THE AMERICAN ARCHITECT AND BUILDING NEWS.

Copyright, 1876, JAMES R. OSGOOD & Co.

BOSTON, DECEMBER 30, 1876.

In closing the first volume of the American Architect and Building News, we wish to make cordial acknowledgment of the reception and help that has been given us. The press has met our appearance with a courteous welcome which has given us great encouragement; and the hearty interest which the architectural profession has shown in our success has been a most efficient support. It is a matter of time to give such a paper as ours its full scope; to get all its machinery into efficiency; to form all the connections, and secure all the co-operation, that are necessary to give it the completeness that we desire. The fact that it is an undertaking of a kind new in our community, has made it a more difficult and a slower task to fully organize and shape it. There are still many things which we wish to do in order to increase its range and usefulness; and for these we invite the co-operation of all who are interested in our paper or in the subjects of which it treats. We wish to give as much as possible of the important building-news of the country, and shall be thankful to any one who will help us with items of interest. A few lines written, or a newspaper slip, will often bring things to our notice which would otherwise escape us; and we like to have our communications as widely extended as possible. Our paper may also be useful as a means of inter-communication among architects, and those who work with them. We should be glad to have questions and problems which occur in architectural practice or in the building-trades stated in our columns, in the hope that readers who are wiser than we may be tempted to answer them. Our subscribers will be benefited by accounts of devices, appliances, or materials that any of our friends have found useful in their work, or think important, or by any records of unusual or significant experience in practice. We appeal as well to workers in decorative arts, and to constructors and mechanics, as to architects, for the results of their study and experience, or for the statement of facts or problems that interest them.

To all who favor us with contributions we would suggest that as our space is not great, and we wish to make our paper as comprehensive as possible, it is important to study conciseness. We would remind them of the rule that copy for the printer should be written on only one side of each leaf, and of the necessity of writing proper names, which it is often not easy to verify, and technical terms, with the greatest distinctness. We must remind our correspondents also that it is our settled principle to banish personalities from our paper. We shall expect to make and to receive plain criticism of works, principles, and opinions, and to open our columns widely to discussion of the questions which are appropriate to them. We shall not allow to ourselves, or expect from our contributors, expressions of personal annoyance, or imputations of bad faith or unworthy motives

in controversy, but shall assume that where opinions are in dispute they are to be settled or discussed upon their own merits, and not upon those of their advocates. Drawings sent for illustration should be in pen and ink, clearly drawn; the lines should be neither coarse nor crowded, for either of these characteristics is likely to be exaggerated in the reproduction. We find it necessary to arrange our illustrations some time in advance of publication, and therefore those who favor us with them should not be surprised if they do not appear immediately: it is desirable to keep the drawings till they are published, so that if the first plate should prove faulty another may be prepared. We make special request that those who send designs for buildings will not fail to furnish plans, and when possible sections, with their exteriors. The lack of any explanation of the interior arrangement of a design detracts greatly from its interest, and often indeed subjects it to misinterpretation by leaving its motive unexplained. We especially invite drawings of architectural or constructive detail, and of decorative work, of which we hope to provide in future a greater proportion than we have been able to thus far.

ONE decisive official action of which we have heard as a result of the Brooklyn disaster is that of the inspector of buildings in Boston, who after examining the theatres in that city has ordered such precautions to be taken at once as he thought practicable. All the curtain-openings are to be furnished with curtains of wire netting, and outer curtains of cloth made incombustible as far as may be; and all wooden proscenium walls are to be covered next the stage with fireproof sheathing. Sprinklers are to be fixed over the proseenium arches and over the stage; the theatres are required to have a high-service water-supply, to light their gas by electricity, and to have a telegraphic connection with the nearest fire-engine station. These for general provisions: to them we should have liked to see added the requirement, which may really have been understood, that the wire curtain should be let down at the close of every performance, and that the lofts above the stage and auditorium should be cut off from each other. Special requisitions have been made which will demand among the various theatres six fireescapes from the upper galleries; four new stairways, the re-opening of one old one, and the enlarging of seven others; four new passageways; one wooden ceiling and two floors protected against fire; and the alteration of the parquet of one theatre. This accomplished, attention will be turned to other places of public assembly. The amelioration of the theatres and halls that are already built being secured, it is to be hoped that pains will be taken to control efficiently the plans and construction of those that may be built hereafter, either by municipal enactments, or, what is perhaps better, by general State building-laws, of which the example has been set in Ohio.

A CATALOGUE of the Illinois Industrial University which we have received gives an attractive showing of the course of instruction that is laid out there for students of architecture and kindred pursuits. The university "founded by the State and endowed by the nation," as its catalogue says, is in some respects unusually well provided, having a good collection of casts and models of constructive architectural and decorative work, and a series of workshops for carpenter's and machine work. Special pains seems to be taken to unite practical knowledge of mechanical work, as far as it may be gained in a school course, with the technical instruction of a higher kind. There are something like four hundred students, divided among various scientific courses, and technical courses in various branches of engineering and in

The architectural students last year were architecture. fifteen, including one woman. We notice a special course of a single year, called a builder's course, which includes drawing, constructive and architectural, studies in wood construction and stair-building, in estimating, and in architectural designing. This last strikes us as being under the circumstances an addition of questionable usefulness, considering that it is found in only one term of a one-year's course. The architectural course is very comprehensive and exceedingly well arranged. It covers four years of study, and is wisely guarded by allowing no student more than three studies at once. One feels some doubt, however, whether even four years can be sufficient for the amount of work that is laid out. It is of course a labor of considerable time to bring such a school up to full efficiency; but if it is found practicable to make it as effective in its working as it is able in its planning, it will be a valuable means of professional education. One point in it that we notice with pleasure is the prominence given to exercises in modelling, which seem to us of great importance in securing a really exact and useful knowledge of ornamental forms. On the other hand, the space allotted to architectural designing seems quite insufficient: it is only introduced in two terms of the last year of the course. Indeed, we may say that the technical element seems on the whole to predominate a little too much over the artistic. We are glad to believe that the buildings of the university, which are rudely illustrated in the catalogue, are not representative of the design that is inculcated in its instruction. And we may repeat the hope once before expressed, that now that we have four architectural schools well established in the country, which are enough for our needs, whatever effort is made for architectural education may be given to making these as perfect as possible, rather than to adding to their number.

THE Boston Chapter of the American Institute of Architeets has taken a step in a good direction by arranging for a series of prizes to be given for works of original design, to various classes of what in the slang of the day it is customary to call art-workmen. The first prize offered is one of fifty dollars, to modellers and ornamental sculptors, for the best plaster model or wood-carving of a frieze ornament. The models are to be submitted to the Chapter for their award at their February meeting, and will afterwards be exhibited in the hall of the Boston Museum of Fine Arts. The object is, of course, to encourage independent skill in design among the workmen of the various decorative arts. It is desirable not only for the sake of stimulating design and artistic feeling among a class of men the success of whose work depends upon it, but also as an earnest of the interest which architects should take, and do take, in the progress of those who work with and for them. The success of architecture and the decorative arts must depend now, as it has in the best days of art, upon unity and common interest among the men of all vocations who are concerned in them, - architects, sculptors, carvers, decorators, metalworkers, and mechanics who work with them. The prize, if it is found to arouse sufficient interest and effort, will be followed by others offered to workmen in different branches of decorative art; and if the movement proves to forward a community of interest and mutual confidence between architects and workmen, it will perhaps be even more helpful in this way than as a mere premium for excellence.

We have already noticed the late competition for the Leeds Public Offices, which seemed to promise to be exceptionally well conducted and satisfactory, because the decision was to be intrusted to a professional referee chosen by the competitors themselves. The referee selected by the competitors was unable to serve; but the substitute chosen, Mr. Cock-

erell, was an unexceptionable one. Unluckily it too often happens that an experiment which promises to introduce a valuable reform is brought to nought and discredited by the way in which it is carried on. It would probably have puzzled any of our readers to guess what device the Leeds committee would adopt to make their employment of a referee as nearly nugatory as possible. What they did was to select from the twenty-four designs sent in eight, which they laid before Mr. Cockerell for his adjudication, keeping the rest out of his way. The obvious reason was a determination to prevent the architect from selecting any design which the committee did not like; and it amounted to a confession that after all they had more confidence in their own judgment than in his. There is, as the Architect says, "something inexplicable in the committee's competency for the task of selecting the eight worthiest designs of the entire twenty-four, yet shrinking from that of deciding which were the best three designs of the selected eight." They had however promised that the referee should select three plans for the three prizes; and from this promise they could not go back. The utmost control they could exercise over his choice was in limiting it to as small a range as they could. Mr. Cockerell expressed in a mild way "some regret that the instruction precluded his examining the whole of the designs sent in, as the considerable distance between the design which he had placed first and the others led him to surmise that a closer approximation of merit might possibly have been found." In other words, Mr. Cockerell did not at all believe that the committee had given him the best eight designs to select from. We cannot help wondering that under the circumstances he did not altogether refuse to act.

The committee appear to have been caught, as committees are apt to be, by the charms of the elaborate perspective drawings that were set before them, at least if we may judge by the somewhat detailed criticism of the designs which appears in the Architect. We notice that except the design to which the first prize was awarded, not one of those which the Architect selects for special commendation is to be found among the eight chosen by the committee; nor has M. Cockerell, on the other hand, much to say for any of the eight except the first: it seems therefore not unlikely that the author of this might have failed of his place among the eligible eight if the merits of his design had not been seconded by the special attractiveness of his drawings. A notable characteristic of the competition was that most of the designs were classic, and only one of them Gothic. This is due in part, no doubt, to the proximity of the new Town Hall, which is of classic descent; but it also is symptomatic of the weakening of the Gothic revival. A short time ago such a thing could not have happened in an English competition. The design which Mr. Cockerell recommends for execution - by Mr. Corson - is thus described in the Architect: "The main front consists of an arcaded principal floor on a low rusticated podium (pierced with small basement windows), and surmounted with a tall attic crowned with a parapet, whose piers are charged with vases, moulded balusters being introduced at the flanking pavilions. The principal floor windows are placed within a Corinthian order, disposed as a projecting centre, containing a decastyle portico or porch in antis, and, with the interposition of a retreating wing, a projecting tetrastyle colonnade in antis (double antæ) at each flanking pavilion.'

FIRE-PROOF CONSTRUCTION IN THEATRES.

WE spoke in our last number of some of the precautions which are proposed for staying or extinguishing fires in theatres. We have already suggested what seemed to us important points in planning the communications and outlets for the security of audiences: it now remains to say a word

concerning the method of construction that may be or ought to be adopted for the same end.

The place where fires in a theatre are most likely to begin is the stage. Hence it is in regard to fires on the stage that the chief precautions are called for, though since fires in other parts of the building are still likely to occur, they must not be neglected in the provision. The first safeguard is a solid wall of masonry between the stage and auditorium. Without this all other precautions are nugatory: a fire fairly in possession of the stage will burn its way into the auditorium almost in an instant. The wall should absolutely separate the two portions of the building except for the proscenium openings. It is not enough that it should rise above the arch; but it should close the loft above the stage, and be carried above the roof in a fire-parapet. It is commonly required wherever strict building-laws prevail; and in France at least, only two openings are allowed in it besides the curtainopenings, - one below the stage, for the entrance of the musicians into the orchestra; and one above the arch, to allow the needful communication with the garret over the auditorium, which last must be kept closed by an iron door. Nevertheless, in the new opera-house at Paris, which is built of thoroughly incombustible material, there are doors of communication on the level of the first tier. If such doors are allowed they should be of iron, and should open on corridors of some length, say the depth of the stage-boxes, vaulted in brick, and containing nothing combustible. To give due effect to the wall, the stage-boxes should themselves be enclosed in brick walls, and their fronts as well as the soffit of the proscenium arch should be furred in brick or iron, and finished only in plaster. Against the flanks of this wall on each side and behind the stage-boxes, there should be ample staircases leading directly to outer doors at their feet, to serve in cases where fire occurs in the front of the theatre or away from the stage; and it ought not to be lawful to build a theatre on a site which does not admit of this. Even when the fire occurred upon the stage, if these stairs were built of iron and in fire-proof wells, as they ought to be, it would be a long time before they would become impassable.

The principle of subdivision by fire-proof walls, which is the recognized principle of security in all constructions, ought to be carried further by making the encircling walls of the auditorium and of the box corridors of brick; and also by enclosing the stairways in brick wells, except the grand stairway at the back of the auditorium, when there is one, which from its position, and because of its office as the principal ornamental feature of the interior, it is desirable to have displayed. In this case, however, it ought to be of iron or otherwise fire-proof. The fire-proofing of the other stairs need not be a very expensive matter, and ought to be insisted on wherever a large audience is to be provided for. In like manner it should be seen to that the dressing-rooms provided for the actors are not the combustible boxes that they usually are. Here is a point where the temptation to economize is very great; and it is common to make these dressing-rooms, of which there must be many, a series of slightly built pigeon-holes piled high on the sides of the stage, and communicating only with the slight wooden galleries from which the side scenery and flies are manipulated. From this it too often happens that some of the actors are cut off in their rooms, and burned before they can make their way out. The rooms ought to be separated from the stage by a good brick wall; and since they are small and closely compacted, very slight partitions of brick between them, or even between successive pairs or threes, will be sufficient, and will not add greatly to the expense of the theatre. Where it is practicable of course they should have their doors and corridors away from the stage, but this it is sometimes difficult to arrange; and when they open on the stage galleries, these should be framed of iron and of con-

siderable width, say five or six feet. The stairs leading to them have even more need to be protected and fire-proofed than those of the auditorium, since they are more exposed.

Since the great danger is of fire extending to the auditorium from the stage, the chief attention has been directed to the communication between the two; and we will recur to it again for a moment. Not only is there every opportunity for fire to spread through the curtain-opening and commonly through or over the proscenium wall, but there is every inducement for it. If any ventilation is provided for the house, it is through the ceiling of the auditorium. The air in the auditorium is warmed, and that on the stage is usually not so. Whoever has occupied orchestra-seats at winter performances on cold nights is likely to have felt the draught of cold air from the stage; and most people can remember seeing the breath of the actors in the frosty air. When fire takes among the scenery, the first effect is likely to be that the current of air carries smoke and flame out through the arch into the auditorium and toward the openings in the centre of its roof. The audience is endangered and terrified; a strong draught once established, the proscenium wall, the roof and the galleries, take fire if they can; and, doors being opened below which increase the draught, a very few minutes are enough for the destruction of an ordinary theatre, and perhaps its audience. It is to meet this danger that the metallic curtains are insisted on, - sheet iron, or, as is now proposed, wire gauze with a woollen curtain in front of it to prevent the rush of smoke into the auditorium.

Another preventive is to provide a direct escape for the flames above the stage by a ventilator or by a scuttle, or a dome divided in halves, that may be opened when there is fire. An ingenious suggestion is that of placing a skylight of thin glass in a wooden sash, over the stage, where it would be immediately broken by the heat of the flames, and give vent for them, establishing an upward draught away from the curtain and out from the auditorium. Such a skylight might expose the theatre to risk from the burning of adjoining buildings; and to meet this risk it has been proposed to cover it with a metallic cowl, which would defend it from sparks and brands, but leave a vent for flame and smoke. How the converse danger of setting fire to the surrounding buildings by the flames from the skylight is to be guarded against, is a different question.

But these precautions are at best of uncertain efficacy, and in no wise take the place of the leading defence, which is found in having every thing that adjoins the proscenium in front of incombustible material. Not only the dividing wall and proscenium arch should be so, and the stage-boxes, as we have said, but the galleries, or at least the ends of them next the curtain and for some little distance from it, and the ceiling above. The galleries may be framed in iron, and finished in plaster; and the ceiling of the auditorium may be of plaster in iron framing, or entirely of metal. Perhaps the metallic bowl which covers the salle of the new French opera-house, and is hung from the roof, is the safest thing that has yet been devised. Here is a legitimate opening for the workers of galvanized iron and other sheet metal, and one which we should think the manufacturers might make haste to occupy. Of American theatres, the best prepared in these respects that we know of is the Boston Theatre. Not only is there a solid stage wall of brick, and the walls of the stage-boxes of the same, but the proscenium arch and the fronts of the boxes are of plaster upon iron lathing, and the half of the ceiling next the stage of the same, while the fronts of the galleries are filled in solidly with plaster, to prevent the woodwork taking fire. One dangerous means of spreading a fire is the floor of the stage itself. This is full of trap-doors, and must be of wood, so that the carpenters may at any time make new traps or other openings in it wherever they please. The space under it is constantly in use during

the performances, and is full of a great variety of combustible material. It is therefore important that it shall be cut off as completely as possible, by carrying up the stage wall under it close against the floor-boarding; and in this wall there should be only one opening, - that through which the musicians get to their places in the orchestra. The part of the stage in front of the curtain needs no traps or openings, except one for the prompter's box, and may therefore very well be fire-proof. In the Boston Theatre this part of the floor is vaulted in brick, leaving no wood by which fire can be communicated, but one thickness of floor-boards resting on the masonry. Iron staircases, and iron doors of communication between the different sections of the house, will naturally suggest themselves, and are things not to be neglected; though there is great likelihood that the iron doors will be found either shut when they should be open, or open when they should be shut. A fire-proof floor to the auditorium is a thing to be expected in a thoroughly well built theatre; and when the space below it is to be used, which should not be allowed, - it is an essential precaution.

For the improvement of existing theatres we shall have to be content, probably, with a small portion of the provisions we have suggested, or with such makeshift substitutes as can be devised for those which it is impracticable to secure. But for new theatres it is essential that the plans and construction be subjected to a rigid oversight, and that at least the chief means of security that we have alluded to in this and previous articles be insisted on, - an unobstructed exterior; numerous outlets with doors swinging outward; communications so arranged as to subdivide the audience, and separate staircases increasing in number instead of diminishing for those in the upper parts of the house, all enclosed in brick wells, and at least those to upper galleries fire-proofed in addition; subdivision of the building by brick walls, and especially by a solid wall from the cellar, and above the roof, between stage and auditorium; proscenium and stage-boxes, and gallery fronts, and ceiling of auditorium, all of incombustible material; to which may be added the palliatives of hose, sprinklers, and iron curtains. These are things that will not take care of themselves, and theatre-goers, as we have said, cannot be expected to protect themselves; there is no security for them but in stringent laws stringently enforced.

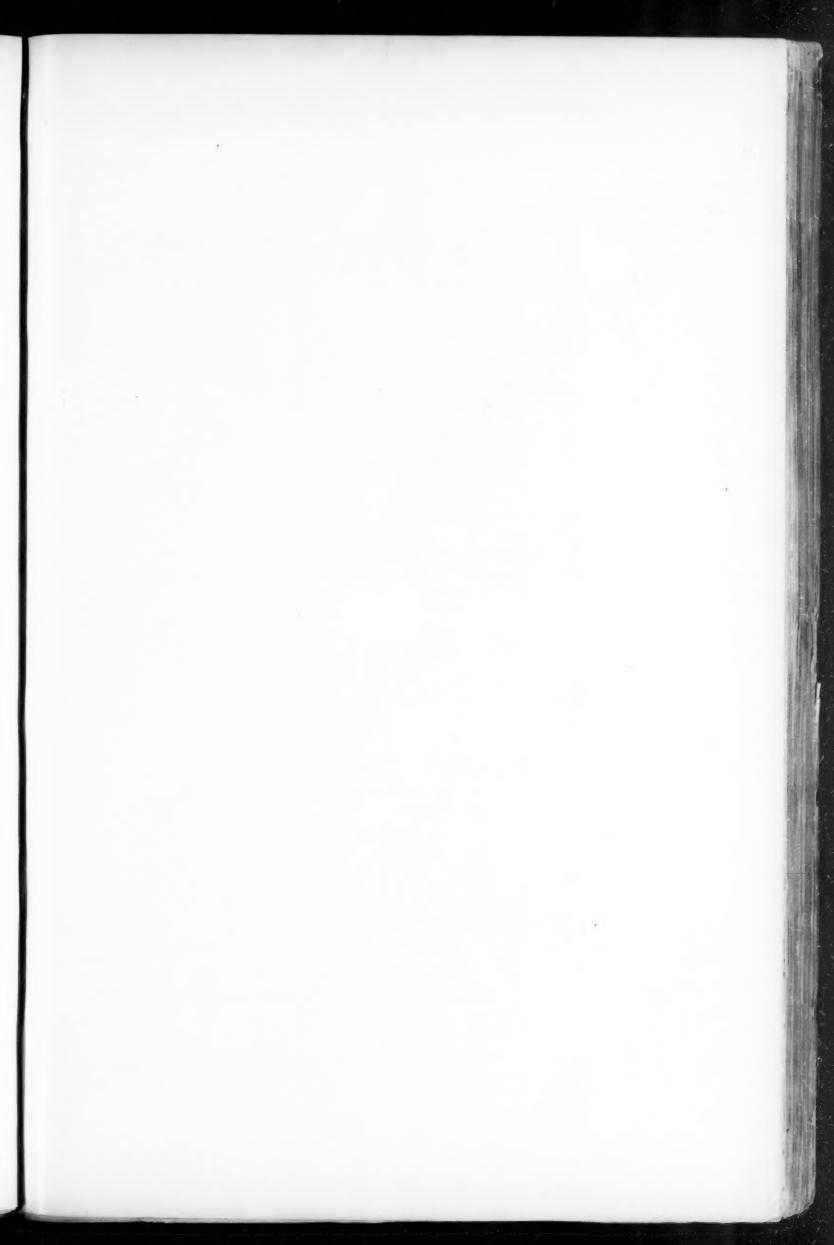
THE MANUFACTURE OF TERRA-COTTA IN CHICAGO.

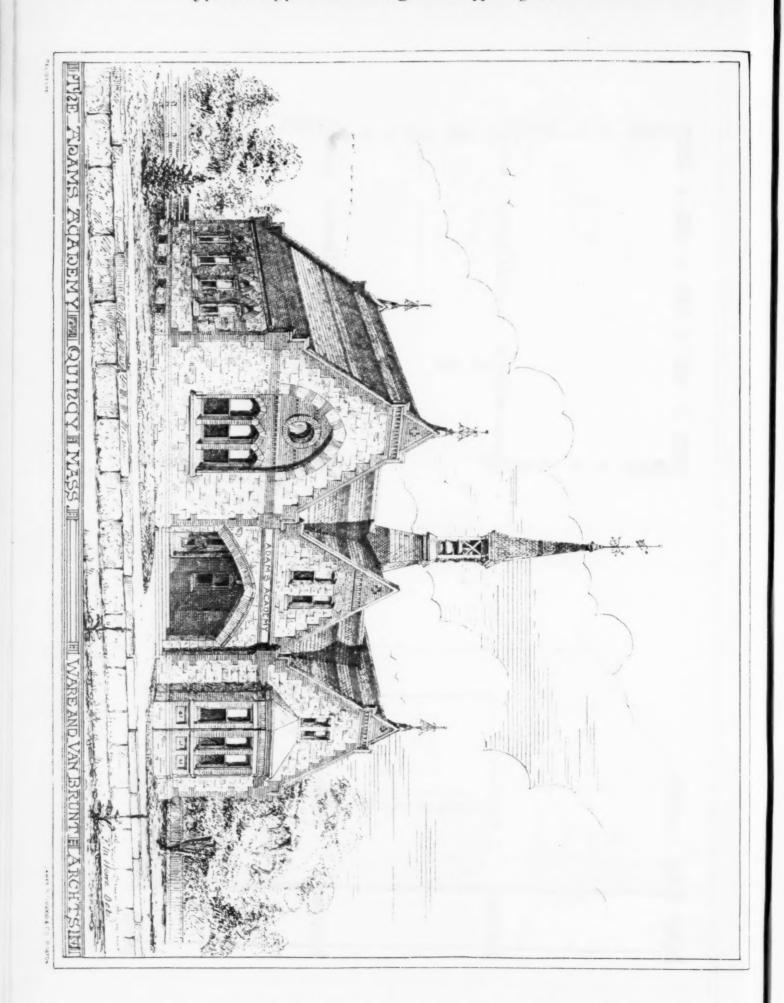
THE manufacture of architectural terra-cotta may safely be considered the most backward of all the arts applied to building in America. This may appear strange considering the enterprise that has been displayed in other directions. But there are good reasons for it. One is that our wealth of natural building-stones. and their great variety, have enabled us to produce in a rigid material and without great cost - for everywhere easy-working stone of some kind can be procured at hand or cheaply transported - those forms which others have been obliged to create in a plastic substance. The German cities in modern times have been foremost in producing terra-cotta, while in extent of production England stands next. In Germany terra-cotta has for a long time been in general use for a great variety of purposes. In buildings it is used as a substitute for stone, and generally employed where the houses are of rough brick stuccoed. The effect is an imitation of stone throughout, and as such the use cannot be considered legitimate. In England, on the contrary, modern terra-cotta has found a legitimate use; and its employment in accordance with its own functions has given it an art value which had not been attained since the days when it was so successfully used in the old Italian cities. The want of a great variety of building-stones has been the cause of its employment in both cases.

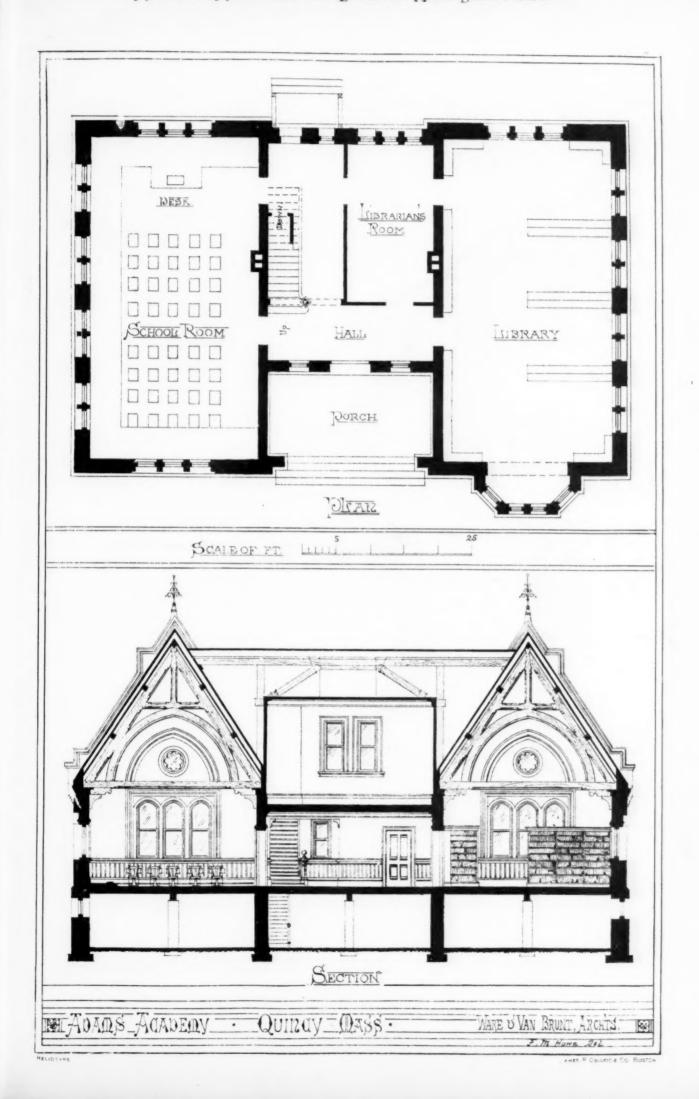
It is remarkable, in view of these facts, that in America the manufacture of plain bricks has been raised to so high a standard. But this high standard has been maintained, not because they are needed as a substitute for stone, but because they are so perfect as to stand in direct competition with it, and in many instances are considered preferable for the most elegant and costly buildings. American terra cotta must therefore bid for favor only in

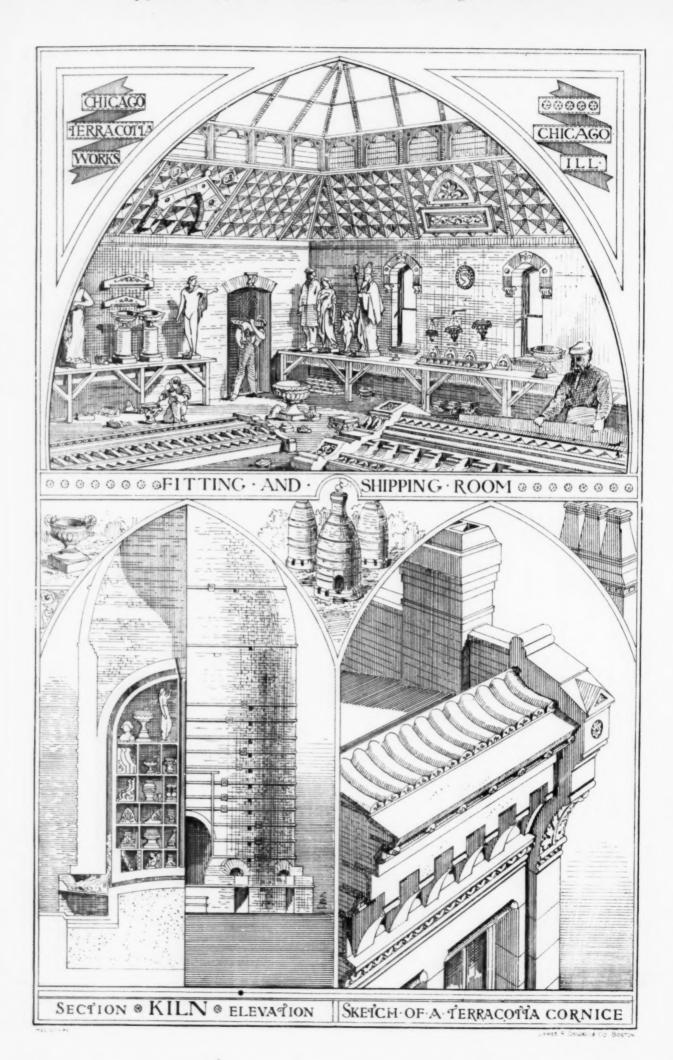
its most perfect form. We do not tolerate crooked lines or varying color in our buildings. Everywhere there is a demand for perfection in the finish of our work, which Europeans often regard with indifference. This old material revived must have something more than its old qualities to commend it to general use, and make its manufacture profitable. Hence we may see another reason why its introduction has been slow. Still another is that most of the attempts that have been made to produce it have been in the direction of imitating stone; and architects of taste and education, not being fully acquainted with its capacities for producing legitimate ornament, and the limitations to which it is subject, have not been inclined to encourage its use. In fact, it has generally been debased by being put to illegitimate purposes, and, as an imitation of stone, has been such a poor substitute as to have been practically useless. The success of the works in Chicago can only be said to date from the time when they began to produce a purely legitimate article, and it had been practically demonstrated that artistic qualities could be developed in buildings almost entirely constructed of a plastic material, freely confessing itself, which qualities could be produced in no other.

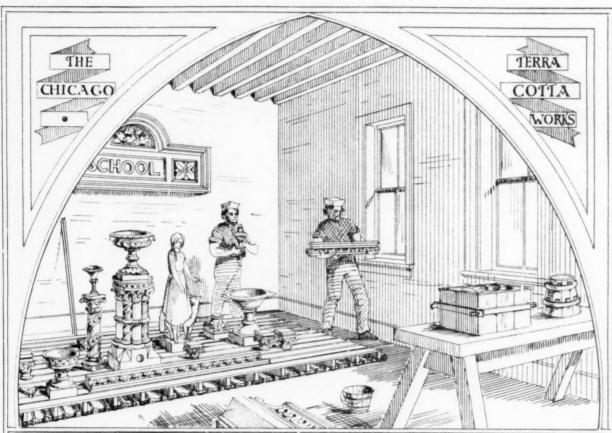
The manufacture of terra-cotta in Chicago was commenced in 1868, by the firm of Hovey & Nichols, who at that time carried on the business of seedsmen and florists. Mr. J. F. Nichols of that firm is entitled to the credit of establishing the works. Becoming interested in the subject through foreign travel, he bought out a pottery which had been established at Indianapolis, by a potter named Wright, for the manufacture of chimney-tops, vases, and building-work in a small way. Mr. Nichols brought to this country Giovanni Mehli, a very skilful modeller, and placed him in charge of that department. But very soon it became evident that Indianapolis was not the best place for the works, and they were accordingly moved to Chicago. The superintendent was J. N. Glover, who moved with the establishment from Indianapolis; and Mr. Mehli continued as modeller. In this capacity he modelled several very fine fountains and some statuary, besides much of the ordinary ornamental building-work. When the works were moved, a Chicago architect, Sanford E. Loring, together with other capitalists, took an interest in them; and a company known as the Chicago Terra-Cotta Company was organized in the fall of 1869. Improved kilns were constructed, and the company prepared for an extensive business, which, besides the making of garden-ornaments, consisted of the manufacture of window caps and dressings, chimney-pots, etc., though these were generally of inferior design. In the spring of 1870 Mr. Loring began to take an active interest in the works. He opened a correspondence with the best manufacturers in Europe, and procured the services of James Taylor as superintendent, Mr. Glover having withdrawn to enter other business. Mr. Taylor had formerly been foreman of Blashfield's Terra-Cotta Works at Stamford, Eng., and had in that capacity superintended the terra-cotta work for Dulwich College Charles Barry, architect. Mr. Mehli continued as modeller until 1872, and under these gentlemen the manufacture was vastly improved. In the spring of 1872, after the great fire, Mr. Loring became president of the company, and has since that time had control of the works. The works were spared by the fire, and were therefore in condition to execute the large amount of work which was ordered in consequence of the rebuilding of the city, though this never equalled the extent of work shipped to other localities. Since the works were established in Chicago the production has amounted to half a million dollars, and has been scattered from Salt Lake to Boston, and from Minnesota to Texas. The best of the work has been done in Chicago. The making of cornices for city buildings was commenced in 1872, and has increased ever since, and is rapidly supplanting the use of galvanized iron. While before 1872 the company was largely engaged in producing cheap and inferior substitutes for stone, it has since that time found a field for the making of more legitimate work. This is due to the energy and artistic appreciation of Mr. Loring, and the encouragement of many of the architects of Chicago, who, after studying the processes of manufacture readily at hand, have learned to adapt the material to proper uses. The homogeneity of terracotta with brickwork has been readily recognized in many instances, heavy projections have been discarded, delicately carved ornament introduced where most effective, and the natural colors of the material preserved. Recently, glazed terra-cotta has been employed for inlays in brick buildings with good effect; and semiglazed cornices have proved effective and durable. The work has stood well wherever care has been taken to prevent moisture from invading hollow cells, and freezing therein. To avoid this all prominent works are set under the eye of a man sent by the com-



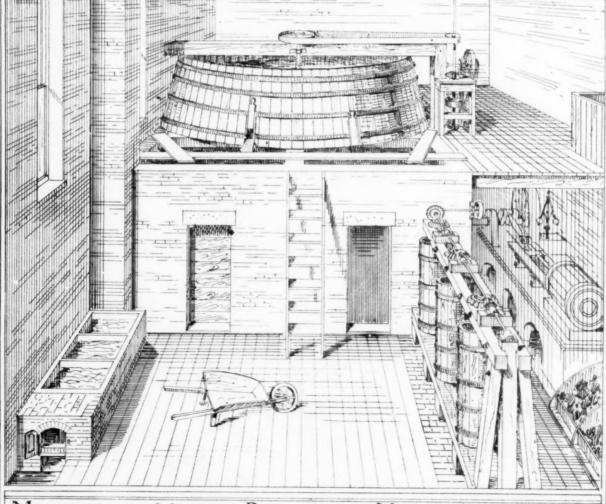








DRYING-ROOM: HEATED-BY-STEAM-COILS : PRESSERS



Machinery for Washing Boiling and Mixing the Clay

Put the second of the second o

pany. The ornamentation now produced is all hand wrought; that is to say, if it is a running or continuous ornament, it is first moulded nearly to the form required, and before baking is all worked over with modelling-tools. The finer kinds of work, such as panellings, tympana, and capitals, are all modelled or carved in semi-dry clay, and baked just as they come from the tools. The modellers lately employed have been James Legge and Isaac E. Scott, both adepts in the modern Gothic school.

Besides architectural work, the company manufacture fire-bricks for their own use, porous tiles for deafening or for ceilings and side-walls, porous blocks for fire-proof columns, porous hollow bricks and flues. Of ornamental work they produce a large variety of garden ornaments, and vases, water-coolers, and pots in great variety, which are thrown on the wheel, and made of red, buff, or black body, —as well as statuary in all the above colors.

Such is an outline only of the history of the first permanent establishment in America for the production of architectural terra-cotta. To recount all the trials, discouragements, and failures incident to such an undertaking, would make a long story of it, and would be not unlike that of other establishments.

We will now give some account of the plant and processes used in their works, which our illustrations will serve in part to explain. The buildings are on the corner of Laslin and Fifteenth Streets, and cover an area of 200 by 130 feet; while the clay-sheds are 40 by 130 and 40 by 65 feet respectively. The body of the terracotta is essentially the same as that used in common earth-The latter is made of pit clay and calcined flints. The flints are necessary to open the ware, speaking technically, and to prevent, or rather regulate, the contraction and too rapid vitrification. In terra-cotta flints are not necessary except for floor-tiling wherein it is essential to produce a close texture in The company use common potter's clay from Brazil, Ind., which in its pure state makes a yellow ware, and with hotter firing makes stoneware. Mixed with the common clay is pulverized terra-cotta, or waste called grit, and pure sand, which tempers the clay on the same principle that ground bricks and sand are essential to the making of all good building-bricks. tempering also regulates the shrinkage, - one of the most important matters to have in view. Experience alone determines the proportions of the ingredients, which are essentially the same as for the composition of the best English terra-cotta. The potter's enemies are lime and iron; and any invasion of the kilns by these substances must be jealously guarded against. The same mixture is used for building-work as for garden-ornaments or chimneys. For the porous body used for fire-proof tiles or bricks, the same material is mixed with sawdust, or other vegetable matter pulverized. This process has been patented by Mr. Loring. For thrown work or statuary, where a fine surface and perfectly uniform color are essential, a boiled slip of pure clay is employed. The red clays used for this purpose come from Northern Indiana, while the black, brown, or drab body is produced by mixing proper proportions of metallic oxides, mostly black oxide of manganese, with either buff or red clay as may be desired.

The process of preparing the clay is as follows: It is first washed in a blunging-tub. This is the large circular tub shown in our illustration, standing on a brick vat. It contains a mixer driven by a belt. Here it is mixed with water to the consistency of cream, a known quantity of clay being used for each mixing. The slip thus formed passes over through a strainer, shown in the side of the tub, onto the floor of the brick receiving-bin. The stones and other impurities remain at the bottom of the tub. As soon as the contents of one tub have been run off, the other constituents of the terra-cotta, proportioned to the amount in the tub, are spread over the deposit. Then another washing takes place; the constituents are spread in the vat, and the process continues until the vat is full, the superfluous water rising to the top. The water is then drawn off, leaving a paste which is allowed to stand as long as possible, sometimes twelve months. when required for use is cut through vertically, and is mixed in the pug-mills, which are shown at the right of the illustration. It is then ready for use, and is passed over to the moulders.

The process of moulding is seen in the upper illustration on the same page. The moulds are made of plaster. To expedite the work, the wet clay is dried over steam-pipes which cover the floor of the drying-room; for it must be as dry as possible before going into the kiln. The work is all burned in muffled kilns. (An elevation and section of one is shown.) The works contain two of these which have now been in use six years. The fire does not touch the contents, but passes under the floor to a clay pipe in the centre, and also between the two inner shells of the kilns to the

opening in the top of the dome. The kilns are respectively sixteen and eighteen feet in diameter outside, and twelve and fourteen inside. They are sixteen feet high inside. There are five fires to each; and the kilns are perforated with numerous trial-holes, so that all parts can be seen from the outside; and trial-pieces placed near the holes can be examined as the firing progresses. Every thing depends upon careful firing by experienced hands. Slow fires are run until all indications of moisture disappear, which last about forty-eight hours. A hot fire is continued for from sixty to eighty hours; and it takes from sixty to eighty hours to cool off sufficiently for the removal of the work. As it takes two days to fill a kiln, the full time for each burning is about ten days.

The work being burned, it is passed to the fitting-shop (also shown in the illustration), where all necessary trimming is done.

It is then ready for use.

Besides the above, the works contain many other buildings. There is a department for red ware, turning, etc. There are mill-rooms for grinding and preparing grit. This requires three processes, — crushing, grinding, and sifting. The boiling of slip for fine ware is shown in one of the illustrations. There is a draughting-room and a modelling-room or studio for preparing models and moulds. There are store-rooms and a show-room besides clay-sheds, coal-sheds, and a fifteen horse power engine. Mr. Loring has recently constructed a small experimental glazing-kiln which is heated by a side draft taken from one of the large kilns.

The company has done much of late in the way of surface treatment with various kinds of glazing. Formerly all the work, however well burned, was slightly porous. Now all porosity, in work for external use, is avoided by the use of glazes varying from dead or flat glaze, which only closes the pores, to a full glaze, as on earthenware bodies. Lead glazing is used, consisting of pure oxide of lead ground in oil with pulverized calcined flint, and applied as a wash before burning. Recently some very good samples of glazed brick have been produced. The lead glazing brings out the natural colors of the clays; and black is produced by black oxide of manganese mixed with a fusible slip clay. Some attempts have been made at producing wall-tiles with carved patterns colored with opaque glazes.

The vignettes in the illustration show a die for stamping tiles, some plain chimney-pots, and specimens of carved spandrel decorations. A perspective view of a cornice made for a store on Washington Street, Chicago, is also given. This cornice has a brown dead glaze, and is relieved with colored rosettes between the brackets.

THE ILLUSTRATIONS.

ADAMS ACADEMY, QUINCY, MASS. MESSRS. WARE AND VAN BRUNT, ARCHITECTS.

(2 Pemberton Square, Boston, Mass.)

JOHN ADAMS, the second President, bequeathed his library to the town of Quincy, and a sum of money for the purpose of erecting a school-building in which Hebrew should be taught. This fund was invested, and in the year 1869 had accumulated to an amount suffiient to warrant the construction of the building illustrated in this number of the American Architect. It is built with Quincy granite, coursed, rough-faced ashlar masonry, with reveals, string-courses and cornices of brick. It includes a large schoolroom on the left of the entrance, and a library on the right, both having steep open-The portion of the building between these two timbered roofs. rooms is occupied by the corridors, and an office with stairs leading to earth-closets in the basement, and to a large apartment in the econd story, which is used in connection with the school. building is heated by steam through radiators under the windows, each radiator receiving fresh air from openings over the basement windows. On the sides opposite the windows are ventilatingshafts opening at top and bottom of each room, and communicating with the central ventilating tunnel. The building is occupied by the town library, and by the foundation school known as the Adams Academy. It was built by Messrs. Clement and Creasy, after the designs and under the superintendence of the architects.

MAKING TERRA-COTTA.

See preceding article.

BOUND VOLUMES OF THE AMERICAN ARCHITECT.

SHORTLY after the close of the year, suitable cloth bindings for the American Architect will be furnished to subscribers, at a price to be fixed hereafter. The publishers will also keep on hand bound volumes of the numbers of the past year.

CORRESPONDENCE.

NEW BUILDINGS IN GLASGOW.

LONDON

In our last notice on some recent buildings in Scotland, reference was made to the enormous rate at which Glasgow has been and is now extending on all sides, and some of the churches in the new suburbs were noticed. But not only is the city stretching out its arms on all sides into the country: its centre, comprising the chief business localities, is being rapidly rebuilt, and that, too, in the most substantial, not to say magnificent, manner. Great blocks of offices, warehouses, and shops, are rising everywhere, while of public or semi-public buildings there are not a few. Many of them are of a high order of architectural merit, while all are more or less imposing from their size, or the material in which they are built. We have already noticed the new Stock Exchange, and next may be mentioned the new Merchants' House in George Square. George Square is probably the largest open space in the city proper, and when its rebuilding is complete will be one of the finest squares in any commercial town we know of. The central space of the square itself is just now in a transition state. It used to be laid out in gardens; it is now to be laid out as an open "place." In it are monuments and statues to the Queen and the late Prince Consort, Sir Walter Scott, Moore, etc. The whole of the western side of the square has been rebuilt, the north-west corner of which is occupied by the New Merchants' House, while the corresponding corner on the south is occupied by The whole side of the square has a large new insurance-office. been arranged on the same design, so as to bring it all into harmony. We believe the insurance-office, which was built first, and from designs by the late Mr. Bryce of Edinburgh, gave the cue to the rest; its general features are carried on to the Merchants' House, though varied here and there to suit the different circum-It is Italian in style, freely treated as regards the Merchants' House, which has a striking tower at the angle of good design, with a certain originality of treatment which is very acceptable; boldly projecting semicircular oriel windows also give great variety to both façades without destroying the general breadth of the design. All the detail seems very good, and carefully worked out. Some large rough blocks are yet to be carved, among which are the corbels under the oriels, which are to be figures of some sort. This house is a most notable addition to the new public buildings, and is a very clever specimen of modern Italian architecture.

Nearly the whole south side of the square is to be occupied by the new post-office, the foundation-stone of which was laid by the Prince of Wales about two months ago. It has been designed in the Palladian style by Mr. Robert Matheson of H. M. Office of Works, Edinburgh. From the published drawing it seems to be in the ordinary vernacular; and, though commonplace enough in its general features and treatment, will probably be effective from its size and the excellent building-material in the stone used at Glasgow. Not far from this the Union Bank is being rebuilt. Though not far enough advanced to judge of its effect, it promises well so far; it also is classical in design.

In St. Enoch's Square an enormous central railway station is being built. The roof is modelled after the style of the St. Pancras station in London, and is not much less in the span. This station is to accommodate the traffic of the City Union Railway and the Glasgow and South-western Railway, and be the terminus of the Midland system in Glasgow. The whole of the east side of the square, as well as several small streets behind it, has been taken down to make room for it; and, though the great iron roof is not yet completed, the station has been partially opened for traffic, and the Midland through expresses from London now run into it.

Of the many new warehouses too numerous to mention, the one in Union Street, from the designs of the late Mr. Alexander Thomson, is probably the most remarkable. It is in that phase of Greek architecture he may be said to have created, and which in all likelihood will die with him. An artist in all he did, this is one of his most artistic productions; even the difficulty of the shops on the street floor, he seems to manage better than most people. This warehouse is exceedingly clever, but very difficult to describe, so utterly unlike is it to our ordinary notions of Greek work. We search in vain for precedents for its windows and doorways, its columns and cornices; yet all is redolent of Greek spirit and Greek art. All its detail of moulding and carving—and there is almost a superabundance of both—is drawn with the firm, free hand of an artist thoroughly at home in what he is doing, quietly reviving in the most original manner the architec-

ture of the Greeks in a modern Scotch town. This has been done before in Edinburgh by Playfair, but never with the force and originality of Thomson, whose works must not only be seen, but studied, to be understood. Truly Scotland lost her most artistic architect, and art in general a most accomplished and cultivated disciple, when "Greek" Thomson, as he was familiarly called, passed away.

But the largest and most important of the new buildings we find in the new Public Hall, or Halls, for there are several grouped together. The need of a thoroughly good hall for concerts and public meetings has long been felt in Glasgow, the old City Hall being totally inadequate to the requirements of the town as it now exists. A company was formed, and a site purchased at the West End. The late Mr. John Cunningham of Liverpool, and Mr. Campbell Douglas of Glasgow, were engaged as architects; and the result is the magnificent pile of buildings now approaching The only mistake seems to have been made in selectcompletion. ing the site, by which a really fine public building is hidden away down a very second-rate street where there happened to be a large lot of vacant ground. Had it been erected, say, on the east side of George Square, it would have held a position worthy of its importance and architectural merit, and of the enterprise which has called it into being: as it is, most of its effect is lost, and it adorns nothing but one side of a narrow street. The site apart, little or no fault can be found with the manner in which the building has been carried out. We understand Mr. Cunningham was selected from his having built the Philharmonic at Liverpool, one of the most successful concert-halls in England; that he made the general design with Mr. Douglas, who, with his partner Mr. Sellars, has carried it out on the spot. It has therefore had no lack of architects. In this case there seems to have been a considerable amount of wisdom in the multitude of counsellors, for it is a credit to all concerned, so far as it has gone. Whether it will fulfil all anticipations as a concert-hall, remains to be seen; but so far as one can judge at present there seems small ground for fear on that The general style of the architecture is Greek, not of the highly artistic Thomsonian type, though the force of his influence is not wanting either, but rather of the better known and more usually practised phase to which we are more accustomed. principal front is composed, in the centre, of a range of Ionic columns set on a high basement, in which are the entrance doorways, and is surmounted by an attic with caryatides. This central block is flanked by wings, which have deep sculptured friezes as their most noteworthy feature. These wings are continued some way down each side, where the fronts are very cleverly broken up to suit the varied requirements of rooms of different sizes, staircases, etc. In these lateral fronts the influence of Mr. Thomson's Greek makes itself felt, and with remarkably good effect too, they being exceedingly well designed throughout. The large public hall placed at the back, and on the upper story, is approached by broad handsome staircases. It is a noble apartment about 190 feet long by 45 feet broad, and is 40 feet high. It is lighted by windows placed high in the side walls, and has a flat, richly ornamented plaster ceiling. No columns intercept the view of the orchestra placed at one end, except a screen of Corinthian columns across a gallery at the opposite end. These seem the only defects in an otherwise fine interior, as they are out of scale with those around, and so would be out of the way, from a utilitarian as well as from an art point of A narrow gallery is also carried along the side walls. It is said to be capable of seating five thousand persons, which seems a large number for its size. On the same floor are two ball-rooms, supper-rooms, corridors for promenading, etc., all communicating en suite; the whole forming a magnificent set of halls admirably planned and arranged. On the ground floor are lesser halls, committee-rooms, and other apartments. The style is very well carried out all through, the detail being of good character, and giving evidence of careful study. What is finished of the plaster ceiling is remarkable for its excellence of design, and delicacy of execution, particularly in one of the ball-rooms. The beams and coffers of the ceiling of the great hall seem rather heavy and deep for the flat ceiling they enrich. Though the interior is far from finishe¹, still the building generally is well advanced, and arrangements for its opening are being talked about. We understand the cost has been somewhere about seventy-five thousand pounds, which cannot be said to be heavy, considering the many requirements, and the great accommodation provided. Glasgow will have every reason to gratulate itself on its new Public Halls, as there will be few finer sets of rooms to be seen anywhere in the kingdom.

Glasgow would be a fine city if the streets were only kept clean, and the drainage carried out to sea, instead of into the River Clyde. A new system of drainage has been talked about, has been designed, and doubtless will be carried out; but the streets are as bad as ever, in spite of all the recent improvements.

THE BROOKLYN DISASTER.

NEW YORK.

THE architects are striving anew - with the hope that the pres ent excitement may be turned to some permanent good - with the problem of how to make a safe place of assemblage. Theatres churches, schools, lecture and concert rooms, are all alike subject to the same visitation of fire and panic. The examination before the fire-marshal into the origin and progress of the fire shows that the building was good enough to pass the scrutiny of the buildinglaws, which is, after all, saying very little in its favor; and it was just such an edifice as ten out of a dozen architects hampered in funds, and controlled by an unwise economy on the part of owners, would have erected. It was not a model affair by any means, little honor is to be given the creator of such a temple of the drama, - but if it had been fairly good and properly controlled, would have served its ends after a manner. The investigations bring out the fact that every thing was done to help on the catastrophe, and nothing to prevent it. The employees swear that no appliances for the extinguishing of fires existed; the owners are as positive that they were there, ready for emergencies: but certain it is, that not a faucet was turned, nor a drop of water spilled upon the fire until the arrival of the firemen, and by that time over three hundred lives had been sacrificed. The crowds escaping used the regular means of entrance and exit; and while additional means of exit from the lower part of the house were thrown open, but few availed themselves of these avenues of escape. This is a fact worthy of note in dealing with the question of means of escape, that a familiar even though more circuitous route will be used in preference to an unfamiliar means of exit. The fatal gallerystair is specially described by the fire-marshal. Speaking of the entry to the staircase at the upper end, he says, "There were no doors hung there. It was simply an opening about six feet wide, with partitions on each side, against which the ends of the seats The stairway was crowded in two places, the largest crowd being heaped up in an angle on the platform opposite the box-office. This was only one flight from the street, and the stairs were unobstructed all the way from that point down."

There is no proof that any attempt was made by firemen, police, or theatre attachés, to rescue these unfortunates; there is no evidence that those connected with the establishment either knew or made any effort to inform themselves whether the gallery had been cleared. Many brave rescuers pushed into the parquet and dresscircle to save life, but up the single gallery-stair none cared or

thought to venture.

The conclusions drawn by the fire-marshal from his very thorough inquest into the matter are significant especially touching the means of exit. Concerning this last he says, "The means of exit from the gallery, while good enough for ordinary purposes, and better than are now furnished in other public buildings in New York and Brooklyn, were not good enough in case of fire or panic. The means of exit from the other parts of the house were good. Had it been otherwise, the loss of life would have been far greater than it is. One witness, who was probably the last man to leave there alive, says the people would not have had time to escape the fury of the flames if there had been two stairs, one on each side of the gallery, instead of one."

The coroner's inquest into the disaster, following close upon that of the marshal, is necessarily much in repetition; but there is much new matter brought out, some of it of interest to architectural readers. Col. Keeney, builder and part owner of the building, testified to an original estimate of \$165,000, and a final cost of \$227,000; the extra expense being for better quality of materials used. Thomas R. Jackson, the architect, described the plan and features of the building as designed by him, reading to the jury quite a long essay on data derived from his experience, and laying down rules which he employed in arranging the interiors of

similar places designed by him.

The members of the New York Chapter of the Institute will take some action at an early day, through their examination committee, looking to the placing of the building-law on a broader That the law as now existent is far from complete, is beyond dispute; and even as it is, the commissioner authorized to administer its provisions proceeds in an undetermined manner to carry out what it seemingly tries to cover. The law was left purposely indefinite, and the administration is as a consequence

vacillating and uncertain. The law needs to be broad enough to cover all cases, and then to have the services of an educated and experienced architect for its carrying out. It was in view of these acknowledged weaknesses in our department of building control, and in the hope that the present was a favorable moment for action, that Mr. Richard M. Hunt, chairman of the New York Chapter A.I.A., directed a calling of the examination committee of the Chapter. This committee, in conjunction with a number of builders, sit as an advisory board with the superintendent of buildings, and are by and through the exercise of these duties more conversant than their fellows with the wants and demerits of this department.

The committee met last Saturday (16th inst.), with Henry Dudley, Napoleon Le Brun, R. M. Hunt, Richard M. Upjohn, and A. J. Bloor, present. The question of how best to improve the construction of theatres, in view of the late calamity, was discussed. It was at first thought advisable to prepare an address to the public, pointing out the faultiness of our present negligent mode of letting things take care of themselves, and suggesting what ought as a minimum scale of precaution to be taken in the case of all public assemblage halls. It was finally concluded to draw out the sense of the committee by taking a recess of a week, giving members time to arrange their individual suggestions, and for consultation, the committee to meet again on the 23d inst. for further discussions. It is the intention to make an effort for a new building-law, or such a widening and systematizing of the present one as to make it more in accordance with what our best architects feel such a code should be.

FALL OF A FLOURING-MILL

ST. LOUIS.

EDITOR AMERICAN ARCHITECT, ETC.

Sir. - Your letter of Dec. 5 received. You wished to know concerning the facts in the case of the falling of a building on Main Street, near Cherry.

We have viewed the premises since the fall, and spoken to our chief of the fire-department, who is a practical builder and expert.

The facts of the case are about as follows: The part that fell was a portion of a row five stories high, exclusive of basement, and was used for milling purposes at the time of the accident; there were four run of stones, and four hominy-mills. The two north stores, next to the extreme north store, were each some 25 feet wide between walls, and about 140 feet deep; the floors or stories were mostly in one compartment each. There was a brick wall between the stores, 18 inches thick, from the basement floor to the topping-out, making it about 80 feet high. This wall was built of brick laid in lime and sand mortar, a great many of the bricks being soft and of an inferior quality; this wall and the side walls were corbelled out for the reception of the joists, some 4 inches, though in places the joists ran into the walls for 1 inch to 2} inches.

The above-mentioned 18-inch brick wall gave way or crushed, letting all the floors down, with the exception of about twenty feet on the west end. The stones were running at the time with only some 4,000 bushels of grain in the house. The mill superintendent told me he has had as high as 14,000 bushels in the house at one time. It is thought that the natural weakness of the wall, combined with the slight jar the machinery gave, caused the accident. Another cause which assisted to weaken the wall was the fact that the building had been used as a pork-packing establishment: the salt from the meat had come in contact with the wall, and softened the exposed brick and mortar to a certain extent. The above are the causes of the accident so far as we know.

Very respectfully,

BARNETT & TAYLOR, Architects.

WEIGHT OF SNOW.

TO THE EDITOR OF THE AMERICAN ARCHITECT.

HAVING a very large roof in course of construction, I have recently had occasion to refresh my memory on the subject of the weight of snow per cubic foot.

Trautwine places the varying weight of snow, according to its dryness, or the extent to which it may have been soaked with rain, within so very wide a compass, that I took occasion to make an experiment to satisfy myself with the snow which fell (much of it mingled with hail and wet with rain) Saturday, Dec. 16.

At six, P.M., there was a coating of compacted wet snow, ice, and hail, a little more than two inches in thickness; and in my opinion a winter roof-load would scarcely ever be met with of greater specific gravity. A portion of this, as it fell, was taken 6" x 6", and found to weigh twenty-four ounces, or thirty-six pounds to the cubic foot. There was a considerable fall of light snow later in the evening.

W. G. Preston.

BOSTON, Dec. 20.

NOTES AND CLIPPINGS.

Estimates for Public Buildings. — The following are among the estimates of the Treasury Department for public buildings: —

The following are the estimates for light-houses, beacons, and fogsignals:—

Cape Elizabeth Light-station, Maine	\$5,000
Isles of Shoals Light-station, New Hampshire	4,000
Day-beacons, Maine, New Hampshire, and Massachusetts	10,000
The 'Whale 'Day beacon, Rhode Island	10,000
Musele-Bed Shoals Light-station, Rhode Island	6,000
Conanicut Light-station, Rhode Island	3,500
Watch Hill Light-station, Rhode Island	4,000
Stratford Beacon, Connecticut	1,500
New London Depot, Connecticut	3,000

RAISING AN IRON ROOF.— The iron roof of the Palmer House in Chicago has lately been raised thirty inches. The roof has a superficial area of 95,800 square feet, and a weight of 7,644,000 pounds. It was lifted in five sections. It took 200 hydraulic jack-screws and 65 men two days to raise each section.

New Court-House. — The Hudson County (N.J.) Board of Free-holders have again decided to purchase the Harrison estate, on the brow of Bergen Hill, for a site for the new court-house. The price to be paid is \$2,000 per lot, or about \$128,000 for the site.

The Statue of Liberty. — M. Bartholdi is reported as having said recently, "Already a hundred and twenty-five villages in France have voted for appropriating various sums, while here the subscription has been open some six months, and little or nothing has been done. I have the arm to the shoulder finished, and have also begun other parts of the statue. I must see how the subscription goes on here: if it progresses rapidly I will return to Europe, and push the work vigorously to completion; if on the contrary the subscription goes slowly, I will only finish the head for the French Exposition of '78." The arm of the statue is to be placed in Madison Square this week.

THE BROOKLYN THEATRE. — It is stated that the Brooklyn Theatre is to be rebuilt.

Salisbury Cathedral. — It is said that the restoration of Salisbury Cathedral in England has cost thus far \$260,500, exclusive of the reredos, the organ, and the choir-screens, which were special gifts. The completion of the work, the restoration of the nave and north porch, will cost, according to Sir Gilbert Scott's estimate, about \$44,000, of which half has been subscribed. The Dean of Salisbury generously gave \$15,000.

A New Dock for Timber. — The new dock of the Surrey Commercial Dock Company, London, opened on the 7th of November, measures 500 feet by 1,500 feet, and has consequently an area of more than 17 acres; the water is 27 feet deep under high water level. The walls are built of concrete blocks weighing one or two tons, dovetailed shaped, and bonded into the concrete backing. The area of the quays immediately surrounding this dock is upwards of twenty-one acres.

SEA-CLAY BRICKS.—A few years since, a hospital was built at Merthyr-Tydfil, Wales, of bricks made from sea-clay and sand, according to the specifications of the architect, who stated that they would "harden like iron." So far from doing this, they have so decayed that they are now "as soft as dumplings," and nails can be driven through them with the greatest ease; and they seem to be so far gone in decay that it will be impossible to cement them over.

A Patriotic Bell. — The large bell in the Cologne Cathedral, made out of captured French cannon, is a failure. The tone being very unpleasant, it could not be used, and was named "the Silent Bell." But now we understand that it has been made to give forth a clear sound at last. The trouble was caused by using too light a clapper, although the original clapper weighed fifteen hundred pounds. A new clapper weighing more than a ton, suspended by leather straps, is now used; and the sound produced by the stroke is deep and clear, and the bell is now called the "Emperor's Bell."

METALLIKON. — This invention consists in the combination of glass and ceramic substances in a very ingenious manner. For instance, stained glass windows can be produced by fixing upon sheets of clear glass, by means of a transparent cement, colored glass or ceramic substances; thus doing away with the disagreeable necessities of frequent "leading." Glass rods, tubes, and prisms can be used in geometric designs, producing by their refraction and interference brilliant and unusual effects.

Working by Electric Light, —The workmen who are employed in preparing the Trocadéro at Paris for the Exposition work after nightfall by the light of electric lights.

Carthage. — A correspondent of the London Times writes of the present condition of Carthage as follows: "The only remains in any way complete are the reservoirs and the aqueduct. The former are in a good state of preservation, and are constructed on a scale of great magnificence. They are calculated to hold a large supply of water. These have all been arched over; but some of the arches are beginning to give way, and have tumbled into the tanks. Round the margin of these pools paths extend, paved with small pieces of polished marble about an inch square. All around may be picked up the fragments of pottery, broken jars, etc., which doubtless have been in use for the carrying of water by the maidens of the city. The aqueduct, constructed of enormous blocks of stone, and extending away towards the direction of Tunis, has in many places given way; but enough remains above ground to enable us to trace it through many miles. It was with regret that I found among the material collected for building-purposes at the town of Zoletta, parts of marble columns with carved work of the most magnificent description, all of which are being broken up to erect some humble steadings."

A SINGULAR DEDICATION. — The King of Siam recently opened a new mint at Bangkok with a singular ceremony. At five, P.M., he repaired to the upper hall, and lighted sacred tapers; and then the priests worshipped for two hours. The next morning he re-lighted the tapers, and a high priest recited the five commands. These are, "Do not kill; do not steal; do not commit adultery; do not speak falsehood; do not drink strong drink." The king sprinkled with sacred water the new mint machinery, and with his finger rubbed flour from a consecrated cake on parts of the machinery.

New Device for Raising Water.—M. Th. Foucault has invented a new apparatus for raising water by means of ammoniacal gas. The machine depends for its operation on the facts that water at 15° C. absorbs 743 times its volume of ammoniacal gas, and gives it off again at 60° C.; that, at 100° C., the tension of the vapor is seven and one-half atmospheres; that petroleum and ammoniacal gas are without action upon each other, and that the same is true of petroleum and water. The apparatus consists substantially of a heater which is partially filled with a strong aqueous solution of ammoniacal gas. This heater is connected by pipe with the upper part of a closed reservoir, the lower part of the reservoir being connected by means of pipe and suitable valves with the stream or well from which, and the tank to which, water is to be raised. The reservoir contains a small quantity of petroleum, which forms a thin stratum on the surface of the water, and serves to keep the ammoniacal gas from contact with it, and, as the inventor expresses it, forms a fluid piston. The operation is as follows: Supposing the reservoir full of water, the temperature of the heater is raised by suitable means; ammoniacal gas is given off, and passes over into the upper part of the reservoir, the stratum or petroleum preventing its being absorbed by the water there. A pressure is thus created in the reservoir, which forces the water there out and up to the tank to be filled. When all the water has been forced out of the reservoir, the heater is cooled by removing the fire and allowing a jet of water from the tank to play on it. The water in the heater, as it cools, re-absorbs the ammoniacal gas from the reservoir, and thus creates a vacuum, which the water from the stream or well rushes up to fill, and thus refills the reservoir. The heater is then again heated, and so on as before. The inventor claims that the consumption of fuel is almost insignificant as compared with that of a steam-pump of the same capacity. The author also describes a modif

Bell-Metal. — A new alloy for bell-metal is proposed, which does not tarnish, is less liable to crack, gives a better sound, and is much lighter in weight, than the alloy usually employed for the purpose. It is prepared as follows: Nickel one pound, and copper six pounds, are melted and cooled. Add zinc one pound, aluminum one-half ounce; melt and cool. Melt again, and finally add one-half ounce quicksilver and six pounds melted copper.

CAVE IN THE JURA MOUNTAINS.—The opening of an enormous grotto at Burgos, in Spain, has been followed by the discovery of a mysterious cavern in France. While workmen were cutting Jura limestone in a quarry near Belfort, they noticed a small hole, and, after widening the opening with their pickaxes, found themselves in a vast cavern, the floor of which was about six feet lower than the orifice. Heaps of human skulls and bones were lying about, although no opening but the one which the workmen had made themselves could be discovered. On one side were beautiful columnar stalagmites, without corresponding stalactites from the roof; they resembled marble mausoleums arranged on steps in a necropolis. Nor was this an undeserved name; for on advancing farther into the interior the explorers remarked a certain systematic arrangement of loose blocks in the shape of dolmens. In these half-natural, half-artificial cavities, whole skulls, thigh and shoulder bones were seen, some of them half imbedded in the stalagmites.

Title-Page. — An unforeseen accident has delayed the preparation of the title-page; but it will be shortly forwarded to our this year's subscribers.

THE AMERICAN ARCHITECT FOR 1877.—The prospectus of the American Architect and Building News for 1877 will be found on page vi. It contains many suggestions as to the future of the paper which will undoubtedly prove very gratifying to its friends and patrons.



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 1.]

BOSTON, SATURDAY, JANUARY 1, 1876.

[PRICE 15 CENTS.

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE. By J. K. Colling. 1 vol.

MEDIÆVAL FOLIAGE. By J. K. Col-

be two volumes by Mr. Colling contain valuable intro-ing cause on the use of Foliage in Art, with a great er of designs illustrating the various modes in which go has been employed by Architects and Decorators ferent ages and nations. In their department these nes are unrivalled.

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

O folio, 31 plates. \$15.00.

Designs for Cabinets, Drawing-Room, Dining-Room, Sitting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by Scott, Street, Colling, and others. I vol. quarto. 64 plates. \$15.00. Contrining designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths,

NOTE-BOOK SKETCHES. Made during a tour in Europe. By Robert Swain Prabody. 1 vol. \$6.00.

folio. \$6.00.

Sketches of Castles, Towers, Spires, Porches, Pilliars, Gargovics, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantons. Drawn and engraved by A. and E. Varin. Heproduced by the Hellotype Process. Ivol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

LIENARD'S DECORATION AND ORNA-mamentation of the Shiestenth Century. By LIENARD. Reproduced by the Hellotyne Process. Upwards of 120 designs, rich in hints to Architects and Decorators. I vol. follo, boards, \$27.00. Haff morocco, cloth sides, \$30.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. 1 vol. square 12mo.

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful, and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he knows just what he wants, to read it before he decides upon his plazs."—New Fork Christiam Advocate.

"It is a reatise on house-huilding. So much good sense

"It is a treatise on house-building. So much good sense and good taste on this all-important subject are not often, to our thinking, embraced within an equal compass. Whether the reader is coing to build, or not, he will enjoy it vastly; and, if he is, he should give it his most diligent attention."

— The Congregationalisi (Boston).

ILLUSTRATED HOMES, By E. C. GARD

KER. I vol. square 12mo. Illustrated. \$2.00. "Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste along with good sense in all that relates to the site, the architecture, and the utilities and adomments, of bouses."—Christian Intelligencer (New York).

* For sale by all Booksellers. Sent postpaid, on receipt of price by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.

S. A. STETSON & CO., 173 Tremont

Breet, Boston.

GAS FITTERS.

Bit, Bronze and Glass Chandeliers; Gas Pipe, and Fitgin all its Branches.

rchitects, Contractors, and Builders farmished with the

ARCHITECTS.

JOS. E. BILLINGS, Architect, 33 School Street, Boston.

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CHARLES D. WOODBERRY,

ARCHITECT.

OFFICE 19 BROAD, CORNER CENTRAL ST., BOSTON. MURAL PAINTER,

John P. Squire & Co. Nash, Spaulding, & Co., Josiah S. Robinson, Proprietors Rowe's Whf.

CHARLES WOODBERRY & SON,

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Charles Woodberry, Charles D. Woodberry,

George A. Woodberry.

Superintendents of Construction and Building Constructors, Architectural Plans, Detail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies, Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

EDWARD HIXON & CO.

IMPORTERS OF

UPHOLSTERY GOODS,

TRIMMINGS, AND LOOKING GLASSES,

AND MANUFACTURERS OF CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

BOSTON.

No. 180 Washington Street,

Fred. Reed, E. Hixon, jun.

(Naw No. 364.)

PAINTS. — CARPENTER, WOODWARD, & MORTON, 99 Milk, corner of Pearl Street, Boston. (ESTABLISHED 1940.)

Manufacturers and Dealers in

PURE WHITE LEAD.

LINSEED OIL, COLORS,

VARNISHES.

AND PAINTERS' SUPPLIES

Careful attention given to orders, and goods will be found as represented.

W. J. McPHERSON, Established A. D.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

A SBESTOS FELTING CO. of New York,

BOILER AND PIPE COVERING ;

also, Roofing Feit, Roof Coating, &c. Office of Eastern Department.

No. 11 PREBRETON SQUARE, Boston,

H. W. SAYRE, SUPP.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS.

Importers of BOOFING PLATES

AND IRON,

USED IN BUILDINGS.

Exclusive Boston Agents for the sale of THE UNION IRON MILLS. Solid WROUGHT IRON BRAMS, and THE "BURDEN BEST" IRON, Tensile Strength 78,000 Bs.

M. W. PEIRCE & CO.,

STEAM AND GAS FITTERS,

AND DEALERS IN

GAS FIXTURES.

12 SUDBURY, and 100 FRIEND STREET, BOSTON.

A RTISTIC FOUNTAINS, &c., &c., made VIOLLET-LE-DUC'S WORKS.

THE HOUSEHOLD ART COMPANY.

158 TREMONT STREET,

BOSTON.

LOCKWOOD, LUMB, & CO.

PLUMBERS.

NO. 10 PROVINCE STREET. BOSTON.

Job Lockwood Wm Lumb, Beni, Brintnall,

BRANCH STORE. 687 TREMONT STREET.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

DOE & HUNNEWELL.

MANUFACTURERS OF

First-Class Furniture, Mantles, Mirrors,

DRAPERIES,

Lace Curtains and Window Shades,

IMPORTERS, JOBBERS, AND RETAILERS OF

Furniture Coverings, Drapery Materials, AND

UPHOLSTERY TRIMMINGS.

Warerooms in Abbott Lawrence Building, adjoining Hotel

198 & 200 TREMONT STREET, BOSTON.

Rich and Unique Furniture designed and m ufactured to order.

FACTORY AT EAST CAMBRIDGE, MASS

Boston Steam and Gas Pipe Works.

BRAMAN, DOW, & CO., MANUFACTURERS AND DEALERS IN

Wronght Iron Steam and Gas Pipe,

BRASS AND IRON FITTINGS,

OF ALL KINDS, FOR STEAM, GAS, AND WATER.

No. 1, 3, and 4 HAYMARKET SQUARE, BOSTON.

A Ten Dollar Book in Size and Style for Nine Dollars.



Vol. I. of our new book,
"Wooders and Brick
"Wooders and Brick
BULDINGS," contains 60
9 x 12 plates of designs
for Cottages, Suburban
and Farm Houses, contains
11,000 and upwards;
also specifications and
details. Sent to any address, free by mail or express, on receipt of price
18. Illustrated Catalogue

A. J. BICKNELL & CO.,

THE STORY OF A HOUSE. Illustrated by the Author. Translated by GEORGE M. TOWLE. 1 vol. 8vo. beveled boards, red edges, \$5.00.

"The basis of the story is the building of a château on the true principles of architecture. The chief characters are M and Mme. Gaudalau; their newly married daughter, for whom a new château is to be built during her absence on the wedding tour; their son Paul, aged sixteen; and a cousin Eugene, who is an architect. Their practical assistant is Master Branchu, a shrewd builder's foreman, or small contractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical questions and objections which puzzie his architect. Another prominent character is Monsieur Durosay, a friend of the family, who has read and it ravelled much, and knows a little of every thing. He has been his own architect, and has built a very costly house which has fallen to pieces; his own engineer, and made impracticable roads on his own estate; and he likes to consider himself an infallible judge in matters of all kinds; he has theories, and is a confident critic on all subjects. whom a new château is to be built during her ab

on all subjects.

"With such varied characters for his mouthpieces, the s thor is able to lend fresh attractions to the study of his beautiful art, to point out the difficulties and prejudices and misunderstandings to which architects are exposed, to discuss his pet theories, and impress his favorite rules, without suspicion of egotism; and all this through the medium of piquant conversations, by which the reader is so well enter-tained that he forgets he is being instructed. The unpretentious earnestness, simple wisdom, and sound practical tentions earnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic illustrations prepared by the same master hand, make this latest work of Monsieur Violitei-le-Duc the most attractive text-book of architecture that has ever come under our notice."—American Builder (New York).

*. For sale by Booksellers. Sent postpaid, on receipt of Average Daily Circulation 117,000.

JAMES B. OSGOOD & CO., BOSTON

ANNALS OF A FORTRESS. Translated by Berjamin Bucknall, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

"M. Viollet-le-Due is an accomplished architect, an able military engineer, and an ingenious and fascinating writer. His "Story of a House" displayed his taste in the first capacities of the control of a control of the control of the control of a verticable narrative, or more properly, perhaps, of a scientific review." — Boston Congregationalist.

"Those who read the book through carefully, by the help of the beautiful illustrations with which it is tayishly embellished, will not only obtain an excellent idea of the spirit of mediaval architecture, but a better knowledge of the art of fortification from the earliest ages up to recent times than could be found in any other way short of the research and saudy which the author has himself given to the matter. M. Viollet-le-Dut is master of the subject, and imparts his learning in a thoroughly fascinating manner." — Seturday Review (London).

"He has made of his history of the art of fortification at once a valuable hand-book and a very charming romance; a work that combines anusement with instruction in a very rare degree. — Pall Mall Gasette.

"One of the most charming, and at the same time practi-al, books of modern times, devoted to military science."— Irmy and Nasy Journal.

DISCOURSES ON ARCHITECTURE. — Translated, with an Introductory Essay, by HENRY Van BRENT, Fellow American Institute of Architects. Ful-ly illustrated. 1 vol. royal 8vo., #8.00.

VAN BREET, Fellow American Institute of Architectas. Fully illustrated. I vol. royal 8vo., \$8.00.

"We have no hesitation in saying deliberately, and without qualification, that no work of any thing like equal value to American architects has ever been published in this country,—none from the study of which they and all lowers of art may derive so many, so durable, and so important lessons for the elevation and perfection of their art.

"Those who are engaged in the study of architecture as amateurs, and those who are practising it as a profession, or who are preparing to do so, will gather an intelligent kies of the scope of this suggestive of upon in the ten discourses which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as a follows which compose this stately volume. They are as a follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose this stately volume. They are as follows which compose the state of the state of

THE PEERLESS FURNACE.

CHAPEL STATION, BROOKLINE, Dec. 3, 1875.

MESSES. PRATT & WENTWORTH, -I don't think it neces sary to overpraise a good thing; but, when one enjoys great comfort, it is well to be grateful.

Onr neighbors with new furnaces have been restricted to ne room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other rooms.

We have been without double windows, and no storm strips, all our rooms, closets, drawers, warm; and the lowest te perature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful: and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations. A. A. HAYES. Truly yours,

117,000 CIRCULATION.

THE BOSTON HERALD.

DAILY AND SUNDAY.

SUNDAY, 53,000.

The Great Popular Newspaper of New England. WIDE AWAKE,

SPICY,

INTERESTING.

READABLE,

RACY,

RELIABLE.

INDEPENDENT IN EVERY THING. NEUTRAL IN NOTHING.

The best and cheapest advertising medium in the country. Twice the circulation for less than half the money charged

by any other advertising medium.

Estimates furnished and all information given upon appli-

R. M. PULSIFER & CO. PROPRIETORS AND PUBLISHERS, 241 Washington Street, Bosto

FIRE PROOF IRON COLUMNS.

FIRE PROTECTION

FOR ALL KINDS OF

Cast and Wrought Iron Columns.

These columns, when covered with porous fire clay tiles and Portland cement, admit of the most perfect external finish, either with Parian cement, polished, or with scagliols.

They may have caps and decorations of terra cotta, plaster, r Carton Pierre, and can also be finlahed with a smooth hard cement exterior resembling rubbed sandstone, or can be painted. If wood protection is used, they may be finished with moulded or carved woodwork.

The value of our process is proved by actual tests.

The use of our method of fire-proofing and decorating iron columns enables those employing iron for this purpose to dispense with all superfluous metal over and above what is necessary for stability, and thus reduces the cost of large columns below that of plain iron.

For full particulars, diagrams, and circulars, address,

DRAKE & WIGHT, PATENTERS, 145 Clark Street, Chicago.

THE NEW ENGLAND CABINET THE ORGAN.

Boston, Dec. 9, 1872.
I consider the Cabinet Organs manufactured by the New England Organ Company fully equal in tone, mechanism, and appearance, to those produced in any establishment in the country; and would call attention to the "soft register," or Dulciana, as being uncommonly delicate and refined.

JOHN A. WILLOX, Mus. Dec.

Illustrated Catalogues sent free.

& differen

NEW ENGLAND ORGAN CO.,

1299 Washington Street,

BOSTON, MASS.

BURNETT'S FLAVORING EXTRACTS.

The superiority of these extracts consists in their perfect purity and great strength. They are warranted free from the polsonous oils and acids which enter into the composition of many of the factitious fruit flavors now in the market. They are not only true to their names, but are prepared from fruits of the best quality, and are so highly concentrated that a comparatively small quantity only need be used.

RAPHAEL PICTURES. RAPHAEL PICTURES. A Series of Raphael. With Historical and Critical Notes by M. T. B. Ementi-David, member of the Institute of France. This volume contains twenty-four Plates, reproduced in far-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family "(two groups," The Madonna of the Fish, and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON. A Series



170 TREMONT STREET.

BOSTON.

have one of the largest stocks Plain, Encaustic, and Art Tiles, in the country, and solicit contracts for Tile work in Dwellings and Public Buildings, Hearths, Fireplace Linings, Vestibules, Halls, Bank Floors.

C. A. WELLINGTON.

POTTIER & STYMUS

MANUFACTURING COMPANY.

LEXINGTON AVENUE, 41st AND 42D STREETS,

NEW YORK.

NEWEST DESIGNS OF

Hardwood work, Furniture, Upholstery and Decorators.

ART FURNISHING COMPANY, Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING.

IRON CASTINGS.

IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY,

WEATHER VANEA.

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send for Catalogue.

BUBIER & COMPANY,

118 MILE STREET, BOSTON.

PNGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a frech of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Delan," In the Res. "The Monarch of the Clean," "In the Res. "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty, Quarto. Price, \$10.00.

HELIOTYPE CARDS.

This card is a specimen of the work executed by the

HELIOTYPE RELIEF

PROCESS, by JAMES R. OSGOOD & Co.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advertisements, printed circulars, &c. The accompanying design is an example of such a plate engraved by the Relief Process. Artisans of all descriptions, and especially those who manufacture or deal in House



hold Furniture, Ornamental Goods of any description used for Interior Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND

BUILDING NEWS,

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS.

and furnish any required number of cuts by the Heliotype Relief

JAMES R. OSGOOD & Co.,

PORTLAND STONE WARE CO.,

MANUFACTURERS OF



AND ALL KINDS OF TERRA COTTA WARE.

MADE TO ORDER.

THE PROVIDENCE WATER WORKS have the past summe tested Sewer Pipes from different manufactories, resulting in the PORTLAND standing far ahead of all other American

SEND FOR CIRCULAR.

OFFICE 50 KILDY STREET, DEPOT 400 FEDERAL STREET, BOSTON, MASS.

GEO. C. DUNNE,

General Agent

511 Washington Street, Boston

OFFER FOR SALE

BRONZE DECORATIVE STATUARY,

WITH PEDESTALS.

PARLOR CLOCKS,

AND

FIRE BRICK, CHIMNEY TOPS, VENTILATING FLUES Mantel Furnishing Sets,

BRASS ORNAMENTAL ARTICLES.

with subjects from antique and modern art for Interior Dec-

Rare Porcelain and Parian Goods.

POSCHI'S ENGRAVINGS. From Frescos

by Correspoto and Parmentano. Reproduced by the Hellotype Process from the "Gray Collection of Engravings." Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha. Saint Lacia, and Saint Apollonia. Two Deacons, and Saint George. Of Correggio's Freecos, it includes the Madonna della Scala, Diana in a Chariot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, \$10.00.

JAMES B. OSGOOD & CO., Boston.

JAMES R. OSGOOD & CO., Boston.

BIGELOW, KENNARD, & CO., THE BOOK OF AMERICAN INTERIORS.

BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking interiors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and easays on the Library and Dining-Room. Quarto. \$10.00.

HELIOTYPES OF

HELIOTYPES OF

Library of H. W. Longfellow, Esq., Cambridge, Mass.

Dining-Room of Dr. J. R. Chadwick, Boston.

Library of Donald G. Mitchell, Esq., West Haven, Conn.

Library of Donald G. Mitchell, Esq., West Haven, Conn.

Library of Dr. Theo. F. Breck, Springfield, Mass.

Dining-Room of Borye Ward Nichols, Esq., Cincinnati.

Great Hall of Major Rathbone, San Francisco.

Library of George B. Chase, Esq., Boston,

Dining-Room of Hon. J. V. L. Pruyn, Albany, N.Y.

China-Room of Hon. J. V. L. Pruyn,

Library of Win. C. Bryant, Esq., Roslon,

Library of Win. C. Bryant, Esq., Roslon,

Drawing Room of John, J. V. L. Pruyn,

Library of John A. Burnham, Jun., Esq., Boston,

Dining Room of John A. Burnham, Jun., Esq., Boston,

Dining-Room of George James, Esq., Rookline, Mass.

Dining-Room of Charles A. Cummings, Esq., Boston,

Library of Dancies R. Sargent, Esq., Brookline, Mass.

Dining-Room of Charles A. Cummings, Esq., Boston,

Lillong-Room of George W. Wales, Esq., Boston,

Hall of Francis Feabody, Esq., Danvers, Mass.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives hell

"This book is as unique as it is interesting.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives by type views of the interiors of twenty-two rooms and all but seven of which are in Massachusetts; and all off except one, Harvard Memorial Hall, are views from presidences. It is happily true that from various causest is now spreading through the country a conviction of improvements that we Americans can make in our hand of the increase of comfort attainable by cultivating too much neglected extentic side of our natures, and bing beauty with utility. To every person interested in direction, this volume will prove of inestimable interest value. It shows what men of culture already have and from these many hints can be taken by all in sear guidance or information."— Hartford Courant.

"Se For sale by all Booksellers. Sent. postposid. on re

J

Months of the sand our in the

II.

of te and of relate adorn York

PROSPECTUS

OF THE

AMERICAN ARCHITECT AND BUILDING NEWS.

EDITED BY

WILLIAM P. P. LONGFELLOW,

Messrs. James R. Osgood & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architectural pournal, which News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the fullpage plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law,—in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

The American Architect and Building News has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:—

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

The American Architect and Building News will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO., 131 Franklin Street, Boston.

SPECIAL NOTICE.

The American Architect and Building News will be for sale by all respectable booksellers and newsdealers. The public is requested to pay no money to canvassing agents, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

THE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB.

and will be published with regularity on the FIRST OF EACH MONTH.

To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.

THE

New York Sketch-Book

0

Architecture.

1876.

THIRD YEAR.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity on the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,
131 Franklin Street, Boston.



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 2.]

BOSTON, SATURDAY, JANUARY 8, 1876.

PRICE 15 CENTS.

ARCHITECTURAL PUBLICATIONS

JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE. By J. K. Colling. 1 vol.

MEDIÆVAL FOLIAGE. By J. K. Col-

11.4 LING. 1 vol. quarto, to plasts and using bloom 15.50.

These two volumes by Mr. Colling contain valuable introductory essays on the use of Foliage in Art, with a great number of designs illustrating the various modes in which Foliage has been employed by Architects and Decorators in different ages and nations. In their department these volumes are unrivalled.

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

Designs for Cabinets, Drawing-Room, Dining-Room, Sit-ting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scott, Steer, Colling, and others. I vol. quarto. 64 plates. \$15.00.
Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dweilings, liaths, &c.

NOTE-BOOK SKETCHES, Made during a tour in Europe. By Robert Swain Prabout. 1 vol. a tour in Europe. \$6.00.

Sketches of Castles, Towers, Spires, Porches, Pillars, Gargoyles, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIE. Reproduced by the Heliotype Process.
1 vol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

LIENARD'S DECORATION AND ORNA-namentation of the Science of the Decoration and Or-namentation of the Science of the Century. By Liesand Reproduced by the Helioty Process. Univaries of 120 designs, rich in hints to Architects and Decorators. I vol. folio, boards, \$27.69. Insif morocco, cloth sides, \$30.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. 1 vol. square 12mo

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful, and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he knows just what he wants, to read it before he decides upon his place."—New Fork Christian Advocate.

"Te is a freetiss on house-building. So much good sense

eldes upon his pla:s."—New Fork Christian Advocate.
"It is a treatise on house-building. So much good sense and good taste on this all-important subject are not often, to our thinking, embraced within an equal compass. Whether the reader is roing to build, or not, he will enjoy it vastly and, if he is, he should give it his most diligent attention."—The Congregationalise (boston).

ILLUSTRATED HOMES, By E. C. GARD

EER. I vol. square 12mo. Illustrated. \$2.00. "Mr. Gardner has a very persuasive and agreeable method of teaching people how to build house suitable for homes, and of infusing good taste along with good sense in all that relates to the site, the architecture, and the utilities and adornments, of houses."—Christian Intelligencer (New York).

. For sale by all Booksellers. Sent postpaid, on receipt of price by the Publishers,

JAMES R. OSGOOD & CO., Beston.

S. A. STETSON & CO., 173 Tremont

GAS FITTERS.

GIlt, Bronze, and Glass Chandeliers; Gas Pipe, and Fitng in all its Branches.

Architects, Contractors, and Builders furnished with the west estimates.

E. Hixon,

ARCHITECTS.

OFFICE OF FRANK W. WESTON,
ARCHITECT,
17 Peraberton Square, Poston, Dec. 21, 1875.
The co-partnership of "Weston & Rand," architecta, is
this day dissolved by mutual consent, Mr. Rand retiring.

Mr. Weston will continue in practice at above address, where also Mr. Rand may be found for the present. FRANK W. WESTON. GEO. D. RAND.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

EDWARD HIXON & CO.

IMPORTERS OF

UPHOLSTERY GOODS,

TRIMMINGS, AND LOOKING GLASSES,

AND MANUFACTURERS OF CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

No. 180 Washington Street, (NEW No. 364.)

BOSTON.

PAINTS, ETC.

CARPENTER, WOODWARD, & MORTON,

(ESTABLISHED 1840.)

Manufacturers and Dealers in

PURE WHITE LEAD,

LINSEED OIL.

COLORS, VARNISHES.

AND PAINTERS' SUPPLIES.

Careful attention given to orders, and goods will be found as represented.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS,

for all kinds of House and other Painting, both outside and

These colors will change less upon exposure, and prove nore durable, than pure White Lead Paints colored in the rdinary way.

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER

BEFORE OFFERED.

Manufactured by

WADSWORTH BROTHERS & HOWLAND,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

A SBESTOS FELTING CO. of New York,

BOILER AND PIPE COVERING:

also, Roofing Felt, Roof Coating, &c. Office of Eastern Department,

No. 11 PEMBERTON SQUARE, Boston.

H. W. SAYRE, SUPT.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS,

Importers of

ROOFING PLATES

AND IRON.

USED IN BUILDINGS.

Exclusive Boston Agents for the sale of THE UNION IRON MILLS. Solid WROUGHT IRON DRAMS, and THE Fred. Reed, E. Hixon, jun. "Bunden Bret" Inon, Tensile Strength 78,000 lbs.

THE HOUSEHOLD ART COMPANY.

BOSTON.

LOCKWOOD, LUMB, & CO.

PLUMBERS,

NO. 10 PROVINCE STREET. BOSTON.

Job Lockwood. Wm. Lumb. Beni, Brintnall.

BRANCH STORE. 667 TREMONT STREET.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

CHARLES WOODBERRY & SON,

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies Owners or Occupanta, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

DOE & HUNNEWELL,

First-Class Furniture, Mantles, Mirrors,

DRAPERIES.

Lace Curtains and Window Shades. IMPORTERS, JORDERS, AND RETAILERS OF

Furniture Coverings, Drapery Materials,

No. 1, 8, and 4 HAYMARKET SQUARE, BOSTON.

THE STORY OF A HOUSE. Illustrated by the Author. Translated by GEORGE M. TOWLE.

"The basis of the story is the buil ding of a château on the rue principles of architecture. The chief characters are and Mme. Gaudalau; their newly married daughter, for om a new château is to be built during her absence or whom a new château is to be built during her absence on the wedding tour; their son Paul, aged sixteen; and a cousin Eugene, who is an architect. Their practical assistant is Master Branchu, a shrewd builder's foreman, or small contractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical questions and objections which puzzie his architect. Another prominent character is Monsieur Durossy, a friend of the family, who has read and travelled much, and knows a little of every thing. He has been his own architect, and has built a very costly house which has fallen to pieces; his own engineer, and made impracticable roads on his own estate; and he likes to consider himself an infallible judge in matters of all kinds; he has theories, and is a confident critic on all subjects. on all subjects.

"With such varied characters for his mouthpieces, the an thor is able to lend fresh attractions to the study of his beautiful art, to point out the difficulties and prejudices and misunderstandings to which architects are exposed, to discuss his pet theories, and impress his favorite rules, without suspicion of egotism; and all this through the medium of piquant conversations, by which the reader is so well entertained that he forgets he is being instructed. The unpretentious earnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic illustrations prepared by the same master hand, make this latest work of Monsieur Violict-le-Duc the most attractive text-book of architecture that has ever come under our notice."—American Builder (New York). thor is able to lend fresh attractions to the study of his

ANNALS OF A FORTRESS. Translated by Bersamin Buckwall, Architect. I volume 8vo. Eighty-five filustrations, several in Colors. \$5.00.

"M. Viollet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and flacinating writer. His 'Story of a House' displayed his taste in the first capacity. His 'Annais of it Portress' exhibits his genius in the total control of these exceptionally handsome older of these exceptionally handsome older of these exceptionally handsome of these exceptionally handsome of these exceptionally handsome of these exceptionally handsome of the experimental control of these exceptionally handsome of the exceptionally planning, erecting, and defending through seven successive sieges, of an imaginary fortification on the River Cousin, an affluent of the Saöne in France. Each chapter in its bistory is set forth with the greatest elaboration and strictest regard to the technics of the art of war, so that the effect is that of a veritable narrative, or more properly, perhaps, of a scientific review."—Boston Congregationalist.

"Those who read the book through carefully, by the help of the beautiful illustrations with which it is lavishly embellished, will not only obtain an excellent idea of the spirit of mediaval architecture, but a better knowledge of the art of fortification from the earliest ages up to recent times than could be found in any other way short of the research and study which the author has himself given to the matter. M. Viollet-le-Duc is master of the subject, and imparts his learning in a thoroughly fascinating manner."—Saturday Review (London).

"He has made of his history of the art of fortification a once a valuable hand-book and a very charming romance a work that combines amusement with instruction in a very rare degree. —Pall Mall Gazette.

"One of the most charming, and at the same time practical, books of modern times, devoted to military science."—

Army and Navy Journal.

DISCOURSES ON ARCHITECTURE, — Translated, with an introductory Essay, by Henry VAN BRUNT, Fellow American Institute of Architects. Ful-ly illustrated. I vol. royal 8vo., \$8.00.

FUNDITURE COVERINGS, DRAPETY MAIGHTAIS, AND

UPHOLSTERY TRIMNINGS.

Warercoms in Abbott Lawrence Building, adjoining Hotel Boylston,

198 & 200 TREMONT STREET,
BOSTON.

Bich and Unique Furniture designed and manufactured to order.

FACTORY AT EAST CAMBRIEGE, MASS.

Boston Steam and Gas Pipe Works,

BRAMAN, DOW, & CO.,

MANUFACTURERS AND DEALERS IN

WRONGH IFON STREAM, GAS, AND WATER.

WRONGH IN THE CARRENCY OF STEAM, GAS, AND WATER.

No. 1, 3, and 4 HAYMABKET SQUARE,

**For sue by Booksellers. Sent postpaid, on receipt of receipt of parts of the Everlage and the Residue of Paris, The Château of Peterborough, The Cathedral of Paris, The Château of Paris, The Château of Paris, The Château of Paris, The Château of Paris, and those waying deliberately, and without qualification, that no work of any thing like equal value to American architecture been published in this country,—none from the study of which they and all lovers of art to Civilization. They are also important leasons for the elevation and part of the Study of architecture of the Greeks and Romans. A The Architecture of the Romans. The Domestic Architecture. Style and Composition. The Principles of Architecture of the Architectur

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.

ARTISTIC FOUNTAINS, &c., &c., made VIOLLET-LE-DUC'S WORKS. THE PEERLESS FURNACE.

MESSRS. PRATT & WENTWORTH, - I

ion't think it necessary to overpraise a go thing; but, when one enjoys great comfort, it is well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double windows, and no storm strips, all our rooms, closets, drawers, warm; and the lowest ten wind in early morning, 50 deg. F. near the dow, 2 deg. outside!

All this time of trial we have held in re the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations.

Truly yours,

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS II

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE.

of the latest patterns.

Bronze and Brass Hardware manufactured to order from own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET.

VOL. II. OF OUR NEW BOOK, "WOODEN AND BRICK BUILDINGS,"

contains 80 9x12 plates of modern designs for stores, banks, school-houses, churches, cottages, outbuildings, summer-houses, bost-house, gateways, and fences; also exterior and interior details, &c. Sent to any address free, by mail or express, on receipt of price, by Illustrated Catalogue of practical books free.

A. J. BICKNELL & CO., 27 WARREN STREET, N.Y.

PROOF IRON COLUMNS.

FIRE PROTECTION

FOR ALL KINDS OF

Cast and Wrought Iron Columns.

These columns, when covered with porous fire clay tiles and Portland cement, admit of the most perfect external finish, either with Parian cement, polished, or with scagliola.

They may have caps and decorations of terra cotta, plaster, or Carton Pierre, and can also be finished with a smooth hard cement exterior resembling rubbed sandstone, or can be painted. If wood protection is used, they may be finished with moulded or carved woodwork.

The value of our process is proved by actual tests.

The use of our method of fire-proofing and decorating iron columns enables those employing iron for this purpose to dispense with all superfluous metal over and above what is necessary for stability, and thus reduces the cost of large columns below that of plain iron.

For full particulars, diagrams, and circulars, address,

DRAKE & WIGHT, PATENTEES, 145 Clark Street, Chicago.

NEW ENGLAND CABINET ORGAN.

Boston, Dec. 9, 1872. I consider the Cabinet Organs manufactured by the New England Organ Company fully equal in tone, mechanism, and appearance, to those produced in any establishment in the country; and would call attention to the "soft register," or Dulciana, as being uncommonly delicate and refined. JOHN A. WILLCOX, Miss. Dec.

Illustrated Catalogues sent free

Address

NEW ENGLAND ORGAN CO.,

1299 Washington Street, BOSTON, MASS.

BURNETT'S FLAVORING EXTRACTS.

— The superiority of these extracts consists in their perfect purity and great strength. They are warranted free from
the poisonous oils and acids which enter into the composition They are not only true to their names, but are prepared from fruits of the best quality, and are so highly concentrated that a comparatively small quantity only need be used.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France.
This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the fielicitype Process. The subjects represented are "The Visitation." "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON.

THE ART FURNISHING COMPANY, Boston Ornamental Iron Works

170 TREMONT STREET, BOSTON.

have one of the largest stocks Plain, Encaustic, and Art Tiles, in the country, and solicit contracts for Tile work in Dwellings and Public Buildings. Hearths, Fireplace Linings,

Vestibules, Halls, Bank Floors,

C. A. WELLINGTON

MARK Q W. PEIRCE & CO., M.

STEAM AND GAS FITTERS,

AND DEALERS IN

GAS FIXTURES.

12 SUDBURY, and 169 FRIEND STREET,

BOSTON

MANUFACTURE ALL MINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING,

IRON CASTINGS. IRON STABLE FIXTURES.

FOUNTAINS.

VAREA

GARDEN STATUARY,

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send for Catalogue.

BUBIER & COMPANY,

118 MILE STREET, BOSTON.

ENGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Lift and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest," The Monarch of the Gien," "High Lift," Low Life," "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty. Quarto. Price, \$16.00.

JAMES R. OSGOOD & CO., BOSTON.

hold Furniture.Ornamental Goods of any description used for Interior Decoration or Building Purpo or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND

BUILDING NEWS.

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS,

and furnish any required number of cuts by the Heliotype Relief

JAMES B. OSGOOD & Co.,

131 Franklin St., Boston.

HELIOTYPE CARDS.

This card is a specimen of the work executed by the

HELIOTYPE RELIEF

PROCESS,

by JAMES R. OSGOOD & Co.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advertisements, printed circulars, &c. The secompanying design is an example of such a plate engraved by the Relief Process. Artisans of all descriptions, and especially those



PORTLAND STONE WARE CO.,

MANUPACTURERS OF



FIRE BRICK, CHIMNEY TOPS, VENTILATING FLUES

AND ALL KINDS OF TERRA COTTA WARE,

MADE TO ORDER.

THE PROVIDENCE WATER WORKS have the past summer tested Sewer Pipes from different manufactories, resulting in the PORTLAND standing far ahead of all other American

SEND FOR CIRCULAR.

OFFICE 50 KILBY STREET, DEPOT 400 FEDERAL STREET, BOSTON, MASS.

GEO. C. DUNNE,

General Agent.

511 Washington Street, Boston,

OFFER FOR SALE

BRONZE DECORATIVE STATUARY,

WITH PEDESTALS.

PARLOR CLOCKS.

Mantel Furnishing Sets,

BRASS ORNAMENTAL ARTICLES.

with subjects from antique and modern art for Interior Dec-

Rare Porcelain and Parian Goods.

BIGELOW, KENNARD, & CO., THE BOOK OF AMERICAN INTERIORS.

BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking interiors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and essays on the Library and Dining-Room. Quarto. \$10.00.

HELIOTYPES OF

HELIOTYPES OF

Library of H. W. Longfellow, Eag., Cambridge, Mass.
Dining-Room of Dr. J. R. Chadwick, Boston.
Library of Donald G. Mitchell, Eaq., West Haven, Conn.
Library of Donald G. Mitchell, Eaq., West Haven, Conn.
Library of Dr. Thec. F. Breck, Springfield, Mass.
Dining-Room of George Ward Nichols, Esq., Cincinnati.
Great Hall of Major Rathbone, San Francisco.
Library of George B. Chase, Esq., Bost on,
Dining-Room of Hon. J. V. L. Prayn, Albany, N. Y.
China-Room of Hon. J. V. L. Prayn, Albany, N. Y.
China-Room of Hon. J. V. L. Prayn, Albany, N. Y.
China-Room of Hon. J. V. L. Prayn, Albany, N. Y.
Study, Harvard College.
Dining Room of John A. Burnham, Jun., Esq., Boston.
Drawing Room of Prof. F. Rogers, Newport, R.I.
Library of John A. Burnham, Jun., Esq., Boston.
Dining-Room of George James, Esq., Nahant.
Hall of Charles S. Kargent, Esq., Brook line, Mass.
Dining-Room of Corper W. Wales, Esq., Boston.
Hall of Francis Peabody, Esq., Danvers, Mass.
Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives hel-

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives helic type views of the interiors of twenty-two rooms and halls all but seven of which are in Massachusetts; and all of there except one, larvard Hemorial Hall one was an except one, larvard Hemorial Hall one various cause this now apreading through the country a conviction of this now apreading through the country a conviction of this provements that we Americans can make in our home and of the increase of comfort statanable by cultivating the omnet, the country of the continuous states of the continuous continuous and the continuous continuou TOSCHI'S ENGRAVINGS. From Frescos by Correction and Parnecians. Reproduced by the Heliotype Process from the "Gray Collection of Engravings." Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Againt Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Correggio's Prescos, it includes the Madonna della Scala, Dians in a Charlot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, \$18.00.

JAMES R. OSGOOD & CO., Boston.

JAMES R. OSGOOD & CO., Boston.

PROSPECTUS

F THE

AMERICAN ARCHITECT AND BUILDING NEWS.

WINTERS BY

WILLIAM P. P. LONGFELLOW,

Messes. James R. Osgood & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architectural pournal, which News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critinotices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law,—in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING News has been adopted by the AMERICAN INSTITUTE OF ARCHITECTS, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:—

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Bullding News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING News will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO.,

131 FRANKLIN STREET, BOSTON.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to pay no money to canvassing agents, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECOR ATIONS

FOR

Chambers, Halls,

Private Residences,

ETC., ETC., ETC.



LIBERAL ESTIMATES

AND DESIGNS

MADE FOR

9 Fresco Painting

and Decorations

IN ALL VARIETIES.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR, 1876.

THE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB.

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, 131 Franklin Street, Boston. THE

New York Sketch-Book

OF

Architecture.

1876.

THIRD YEAR.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity on the First of Each Month.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, 131 Franklin Street, Boston.



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 3.7

BOSTON, SATURDAY, JANUARY 15, 1876.

[PRICE 15 CENTS.

ARCHITECTURAL PUBLICATIONS

JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE. By J. K. Colling. 1 vol.

MEDIÆVAL FOLIAGE. By J. K. Col-

These two volumes by Mr. Colling contain valuable intro-ductory essays on the use of Foliage in Art, with a great number of designs illustrating the various modes in which in different ages and nations. In their department these volumes are unrivalled.

GOTHIC FORMS. By B. J. TALBEBT. 1 vol. folio. 31 plates. \$15.00.

Designs for Cabinets, Drawing-Room, Dising-Room, Sitting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by SCOTE, STREEF, COLLING, and others. I vol. quarto. 46 plates. \$1500. Containing designs for Churches, Cathedrals, Colleges, Hails, Railway Stations, Museums, Model Dwellings, Baths, &c.

NOTE-BOOK SKETCHES. Made during a tour in Europe. By ROBERT SWAIN PEABODY. 1 vol.

Sketches of Castles, Towers, Spires, Porches, Pillars, Gargo-les, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE ouses in several Swiss Cantons. Drawn and engraved by and E. Values Reproduced by the Heliotype Process.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and manentation of the Nineteenth Century. By Lixak Reproduced by the Heliotype Process. Upwards of designs, rich in hims to Architects and Decorators. 1010, boards, 267.09. Half morocco, cloth sides, \$50.09.

HOMES AND HOW TO MAKE THEM. By E. C. GARDNER. Illustrated. 1 vol. square 12mo.

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful, and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is cure he knows just what he wants, to read it before he decides upon his pla a."—New Fork Christian Advocate.

"It is a treatise on house-building. So much good sense

"It is a treatise on house-building. So much good sense and good taste on this nil-important subject are not often, to our think nig, embraced within an equal compass. Whether the reader is soing to build, or not, he will enjoy it vastly; and, if he is, he should give it his most disigent attention."

— The Congregationalist (Boston).

ILLUSTRATED HOMES. By E. C. GARD-

MAJOSHIAA LD HOMES, BY E. C. GARD-MER. I vok square Bimo. Iliustrated. \$2.00. "Mr. Gardiner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infaming good taste along with good sense in all that relates to the site, the architecture, and the utilities and adornments, of houses."—Christian Intelligencer (New

 ${}^\bullet,{}^\bullet$ For mie by all Booksellers. Bent postpaid, on receip of price by the l'ublishers,

JAMES R. OSGOOD & CO., BOSTON. No. 186 WASHINGTON STREET,

S. A. STETSON & CO., 173 Tremont

ARCHITECTS.

OFFICE OF FRANK W. WESTON.

(Late Weston & Rand) . Accurrect,
If Pemberton Square, Boston, Dec. 21, 1875.
The co-partnership of "Weston & Rand," architects, is this day dissolved by mutual consent, Mr. Rand retiring.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School Street, Boston.

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

EDWARD HIXON & CO.

UPHOLSTERY GOODS,

TRIMMINGS, AND LOOKING GLASSES,

IMPORTERS OF

Of the latest-Styles and Most Thorough Workmanship.

(New No. 361.)

PAINTS, ETC.

CARPENTER, WOODWARD, & MORTON,

(RSTABLISHED 1840.)

Manufacturers and Dealers in

PURE WHITE LEAD.

LINSEED OIL,

COLORS

Varnishes, AND PAINTERS' SUPPLIES.

Careful attention given to orders, and goods will be found as represented.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS,

or all kinds of House and other Painting, both outside and naide work.

These colors will change less upon exposure, and prove more durable, than pure White Lead Paints colored in the ordinary way.

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER BEFORE OFFERED.

Manufactured by

WADSWORTH BROTHERS & HOWLAND.

Importers and dealers in Paints, Oils, and Chemicals. Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles l'aim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Leud.

MONS. C. J. SOYARD, formerly 12 West

FUBNITUBE, WOOD MANTELS,

AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

2 "A" BEACON STREET, NEAR TREMONT, BOSTON.
Shops in Albany Street.

FULLER, DANA, & FITZ,

AND MANUFACTURERS OF CABINET FURNITURE, METAL MERCHANTS,

Importers of

ROOFING PLATES

AND IRON,

USED IN BUILDINGS.

Street, Boston.

GAS FITTERS.

GIlt, Bronze and Glass Chandellers; Cas Pipe, and Fitting in all its Branches.

Architecta. Contractors, and Builders furnished with the E. Hixon, Fred. Reed, E. Hixon, jun.

EXCLUSIVE Boston Agents for the same of Exclusive Boston Agents for the sale of THE UNION IRON MILLS. Solid WROUGHT IRON BRAMS, and THE

MITCHELL, VANCE, & CO.,

DESIGNEES AND MANUFACTURERS OF

ARTISTIC

GAS FIXTURES

FOR

CHURCHES, DWELLINGS, ETC.

FINE CLOCKS AND BRONZES.

597 Broadway, New York.

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET.

ROSTON.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications: Fire Insurance Adjusters between Insurance Companies, Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

DOE & HUNNEWELL.

MANUFACTURERS OF

First-Class Furniture, Mantels, Mirrors, DRAPERIES,

Lace Curtains and Window Shades,

IMPORTERS, JOBBERS, AND RETAILERS OF

Furniture Coverings, Drapery Materials, AND

Upholstery Trimmings.

Warerooms in Abbott Lawrence Building, adjo Boyleton, dning Hote

198 & 200 TREMONT STREET, BOSTON.

Rich and Unique Furniture designed and man ufactured to order.

FACTORY AT EAST CAMBRIDGE, MASS.

THE STORY OF A HOUSE. Illustrated by GEORGE M. TOWLE. I vol. 8vo. beveled boards, red edges, \$5.00.

"The basis of the story is the building of a château on the true principles of architecture. The chief characters are M and Mme. Gaudaiau; their newly married daughter, for whom a new château is to be built during her absence on the wedding tour; their son Paul, aged sixteen; and a coustin Eugene, who is an architect. Their practical assistant is Master Branchu, a shr-wd builder's foreman, or small contractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical questions and objections which puzzle his architect. Another prominent character is Monsieur Durossy, a friend of the tions and objections which puzzle his architect. Another prominent character is Monsieur Durosay, a friend of the family, who has read and travelled much, and knows a little of every thing. He has been his own architect, and has built a very costly house which has fallen to pieces; his own engineer, and made impracticable roads on his own estate; and he likes to consider himself an infallible judge in matters of all kinds; he has theories, and is a confident critic

ters or an annus; no has theories, and is a conneant critic on all subjects.

"With such varied characters for his mouthpieces, the au-thor is able to lend fresh attractions to the study of his beautiful art, to point out the difficulties and prejudices and misunderstandings to which architects are exposed, to dis cuss his pet theories, and impress his favorite rules, without suspicion of egotism; and all this through the medium of suspicion of egotism; and all this through the medium of piquant conversations, by which the reader is so well entertained that he forgets he is being instructed. The unpretentious earnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic illustrations prepared by the same master hand, make this latest work of Monsieur Violiet-le-Due the most attractive text-book of architecture that has ever come under our notice."—American Builder (New York).

ANNALS OF A FORTRESS. Translated by Berjanin Buckhall, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

"M. Viollet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and fascinating writer. His 'Story of a House' (isplayed his taste in the first capacity. His 'Annais of a Fortrese' schibits his genius in the second; while his skill in the third is strikingly illustrated in both of these exceptionally handsome volumes. In the last named this gifted and brilliant author describes the locating, planning, crecting, and defending through seven successive sieges, of an imaginary fortification on the River Cousin, an affluent of the Saöne in France. Each chapter in its history is set forth with the greatest elaboration and strictest repard to the technics of the art of war, so that the effect is that of a veritable marrative, or more properly, perhaps, of a scientific review." — Boston Congregationalist.

"Those who read the hook through carefully, by the help

"Those who read the book through carefully, by the help of the beautiful illustrations with which it is lavishly embellished, will not only obtain an excellent idea of the spirit of mediaval architecture, but a better knowledge of the art of fortification from the carliest ages up to recent times han could be found in any other way short of the execurch and which the author has himself given to the matter. M. Viollet-ie-buc is master of the subject, and imparts his learning in a thoroughly fascinating manner." — Saturday Review (London).

"He has made of his history of the art of fortification at nee a valuable hand-book and a very charming romance; work that combines amusement with instruction in a ery rare degree. — Pall Mail Gasette.

"One of the most charming, and at the same time practi-cal, books of modern times, devoted to military science." — Army and Navy Journal.

DISCOURSES ON ARCHITECTURE. VAN BELET, Fellow American Institute of Architects. Fully illustrated. I vol. royal 8vo., \$8.00.

Van Better, Fellow American Institute of Architects. Fully illustrated. I vol. royal 8vo., 88.00.

"We have no hesitation in saying deliberately, and without qualification, that no work of any thing like equal value to American architects has ever been published in this country,—none from the study of which they and all lovers of art may derive so many, so durable, and so important lessons for the elevation and perfection of their art.

"Those who are engaged in the study of architecture as amateura, and those who are practising it as a profession, or who are preparing to do so, will gather an intelligent idea of the scope of this suggestive and instructive work from a synopals of the subjects treated upon in the ten discourses which compose this stately volume. They are as follows: I. What is Barbarism? What is Art? What are the Relations of Art to Civilization? What are the Social Conditions most favorable to the Development of Art? I. Primitive Methods of Construction as practised in Greek Architecture. It of the properties of the Remans. 5. The Methods to be followed in the Study of Architecture. The Hasiless of the Romans. The Domestic Architecture. The Hasiless of the Romans. The Domestic Architecture. Style and Composition. The Origin of Byzantine Architecture. The Architecture of the West since the Establishment of Ciristianity. T. The Principle of Architectural Composition. The Mension of Architectural Composition. The Remaissance in the West, and especially in France. 9. The Principles of Architectural Composition. The Benaissance in the West, and especially in France. 9. The Principles of Architecture of the Architecture of the Sinteetunk Century. Method. We may add that the work is this straight and all from the mistory of the art, and among which are from rare subjects, and all from the most perfect specimens known in the history of the art, and among which are from rare subjects, and all from the most perfect specimens known in the history of the art, and among which are from rare subjects, and al The Ludian Sarcophagus, The Antoninus and Caracalla, The dral of Vezelay; Sections, The Saintes, The Château of Poulo Tuileries."—Christian Intellig.

*, * For sale by Booksellers. Sent postpaid, on receipt price, by the Publishers,

JAMES R. OSGOOD & CO., Boston.

VIOLLET-LE-DUC'S WORKS. THE PEERLESS FURNACE.

Chapel Station, kline, Dec. 8, 1875

MESSRS. PRATT & WENTWORTH, - I thing; but, when one enjoys great comfort, it is

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double winds no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furni

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and

Truly yours,

A. A. HAYES.

Self-Acting - Requiring no Pressure of Water.



Ruby Glass Basin and Globes mounted on a Golden Brons Standard, with polished Marble Base. For the Parlor, Diningroom, Library, Conservatory, Store Counter, Show Window, etc. Especially adapted to purify the air in the sick-room.

The addition of Cologne to the water makes it a delightful

PERFUME FOUNTAIN.

Height to top of basin, 21 has,

Diameter of basin . . 10 "

Height of stream . . . 8 "

Price complete, \$15. tented Feb. 7, 1871.

Address for Descriptive Circular,

JAMES W. TUFTS,

33 to 39 Bowker Street, BOSTON.

Catalogue of Architectural **Hooks**

Mailed free to any address.
All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO. ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

BURDITT & WILLIAMS,

MANUPACTURERS AND DEALERS IN

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE.

of the latest patterns

Bronze and Bress Hardware manufactured to order from ir own patterns, or from architects' drawings. 20 DOCK SQUARE, BOSTON, MANUFACTORY 19 WAREHAM STEERS.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

Lounges, Easy Chairs, Patent Reading Chairs, Student Chairs, &c., &c.

FACTORY AT EAST CAMBRIDGE.

HELIOTYPE CARDS.

This eard is a specimen of the work executed by the

HELIOTYPE RELIEF

PROCESS.

by JAMES R. OSGOOD & Co.

From any design furnished, an elegant card may be printed by Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a all additional cost, which may be used in newspaper advertise ments, printed circulars, &c. The accompanying design is an example of such a plate engraved by the Relief Process. Artisans of all descriptions, and especially those who manufacture or deal in House

THE BOOK OF AMERICAN INTERIORS. M. W. PEIRCE & CO., BY CHARLES W. ELLIOTT.

taining views of twenty-two striking interiors n ag in this country, and about thirty smaller ill as. With descriptive letter-press and essays on y and Duling-Room. Quarto. \$1000.

HELIOTYPES OF

HELIOTYPES OF

Abrary of H. W. Longfellow, Fag., Cambridge, Mass.

Dining-Boom of Dr. J. R. Chadwick, Boston.

Abrary of Douald G. Mitchell, Eaq., West Haven, Conn.

Abrary of Douald G. Mitchell, Eaq., West Haven, Conn.

Abrary of Bor. Thee. F. Freck, Springfield, Mass.

Dining-Boom of George Ward Nichols, Eaq., Cincinnatt.

Jerar I all of Major Rathbone, San Francisco.

Jerary of George B. Chae, Eaq., 168 on,

Dining-Room of Hon. J. Y. L. Frayn, Albany, N. Y.

Dining-Room of Hon. J. Y. L. Frayn, Albany, N. Y.

Dining-Room of Hon. J. Y. L. Prayn,

Jorary of Wm. C. Bryant, Esq. Roslyn, L. I.

Ludy, Harvard College.

Dining Room of John A. Burnham, Jun, Eaq., Boston.

Daving Room of Yoft, P. Rogers, Newport, R. I.

Jorary of John A. Burnham, Jun, Eaq., Boston.

Dining-Room of John A. Burnham, Jun, Eaq., Boston.

Dining-Room of Corge James, E-q., Nahaut.

Hall of Charles S. Bargent, Eaq., Brookline, Mass.

Daing-Room of George W. Wales, E-q., Boston.

Jali of Francis Peabody, Esq., Danvers, Mass.

"This book is as unique as it is interesting. It gives hei

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives hely eviews of the interiors of twenty-two rooms and ha all but seven of which are in Massachusetts; and all offeeenees. It is haspity true that from various causes the now spreading through the county articus causes the now spreading through the county motion for how an i of the increase of comfort strainable by cultivating too much nelected esshetic side of our matree, and hie ing beauty with utility. To every person interested in direction, this volume will prove of inestimable interests when I shows what men of culture already have do and from these many inits can be taken by all in search guidance or information." — Harford Coursest.

. For sale by all Booksellers. Sent, postpoid, on receip of price by the Publishers.

JAMES R. OSGOOD & CO., BOSTOK.

NEW ENGLAND CABINET ORGAN.

Bostos, Dec. 9, 1872.

I consider the Cabinet Organs manufactured by the New England Organ Company fully equal in tone, mechanism, and appearance, to those produced in any establishment in the country; and would call attention to the "soft register," or Dulciana, as being anonommonly delicate and refined.

JOHN A. WILLCOX. Mus. Doc.

Address

NEW ENGLAND ORGAN CO.,

1299 Washington Street, BOSTON, MASS.

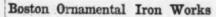
BURNETT'S FLAVORING EXTRACTS.

The superiority of these extracts consists in their perfect purity and great strength. They are warranted free from the poisonous oils and acids which enter into the composition of many of the factitious fruit flavors now in the market. They are not only true to their names, but are prepared from fruits of the best quality, and are so highly concentrated that a comparatively small quantity only need be used.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France.

This volume contains twenty-four Flates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Validation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00. RAPHAEL PICTURES.

JAMES R. OSGOOD & CO., BOSTON.



MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING.

IRON CASTINGS.

IRON STABLE FIXTURES. FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES.

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send for Catalogue.

BUBIER & COMPANY,

118 MILK STREET, BOSTON

ENGRAVINGS FROM LANDSEER. Repreduced in Hellotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works. Including "The Challenge." "Chillingham Red Deer," "The King of the Forest," "The Monarch of the Cien," "High Life," "Low Life," "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty, Quarto. Price, \$16.00.

hold Furniture, Ornamental Goods of any description used for Interior Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of poculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND

BUILDING NEWS.

have them executed by the publishers, who will also print

HELIOTYPE CARDS,

and furnish any required number of cuts by the Heliotype Relief

> JAKES R. OSGOOD & Co., 131 Franklin St., Boston

BIGELOW, KENNARD, & CO.,

511 Washington Street, Boston,

OFFER FOR SALE

BRONZE DECORATIVE STATUARY,

WITH PEDESTALS.

PARLOR CLOCKS.

Mantel Furnishing Sets,

BRASS ORNAMENTAL ARTICLES,

with subjects from antique and modern art for Interior Decorations, also

Rare Porcelain and Parian Goods.

TOSCHI'S ENGRAVINGS. From Freecos

Tosch for Tile work in Dwellings and Public Buildings, the Process from the "Gray Collection of Engravings". Hearths, Pireplace Linings, "Hervard University."

This volume contains twenty-four Plates, including Paregiano's Rolland Arath, Saint Lucia, and Saint Apollonia, Two Decoons, and Saint Accorde. Of Correggio's Freeces, it was the Madonan della Scala, Diama in a Charlot, The Coronation of the Virgin, groups of Cherubs and Angels.

A rare and valuable collection. Quarto. Price, \$10.00.

James B. Osgood & Co., Boston.



STEAM AND GAS FITTERS,

AND DEALERS IN

GAS FIXTURES.

12 Supsury, and 109 PRIEND STREET,

BOSTON.

ART FURNISHING COMPANY,

170 TREMONT STREET,

have one of the largest stocks Plain, Encaustic, and Art Tiles.

in the country, and solicit con-

tracts for Tile work in Dwell-

THE

STRADE MARK TO

PROSPECTUS

AMERICAN ARCHITECT AND BUILDING NEWS.

WILLIAM P. P. LONGFELLOW,

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Abchitectural pournal, which News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, exeare invited to send notes of structures and works of are, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the AMERICAN INSTITUTE OF ARCHITECTS, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:-

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

The American Architect and Building News will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO...

131 FRANKLIN STREET, BOSTON.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to pay no money to canvassing agents, but to send subscriptions directly to the publishers by bank-draft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

PAINTINGS. **PAINTERS** FAMOUS AND

BY MRS. JULIA A. SHEDD.

Illustrated with Heliotypes of Engravings after Raphael, Correggio, Titian, Copley, Reynolds, Murillo, and other Celebrated Painters. I vol. 8vo. Red Edges. \$5.00.

A valuable, convenient, and beautiful compendium of information, concerning the most eminent artists and their works

* For sale by all Booksellers. Sent, post-paid, on receipt of price by the Publishers, JAMES R. OSGOOD & COMPANY, BOSTON.

Architectural Sketch-Book. New York Sketch-Book

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR. 1876.

1876.

THE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB,

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Drast or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, 131 Franklin Street, Boston.

Architecture.

1876.

THIRD YEAR.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE 86 PER YEAR, OR 85 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 4.]

BOSTON, SATURDAY, JANUARY 22, 1876.

[PRICE 15 CENTS.

ARCHITECTURAL PUBLICATIONS

JAMES R. OSGOOD & CO.,

ART FOLIAGE. By J. K. Colling. 1 vol.

MEDIÆVAL FOLIAGE. By J. K. COL-CHARLES D. WOODBERRY, Architect,

.00. These two volumes by Mr. Colling contain valuable introctory essays on the use of Foliage in Art, with a great mober of designs illustrating the various modes in which liage has been employed by Architects and Decorators different ages and nations. In their department these tumes are univalied.

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

igns for Cabinets, Drawing-Room, Dining-Room, Sit-Room, Bed-Room, and Library Furniture. With an duction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITEC-TUBE. From designs by Scott, STREET, COLLING, and others. 1 vol. quarto. 64 plates. \$15.00.

Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths,

NOTE-BOOK SKETCHES, Made during a tourin Europe. By Robert Swain Prabody. 1 vol.

Sketches of Castles, Towers, Spires, Porches, Pillars, Gargovies, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Captions. Description touses in several Swiss Cantons. Drawn and engraved by and E. VARIN Reproduced by the Heliotype Process. This attraction.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and entation of the Nineteenth Century. By Lits Architects. Upwards of cms, rich in hints to Architects and Decorators. 1 y, boards, \$27.09. Half morocoo, cloth sides, \$30.69.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. 1 vol. square 12mo.

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful, and inexpensaive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he knows just what he wants, to read it before he decides upon his pla s."—**New Fork Christian Adoccate.

"It is a treatise on house-building." So much good sense and good taste on this all-important subject are not often, to our thinking, embraced within an equal compass. Whether the reader is going to build, or not, he will enjoy it vasity; and, if he is, he should give it his most ditigent attention."

"The Congregationalisi (iloston).

LLUSTRATED HOMES, By E. C. GARD-

NER. I vol. square Ermo. Hinstrated. \$1.00.

Mr. Gardner has a very persuasive and agreeable method teaching people how to build houses suitable for homes. do finitishing good taste along with good sense in all that lates to the site, the architecture, and the utilities and comments, of houses."—Christian Intelligencer (New Yorkship and Christian Intelligencer).

 $^{\bullet}{}_{\circ}{}^{\bullet}$ For sale by all Booksellers. Sent postpaid, on receipt of price by the Publishers,

S. A. STETSON & CO., 173 Tremont GAS FITTERS.

Gilt, Bronze, and Glass Chandeliers; Gas Pipe, and Fit-ing in all its Branches. Architects, Contractors, and Builders furnished with the

ARCHITECTS.

OFFICE OF FRANK W. WESTON, (Late Weston & RAND)

(Late Weston & Rand)

17 Pemberton Square, Boston, Dec. 31, 1875.

The co-partnership of "Weston & Rand," architects, is this day dissolved by mutual consent, Mr. Rand retiring.

JOS. E. BILLINGS, Architect, 33 School Street, Boaton.

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS.

Particular attention given to Repairing and Leasing Estates and the Collection of Renta.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET, BOSTON.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

EDWARD HIXON & CO.

UPHOLSTERY GOODS,

TRIMMINGS, AND LOOKING GLASSES,

AND MANUFACTURERS OF CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

(NEW No 364.)

BOSTON.

E. Hixon, Fred. Beed,

PAINTS, ETC.

CARPENTER, WOODWARD, & MORTON,

Manufacturers and Dealers in

PURE WHITE LEAD.

COLORS, VARNISHES,

AND PAINTERS' SUPPLIES.

Careful attention given to orders, and goods will be found as represented.

TO ARCHITECTS AND BUILDERS.

for all kinds of House and other Painting, both outside and inside work.

These colors will change less upon exposure, and prove more durable, than pure White Lead Paints colored in the ordinary way.

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER BEFORE OFFERED.

WADSWORTH BROTHERS & HOWLAND,

Importers and dealers in Paints, Oils, and Chemicals, Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

MONS. C. J. SOYARD, formerly 12 West

FURNITURE, WOOD MANTELS,

AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

2 "A" BEACON STREET, HEAR TREMONT, BOSTON.

Shops in Albany Street.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS,

Importers of

ROOFING PLATES

AND IRON,

USED IN BUILDINGS.

Exclusive Boston Agents for the sale of THE UNION IRON MILLS. Solid WROUGHT IRON BRAMS, and THE E. Hixon, jun. "Burden Bret" Inon, Tensile Strength 78,000 lbs.

MITCHELL, VANCE, & CO.

DESIGNERS AND MANUFACTUREDS OF

ARTISTIC

GAS FIXTURES

CHURCHES, DWELLINGS, ETC.

FINE CLOCKS AND BRONZES.

597 Broadway, New York.

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY.

156 TREMONT STREET,

BOSTON.

W. J. McPHERSON & CO.

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

CHARLES WOODBERRY & SON.

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

DOE & HUNNEWELL.

First-Class Furniture, Mantels, Mirrors, DRAPERIES,

Lace Curtains and Window Shades.

IMPORTERS, JOBBERS, AND RETAILERS OF

Furniture Coverings, Drapery Materials, AND

Upholstery Trimmings.

198 & 200 TREMONT STREET. BOSTON.

Rich and Unique Furniture designed and manufactured to order.

FACTORY AT EAST CAMBRIDGE, MASS.

THE STORY OF A HOUSE. Illustrated by the Author. Translated by GEORGE M. TOWLE. I val. 8vo. beveled boards, red edges, \$5.00.

"The basis of the story is the building of a château on the true principles of architecture. The chief characters are M and Mme. Gaudaiau; their newly married daughter, for whom a new château is to be built during her absence on the wedding tour; their son Paul, aged sixteen; and a cousin Eugene, who is an architect. Their practical assistant is Master Branchu, a shrewd builder's foroman, or small cor tractor, whose book-knowledge is limited, but who alway tractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical questions and objections which puzzle his architect. Another prominent character is Monsieur Duresay, a friend of the family, who has read and travelled much, and knows a little of every thing. He has been his own architect, and has built a very costly house which has fallen to pieces; his own engineer, and made impracticable roads on his own estate; and be likes to consider himself an infallible judge in matters of all kinds; he has theories, and is a confident critic

ters or all kinds; he has theories, and is a confident critic on all subjects.

"With such varied characters for his mouthpieces, the au-thor is able to lend fresh attractions to the study of his beautiful art, te point out the difficulties and prejudices and misunderstandings to which architects are exposed, to dis misunderstandings to which are interest are exposed, to dis-cuss his pet theories, and impress his favorite rules, without suspicion of egotism; and all this through the medium of piquant conversations, by which the reader is so well enter-tained that he forgets he is being instructed. The unpre-tentious earnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic illustrations prepared by the same master hand, make this latest work of Monsieur Violiet-le-Duc the most attractive text-book of architecture that has evunder our notice." — American Builder (New York).

A NNALS OF A FORTRESS. Translated by Berjamin Buckhall, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

"M. Viollet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and fascinating writer. His "Story of a House" displayed his taste in the first capaters of the same of t

"Those who read the book through carefully, by the h of the beautiful illustrations with which it is lavishly a bellished, will not only obtain an excellent idea of the of mediserval architecture, but a better knowledge of the of fortification from the earliest ages up to recent times to could be found in any other way short of the research study which the author has himself given to the matt. W. Follet-io-Duc is masters of the subject, and imparts learning in a thoroughly fascinating manner." — Sature Review (London).

"He has made of his history of the art of fortification at once a valuable hand-book and a very charming romance; a work that combines amusement with instruction in a very rare degree. — Pail Mall Gazette.

"One of the most charming, and at the same time pract at, books of modern times, devoted to military science." irmy and Navy Journal.

DISCOURSES ON ARCHITECTURE. Translated, with an Introductory Essay, by HENRY VAN BRUNKT, Fellow American Institute of Architects. Fully illustrated. 1 vol. royal 8vo., \$8.00.

Yax Burx; Fellow American Institute of Architects. Fully illustrated. I vol. royal 8vo., 48.00.

"We have no hesitation in saying deliberately, and without qualification, that no work of any thing like equal value to American architects has ever been published in this country,—none from the study of which they and all lovers of art may derive so many, so durable, and so important lessons for the elevation and perfection of their art.

"Those who are engaged in the study of architecture as amateurs, and those who are practising it as a profession, or who are preparing to do so, will guiter an intelligent likes of the elevation and perfection of their art.

"Those who are engaged in the study of architecture as of the subject treated upon the two decimes which compose this stately volume. They are as follows:
I. What is Barbarism? What is Art? What are the Relations of Art to Civilization? What are the Social Conditions most favorable to the Development of Art. 2. Primitive Methods of Construction as practised in Greek Architecture. 3. Comparison between the Architecture of the Greeks and Romans. 4. The Architecture of the Romans. 5. The Methods to be followed in the Study of Architecture. The Basilicas of the Romans. The Domeste Architecture of the Anchitecture of the Architecture of the Architecture of the Architecture of the West since the Establishment of Christianity. The Principle of Architectural Composition. The Romans of Architecture of the West since the Establishment of Christianity. The Principles and Informace. The Architecture of the West since the Establishment of Christianity. The Principles and Informace. The Architecture of the West since the Establishment of Christianity. The Principles and Informace. The Principles and Informace are subjects, and all from the most perfect specimens known

. For sale by Rooksellers. Scut postpaid, on receipt of price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.

VIOLLET-LE-DUC'S WORKS. THE PEERLESS FURNACE.

okline, Dec. 3, 1875.

MESSRS. PRATT & WENTWORTH, - 1 don't think it necessary to everpraise a good thing; but, when one enjoys great comfort, it is well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half fresen in all other

We have been without double win no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. P. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the lew temperature, and no precautions to protect fro cold, rendered the experience a m test of the excellence of your furnace and

Truly yours,

A. A. HATES.

AUTOMATIC CRYSTAL FOUNTAIN.

Self-Acting - Requiring no Pressure of Water.



Ruby Glass Basin and Globes mounted on a Golden Bronze Standard, with polished Marble Base. For the Parlor, Diningroom, Library, Conservatory, Store Counter, Show Window, etc. Especially adapted to purify the air in the sick-room.

The addition of Colorne to the water makes it a delightful

PERFUME FOUNTAIN.

Height to top of basin. 21 lps. Diameter of basin . . 10 "

Height of stream . . . 8 *

Price complete, \$15.

Address for Descriptive Circular,

nted Feb. 7, 1871.

JAMES W. TUFTS,

33 to 39 Bowker Street, BOSTON.

Catalogue of Architectural Books

Mailed free to any address.

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

BURDITT & WILLIAMS.

MANUFACTURERS AND DRALERS IN

BUILDER'S HARDWARE

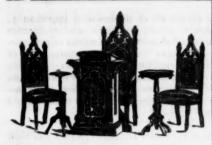
of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings. 20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW. & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

Lounges, Easy Chairs, Patent Reading Chairs,

FACTORY AT EAST CAMBRIDGE.

NEW ENGLAND CABINET ORGAN.

Boston, Dec. 9, 1872.

I consider the Cabinet Organs manufactured by the New England Organ Company fully equal in tone, mechanism, and appearance, to those produced in any establishment in the country; and would call attention to the "soft register," or Dulciana, as being uncommonly delicate and refined.

JOHN A. WILLCOX, Mus. Doc.

Illustrated Catalogues sent free

Address

NEW ENGLAND ORGAN CO.,

1299 Washington Street,

BURNETT'S FLAVORING EXTRACTS.

— The superiority of these extracts consists in their perfect purity and great strength. They are warranted free from the poisonous oils and acids which enter into the composition of many of the factitious fruit flavors now in the market. They are not only true to their names, but are prepared from fruits of the best quality, and are so highly concentrated that a comparatively small quantity only need be used.

RAPHAEL PICTURES. A Series of

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.0." JAMES R. OSGOOD & CO., BOSTOR.

Boston Ornamental Iron Works

MANUPACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING.

IRON CASTINGS,

IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY.

WEATHER VANES.

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON.

NGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest, "The Monarch of the Glen," "High Life," Low Life," Laying bown the Law, "Shoeing the Bay Mare," and others of equal beauty. Quarto. Frice, \$10.00.

hold Furniture, Ornamental Goods of any description used for Interior Decoration or Building Purposes.

or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns

inserted in the

AMERICAN ARCHITECT AND

BUILDING NEWS.

have them executed by the publishers, who will also print

HELIOTYPE CARDS.

and furnish any required number of cuts by the Heliotype Relief

JAMES R. OSGOOD & Co.,

131 Franklin St., Boston.

BIGELOW, KENNARD, & CO.,

511 Washington Street, Boston, OFFER FOR SALE

BRONZE DECORATIVE STATUARY,

WITH PEDESTALS.

PARLOR CLOCKS.

AND

Mantel Furnishing Sets,

BRASS ORNAMENTAL ARTICLES,

with subjects from antique and modern art for Interior Dec-

Rare Porcelain and Parian Goods.

TOSCHI'S ENGRAVINGS. From Frescos

TOSCHI'S ENGRAVINGS. From Frescos
by Correction and Parmetains. Reproduced by the
Hellotype Process from the "Gray Collection of Engravings." Harvard University.
This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia,
Two Deacons, and Saint George. Of Correggio's Frescos, it
includes the Madonna della Scala, Diana in a Chariot, The
Coronation of the Virgin, groups of Cherubs and Angels.
A rare and valuable collection. Quarto. Price, \$18.00.

JAMES B. OSGOOD & CO., Bostor.

HELIOTYPE CARDS.

Thie eard is a specimen of the work executed by the

HELIOTYPE RELIEF

PROCESS

by JAMES R. OSGOOD & Co.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advertise ments, printed circulars, &c. The accompanying design is an example of such a plate engraved by the Relief Process. Artisans of all descriptions, and especially those who manufacture or deal in House



THE BOOK OF AMERICAN INTERIORS. M. W. PEIRCE & CO.,

BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking interiors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and essays on the Library and Dining-Room. Quarto. \$10.00.

HELIOTYPES OF

HELIOTYPES OF

divary of H. W. Longfelow, Esq., Cambridge, Mass.

bining-Boom of Dr. J. R. Chadwick, Boston.

bining-Boom of Dr. J. R. Chadwick, Boston.

birary of Donald G. Mitchell, Esq., West Haven, Conn.

birary of Dr. Thee. F. Breck, Springfeld, Mass.

bining-Room of George Ward Nichols, Esq., Cincinnational Connection of George Ward Nichols, Esq., Cincinnational Control of Major Handson, San Francisco.

birary of George B. Chase, Esq., Boston,

birary of Win. C. Brysant, Esq. Roslyn, L.I.

biddy, Harvard College.

biling Room of James Lee, Jun., Esq., Boston,

brawing Boom of Frof. F. Rogers, Newport, R.I.

divary of John A. Burnham, Jun., Esq., Boston,

bining Room of George James, Esq., Shahont,

bining-Room of George James, Esq., Shahont,

bining-Room of Charles A. Cummings, Esq., Boston,

bining-Room of Charles A. Cummings, Esq., Boston,

bining-Room of Charles, Lesc, Darovers, Mass.

lemortal Hall, Cambridge, Mass.

emortal Hall, Cambridge, Mass.

demorfal Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives helioype views of the interiors of twenty-two rooms and links,
ill but seven of which are in Massachusetts; and all of them
xeept one, Harvard Memorial Hall, nev views from private
seidences. It is apply to the country a convection of the
mprovements that we Americans can make in our homes,
and of the increase of comfort attainable by cultivating the
oo much neelected esthetic side of our natures, and blendng beauty with utility. To every person interested in this
lirection, this volume will prove of inestimable interest and
ralue. It shows what men of culture already have done;
used from these many hints can be taken by all in search of
raidance or information." — Hartford Courant.

* For sale by all Booksellers. Sent, postpaid, on receipt price by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.

STEAM AND GAS FITTERS,

AND DEALERS IN

GAS FIXTURES.

12 SUDBURY, and 109 FRIEND STREET,

THE ART FURNISHING COMPANY,



170 TREMONT STREET, BOSTON,

have one of the largest stocks Plain, Encaustic, and Art Tiles, In the country, and solicit contracts for Tile work in Dwellings and Public Buildings. Hearths, Fireplace Linings, Vestibules, Halls, Bank Floors,

C. A. WELLINGTON.

PROSPECTUS

OF THE

AMERICAN ARCHITECT AND BUILDING NEWS.

DITED B

WILLIAM P. P. LONGFELLOW, FELLOW OF THE AMERICAN INSTITUTE OF ARCHITECTS.

Messrs. James R. Osgood & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architectural pournal, which News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed

from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the fullpage plates, illustrations will be added in the text when

The journal will contain as complete and trustworthy a issues promptly, postage paid.

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

The American Architect and Building News has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in

November, 1875: -

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

The American Architect and Building News will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO., 131 Franklin Street, Boston.

SPECIAL NOTICE.

The American Architect and Building News will be for sale by all respectable booksellers and newsdealers. The public is requested to pay no money to canvassing agents, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

FAMOUS PAINTERS AND PAINTINGS.

BY MRS. JULIA A. SHEDD.

Illustrated with Heliotypes of Engravings after Raphael, Correggio, Titian, Copley, Reynolds, Murillo, and other Celebrated Painters. I vol. 8vo. Red Edges. \$5.00.

A valuable, convenient, and beautiful compendium of information, concerning the most eminent artists and their works.

* For sale by all Booksellers. Sent, post-paid, on receipt of price by the Publishers,

JAMES R. OSGOOD & COMPANY, BOSTON.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

THE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB,

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.

THE

New York Sketch-Book

OF

Architecture.

1876. THIRD YEAR.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE
will be continued for 1876, and will be published with regularity
on the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston,



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 5.7

BOSTON, SATURDAY, JANUARY 29, 1876.

PRICE 15 CENTS.

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE. By J. K. Colling. 1 vol. quarto. 72 plates. \$15.00.

MEDIÆVAL FOLIAGE. By J. K. COL-

11.2 LINO, 1 Vol. quasa.

315.00.

These two volumes by Mr. Colling contain valuable introductory essays on the use of Foliage in Art, with a great number of designs illustrating the various modes in which Foliage has been employed by Architects and Decorators in different ages and nations. In their department these volumes are unrivailed.

GOTHIC FORMS. By B. J. TALBERT. 1 vol. folio. 31 plates. \$15.00.

Designs for Cabinets, Drawing-Room, Dining-Room, Sitting-Room, Bed-Room, and Library Furniture. With an introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scorr, Steer, Collino, and others. I vol. quarto. 44 plates. \$15.00.
Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths, &c.

NOTE-BOOK SKETCHES. Made during a tour in Europe. By ROBERT SWAIN PEABODY. 1 vol. 56.00.

Sketches of Castles, Towers, Spires, Porches, Pillars, Gargoyles, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN. Reproduced by the Heliotype Process.
I vol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to Ameri-an architects for making country houses picturesque as rell as convenient.

LIENARD'S DECORATION AND ORNA.
MENTATION. Specimens of the Decoration and Ornamentation of the Mineteenth Century. By LIENARD Reproduced by the Heliotype Process. Upwards of 13 dealgns, rich in hints to Architects and Decorators. I volfolio, boards, \$27.00. Half morroco, cloth sides, \$30.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. I vol. square 12mo.

"Under the guise of familiar correspondence between architect and his friends are discussed the thousand quitons theoretical and practical, which arise in relation the building of a convenient, comfortable, healthful, taste and inexpensive home, with the modern improvements, source. We counsel any friend of ours, even though he sure he knows just what he wants, to read it before he cides upon his pla s."—New York Christian Advocats.

cides upon his plas."—New Fore Christian Advocats.
"It is a treatise on house-building. So much good sense and good taste on this all-important subject are not often, to our thinking, embraced within an equal compass. Whether the reader is going to build, or not, he will enjoy it vastly; and it has in, he should give it his most diligent attention."—The Compregationalist (Boston).

LLUSTRATED HOMES. By E. C. GARD-

MR. TVol. square 12mo. Illustrated. \$2.00. "Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste slong with good sense in all that relates to the site, the architecture, and the utilities and adornments, of houses." — Christian Intelligencer (New York).

, For sale by all Booksellers. Sent postpaid, on receipt of price by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.

S. A. STETSON & CO., 173 Tremont No. 188 Washington Street, Gas Fitters.

Gilt, Bronze, and Glass Chandellers; Gas Pipe, and Pit-ting in all its Branches.

Architects, Contractors, and Builders furnished with the

ARCHITECTS.

OFFICE OF FRANK W. WESTON,
(Late Weston & Rand) ARCHITECT,
17 Pemberton Square, Boston, Dec. 31, 1876.
The co-partnership of "Weston & Rand," architects, is
this day dissolved by mutual consent, Mr. Rand retiring.

GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architecta, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

J. B. & J. M. CORNELL.

TRON WORK FOR BUILDINGS.

141 CENTER ST., NEW YORK.

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS.

Particular attention given to Repairing and Leasing tates and the Collection of Rents.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET,

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

EDWARD HIXON & CO.

IMPORTERS OF

UPHOLSTERY GOODS.

TRIMMINGS, AND LOOKING GLASSES,

AND MANUFACTURERS OF CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

(NEW No. 364.)

BOSTON.

E. Hixon, Pred. Reed,

PAINTS, ETC.

CARPENTER, WOODWARD, & MORTON,

(BSTABLISHED 1840.)

PURE WHITE LEAD, LINSEED OIL

COLORS,

VARNISHES,

AND PAINTERS' SUPPLIES.

Careful attention given to orders, and goods will be found as represented.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS,

for all kinds of House and other Painting, both outside and inside work.

These colors will change less upon exposure, and prove more durable, than pure White Lead Paints colored in the ordinary way.

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER BEFORE OFFERED.

Manufactured by

WADSWORTH BROTHERS & HOWLAND,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masusy & Son's Fine Colors, Charles Palm & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

MONS. C. J. SOYARD, formerly 12 West

FURNITURE, WOOD MANTELS,

AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

3 "A" BEACON STREET, NEAR TREMONT, BOSTON.
Shops in Albany Street.

FULLER, DANA, & FITZ,

110 North Street, Boston.

METAL MERCHANTS,

Importers of

ROOFING PLATES

AND IRON.

USED IN BUILDINGS.

Exclusive Boston Agents for the sale of THE UNION IRON MILLS. Solid WROUGHT IRON BRAMS, and THE E. Hixon, jun. "Bunden Best" Inon, Tensile Strength 78,000 lbs.

Paine's Manufactory

Furniture Sale.

141 Friend and 48 Canal Streets.

We are now furnishing in beautiful design and superior workmanship, French, German, and Danish Furniture and Ornamental Pieces of rare beauty; also Cabinet Work designed and manufactured by us in Parlor Sets, upholstered with pure South American hair, covered with French or German Brocades. Plush, Silk, or English Hair Seating in Colors, a new article, recently imported. Also Chamber, Library, and Drawing-Room Furniture, of very pretty designs and finish, at low prices. PAINE'S Manufactory, 141 Friend, 48 Canal Streets, Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS

440 TREMONT STREET, BOSTON, MASS,

PROPOSALS.

CITY OF BOSTON. Sealed Proposals will be received at the office of City Architect until TUES-BAY, Feb. 1, at 12 o'clock, M., for farmishing all materials and doing all the labor required to build and complete an Engine House of wood on Mi. Yernon St., Ward 23.

Proposals to be addressed to the undersigned, and endorsed Proposals for Building Engine House, West Robury."

The Committee reserve the right to reject any or all preposals received.

For plans and specifications, apply at the Office.

For the Committee.

WILLIAM POPE, Chairman

Providence County Court House.

PROPOSALS FOR MASON WORK.

SEALED PROPOSALS for the Mason Work Some required in building the Providence County Court House will be received at the office of Stone & Carpenter, Architects, No. & Westminster Street, until 12 a. of the seventh day of February 1876. Lithographed plans and printed specifications and forms for proposals may be obtained of the Architects.

gioners reserve the right to reject any and all

AMASA 8. WESTCOTT, EDWIN DARLING, THOMAS P. SHEPARD, Commissioners. THOMAS P. SHEPARD, Providence, Jan. 8, 1876.

Providence County Court House.

PROPOSALS FOR CARPENTER WORK.

SEALED PROPOSALS for the Carpenter Work required in building the Providence County Court House will be received at the office of Stone & Carpenter, Architects, No. 65 Westminster Street, until 12 x. of the fourteenth day of February, 1876. Lithographed plans and printed specifications and forms for proposals may be obtained of the Architects.

The Commissioners reserve the right to reject any and all proposals.

AMASA S. WESTCOTT, Commissioners.

EDWIN DARLING. Commissioners.
THOMAS P. SHEFARD. Commissioners.
Providence, Jan. 15, 1878.

THE STORY OF A HOUSE. Illustrated by the Author. Translated by GRORGE M. TOWLE. I vol. 8vo. bevoled boards, red edges, \$5.00.

"The basis of the story is the building of a château on the true principles of architecture. The chief characters are M and Mme. Gaudalau; their newly married daughter, for whom a new château is to be built during her absence on the wedding tour; their son Paul, aged sixteen; and a cousin Eugene, who is an architect. Their practical assistant is Master Branchu, a shrewd builder's foreman, or small convente when heads the property whose book showly limited, but who always. Master Branchu, a shrewd builder's foreman, or small con-tractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical ques-tions and objections which puzzle his architect. Another prominent character is Monsieur Durosay, a friend of the family, who has read and travelled much, and known a little of every thing. He has been his own architect, and has built a very costly house which has fallen to pieces; his own engineer, and made impracticable roads on his own estate; and he likes to consider himself an infallible judge in mat-ters of all kinds; he has theories and is a confident critic ters of all kinds; he has theories, and is a confident critic

ters of all kinds; he has theories, and is a confident critic on all subjects.

"With such varied characters for his mouthpieces, the author is able to lend fresh attractions to the study of his beautiful art, to point out the difficulties and prejudices and misuanderstandings to which architects are exposed, to discuss his pet theories, and impress his favorite rules, without suspicion of egotism; and all this through the medium of piquant conversations, by which the reader is so well entertained that he forgets he is being instructed. The unpretentions earnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic illustrations prepared by the same master hand, make this latest work of Monsieur Violiet-le-Duc the most attractive teax-book of architecture that has ever come attractive text-book of architecture that has ever come nder our notice." - American Builder (New York).

ANNALS OF A FORTRESS. Translated by Berlamin Buckwall, Architect. I volume 8vo. Eighty-five fillustrations, several in Colors. \$5.60.

"M. Violiet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and fiscinating writer. His 'Story of a House 'displayed his taste in the first capacity. His 'Annais of a Fortreas' exhibits his genius in the second; while his skill in the third is strikingly illustrated in both of these exceptionally handsome volumes. In the last named this gifted and brilliant author describes the locating, planning, erecting, and defending through seven successive sieges, of an imaginary fortification on the River Cousin', an affinent of the Saône in France. Each chapter in its history is set forth with the greatest elaboration and strictest regard to the technics of the art of war, so that the effect is that of a vertiable marrative, or more property, perhaps, of a scientific review." Bosico Congregationalist.

"Those who read the book through carefully, by the help

"Those who read the book through carefully, by the help of the beautiful illustrations with which it is lavishly embedished, will not only obtain an excellent idea of the spirit of modiswal architecture, but a better knowledge of the art of fortification from the carliest ages up to recent times than could be found in any other way short of the research and study which the author has himself given to the matter. M. Violici-le-Duc is misster of the subject, and imparts his learning in a thoroughly fascinating manner." — Saturday Review (London),

"He has made of his history of the art of fortification as once a valuable hand-book and a very charming romance; a work that combines amusement with instruction in a very rare degree. —Pall Mall Gazette.

"One of the most charming, and at the same time practical, books of modern times, devoted to military science."
Army and Navy Journal.

DISCOURSES ON ARCHITECTURE. —
Translated, with an Introductory Essay, by HENRY
VAN BRUNK, Fellow American Institute of Architects. Fully illustrated. 1 vol. royal 8vo., 48.00.

Van Brunt Fellow American Institute of Architects. Fully illustrated. I vol. royal 8vo., \$8.00.

"We have no hesitation in saying deliberately, and without qualification, that no work of any thing like equal value to American architects has ever been published in this country,—none from the study of which they and all lovers of art may derive so many, so durable, and so important lessons for the elevation and perfection of their art.

"Those who are engaged in the study of architecture as amateurs, and those who are practising it as a profession, or who are preparing to do so, will gather an intelligent idea or the study of a stud

VIOLLET-LE-DUC'S WORKS. THE PEERLESS FURNACE.

Chapel Station

Brookline, Dec. 3, 1875.

MESSES. PRATT & WENTWORTH. - I ion't think it necessary to overpraise a goo well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double wir no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations.

Truly yours,

AUTOMATIC CRYSTAL FOUNTAIN.

Self-Acting - Requiring no Pressure of Water.



Ruby Glass Basin and Globes mounted on a Golden Bronze Standard, with polished Marble Base. For the Parlor, Diningroom, Library, Conservatory, Store Counter, Show Window, etc. Especially adapted to purify the air in the sick-room.

The addition of Cologne to the water makes it a delightful

PERFUME FOUNTAIN.

Height to top of basin, 21 ins.

Diameter of basin . . 10 "

Height of stream . . . 8 "

Price complete, \$15. Feb. 7, 1871.

Address for Descriptive Circular,

JAMES W. TUFTS,

33 to 39 Bowker Street, BOSTON.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Be A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

Lounges, Easy Chairs, Patent Reading Chairs, Student Chairs, &c., &c.

FACTORY AT EAST CAMBRIDGE.

HELIOTYPE CARDS.

This card is a specimen of the work executed by the

HELIOTYPE RELIEF

PROCESS

by JAMES R. OSGOOD & Co.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advertisements, printed circulars, &c. The accompanying design is an example of such a plate engraved by the Relief Process. Artisans of all descriptions, and especially those who manufacture or deal in House

Interior Painters

WALLBURG & SHERRY.

and Decorators

Of Houses, Churches,

and Public Buildings.

No. 136 Harrison Avenue, Boston.

THE

NEW ENGLAND CABINET ORGAN.

BOSTON, Dec. 9, 1872. I consider the Cabinet Organs manufactured by the New England Organ Company fully equal in tone, mechanism, and appearance, to those produced in any establishment in the country; and would call attention to the "soft register," or Duiclana. as being uncommonly delicate and refined.

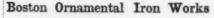
JOHN A. WILLCOX. Miss. Doc.

Illustrated Catalogues sent free.

Address

NEW ENGLAND ORGAN CO., 1299 Washington Street,

BOSTON, MASS.



MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING.

IRON CASTINGS,

IRON STABLE FIXTURES.

FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES.

AND RUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON

ENGRAVINGS FROM LANDSEER.

J. NG-RAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Arist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillinghum Red Deer," "The King of the Forest, "The Monarch of the Gien," "High Life," "Low Life," "Laying Downthe Law," "Shoeing the Bay Mare," and others of equal beauty, Quarto. Price, 816.0.

JAMES R. OSGOOD & CO., BOSTON.

hold Furniture, Ornamental Goods of any description used for Interior Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND

BUILDING NEWS,

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS,

and furnish any required number of cuts by the Heliotype Relief

James R. Osgood & Co.,

131 Franklin St., Boston.



THE BOOK OF AMERICAN INTERIORS. M. W. PEIRCE & CO.,

BY CHARLES W. ELLIOTT.

ontaining views of twenty-two striking lateriors rating in this country, and about thirty smaller liftons. With descriptive letter-press and emays on rary and Dining-Room. Quarto. \$10.00.

HELIOTYPES OF

HELIOTYPES OF

HELIOTYPES OF

Library of H. W. Longfellow, Eq., Cambridge, Mass.

Dining-Room of Dr. J. R. Chadwick, Boston.

Library of Donald G. Mitchell, Esq., West Haven, Conn.

Library of Donald G. Mitchell, Esq., West Haven, Conn.

Library of Donald G. Mitchell, Esq., West Haven, Conn.

Library of Dr. Herck.

Dining-Room of George Ward Nichola, Esq., Cincinnatl.

Great Hall of Major Rathbone, San Francisco.

Library of George B. Chasse, Esq., Boston,

Dining-Room of Hon. J. V. L. Pruyn,

Library of Wm. C. Bryant, Esq. Roslyn, L.I.

Study, Harvard College.

Dining Room of John A. Burnham, Jun., Esq., Boston.

Drawing Room of Port. F. Rogers, Newport, R.I.

Library of John A. Burnham, Jun., Esq., Boston.

Dining-Room of John A. Burnham, Jun., Esq., Boston.

Dining-Room of George James, Esq., Nabaut.

Hall of Charles S. Sargent, Esq., Brockline, Mass.

Dining-Room of George W. Wales, Esq., Boston.

"Hall of Prancis Peabody, Esq., Danvers, Mass.

Memorist Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives he

"This book is as unique as it is interesting.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives heliotype views of the interiors of twenty-two rooms and halls, all but seven of which are in Massachusetts; and all of them residences. It is happly it from various causes there residences. It is happly true that from various causes there is now apreading through the country a conviction of the improvements that we Americans can make in our homes, and of the increase of comfort attainable by cultivating the too much neglected esthetic side of our natures, and blending beauty with utility. To every person interested in this direction, this volume will prove of inestimable interest and value. It shows what men of culture already have done; and from these many hints can be taken by all in search of guidance or information."—Hartford Courast.

* For sale by all Booksellers. Sent, postpaid, on receipt price by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.

STEAM AND GAS FITTERS,

AND DEALERS IN

GAS FIXTURES.

12 Supsury, and 109 FRIEND STREET,

BOSTON.

CHARLES WOODBERRY & SON, MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors. Architectural Plans, Detail Drawings and Specifications: Fire Insurance Adjusters between Insurance Companies, Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

BIGELOW, KENNARD, & CO.,

511 Washington Street, Boston,

OFFER FOR SALE

BRONZE DECORATIVE STATUARY,

WITH PEDESTALS.

PARLOR CLOCKS.

AND

Mantel Furnishing Sets, BRASS ORNAMENTAL ARTICLES.

with subjects from antique and modern art for Interior Dec-

Rare Porcelain and Parian Goods.

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET,

PAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France.

This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Volume contains twenty-four Plates, including Parmegiano's Saint Agaitha, Saint Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Correggio's Freeces, the Budgets represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., Bostox.

PROSPECTUS

F THE

AMERICAN ARCHITECT AND BUILDING NEWS.

DITED BY

WILLIAM P. P. LONGFELLOW,

Messes. James R. Osgood & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architectural pournal, which News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archieology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the fullpage plates, illustrations will be added in the text when

The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

The American Architect and Building News has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:—

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

The American Architect and Building News will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO.,

131 Franklin Street, Boston.

SPECIAL NOTICE.

The American Architect and Building News will be for sale by all respectable booksellers and newsdealers. The public is requested to pay no money to canvassing agents, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECOR ATIONS

FOR

Churches, Halls,

Private Residences,

ETC., ETC., ETC.

P'A'BUTLER OF PRESCO ARTIST, PEMBERTON SOR... BOSTOR.

LIBERAL ESTIMATES

AND DESIGNS

MADE FOR

S Fresco Painting

and Decorations

IN ALL VARIETIES.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

THE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB,

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.

New York Sketch - Book

OF

Architecture.

1876.

THIRD YEAR.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity on the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.





A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 6.]

BOSTON, SATURDAY, FEBRUARY 5, 1876.

[PRICE 15 CENTS.

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO., BOSTON.

The Libra. I vol. quantity to person the person of the person of the use of Foliage in Art, with a great number of designs illustrating the various modes in which number of designs illustrating the various modes in which number of the person of the perso

COTHIC FORMS. By B. J. TALBERT. 1 vol. follo. 31 plates. \$15.00.

Designs for Cabinets, Drawing-Room, Dining-Room, Sitting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scott. Street, Colling, and others. 1 vol. quarto. 64 plates. \$15.00.

Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths, &c.

NOTE-BOOK SKETCHES. Made during a tour in Europe. By ROBERT SWAIN PRABODY. 1 VOL.

5010. \$5.00.
Sketches of Castles, Towers, Spires, Porches, Pillars, Gargovies, Cressets, Fountains, Windows, Churches, and Bumerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantons. Drawn and engraved by A. and E. Varin. Reproduced by the Heliotype Process. 1 vol. quarto. Boards \$12.00.

This attractive volume abounds in suggestions to Amean architects for making country houses pictures quiwell as convenient.

LIENARD'S DECORATION AND ORNA-memetation of the Nineteenth Century. By Liesardo. Reproduced by the Heliotype Process. Upwards of 120 designs, rich in hints to Architects and Decorators. I vol. folio, boards, \$27.00. Haif morocco, cloth sides, \$90.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Hilustrated. 1 vol. square 12mo.

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretics and practice of the state of the

ILLUSTRATED HOMES. By E. C. GARD-RER. 1vol. square 12mo. Illustrated. \$2.00.

"Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste along with good sense in all that relates to the site, the architecture, and the utilities and adommenta, of houses."—Christian Intelligencer (New

• • For sale by all Booksellers. Sent postpaid, on receipt of price by the Publishers,

JAMES B. OSGOOD & CO., BOSTOB.

S. A. STETSON & CO., 173 Tremont
S. Street, Boston.
GAS FITTERS.
Gilt, Bronze, and Glass Chandellers; Gas Pipe, and Fitting in all its Branches.
Architects, Contractors, and Builders furnished with the lowest estimates.

ARCHITECTS.

OFFICE OF FRANK W. WESTON, ARCHIT

ART FOLIAGE. By J. K. Colling. 1 vol.

The co-partnership of "Weston & Rand," architects, is quarto. 72 plates. \$15.00.

MEDIÆVAL FOLIAGE. By J. K. COL-GRIDLEY J. F. BRYANT AND LOUIS

Of P. ROGERS Architects 17 Pemberton Sq. Roston.

CHARLES D. WOODBERRY, Architect, office 19 Broad, corner Central Street, Boston.

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architecta, 16 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

J. B. & J. M. CORNELL.

IRON WORK FOR BUILDINGS,

141 CENTRE ST., NEW YORK.

L. HABERSTROH,

PRESCO PAINTER,

No. 12 SCHOOL STREET, BOSTON.

S. P. TOLMAN & E. A. HUNTING,

GENERAL AGENTS.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET,

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

INPORTERS OF

EDWARD HIXON & CO.

UPHOLSTERY GOODS,

TRIMMINGS, AND LOOKING GLASSES.

AND MANUFACTURERS OF CABINET FURNITURE, Of the latest Styles and Most Thorough Workmanship.

BOSTON.

Fred. Reed,

ROOFING. An article indorsed by most experienced Architects and Builders. as combining beauty and durability with fire-proof qualities and cheapness to an extraordinary degree, is a valuable aid in building or repairing roofs, every community must hall with satisfaction, particularly where piers, factories, rolling-mills, and general manufacturing establishments are located. Its testimestigation of all numerous, reliable; well worth, the most are all the satisfaction of the satisfaction, either as an order of the most and preserve, or a new one to lay; an article free from tar, ready for use, low price, and easily applied with positive satisfaction, either as an ornament or for effectually stopping every leak. Proving the most conomical roofing known to modern invention or skill, and having so many sterling poir ts, it has achieved such a wide-spread popularity and unrivalled reputation as to be in active demand throughout the United States; its patrons are thousands, and the production not only exceeds in magnitude that of all other similar roofing combined, but is unequalled in quality. Complete materials for a new steep or flat roof casts but 4.1-3 cents a square foot, and the strict unites beauty with utility. These goods are commercially known as Gilne's Rubber Roofing and Slate Roofing Company, limited, 3 Cedar Street, N. Y.; 49 So. Front Street, Phila. Their prices are very low and estimates free. Samples and 100 page book malled any one stating where they saw this notice. Write at ozec.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS.

for all kinds of House and other Painting, both outside and inside work.

These colors will change less upon exposure, and prove nore durable, than pure White Lead Paints colored in the ordinary way.

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER BEFORE OFFERED.

Manufactured by

WADSWORTH BROTHERS & HOWLAND.

Importers and dealers in Paints, Oils, and Chemicais.

Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

BUILDERS, BEAL ESTATE IMPROVERS, AND

Agents for John W. Masury & Son's Fine Colors, Charles
Palm & Co. 's Transfer Ornaments, California Pumice Stone,
Reno's French Umber, ad Adamtic Lead.

Particular attention given to Repairing and Leasing ELECTRIC BELL, AND ANNUNCIATORS, states and the Collection of Rents.

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER, 63 Devonshire Street, Boston.

MONS. C. J. SOYARD, formerly 12 West

FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABISET WORKS OF EVERY DESCRIPTION.

2 "A" BEACON STREET, NEAR TREMOST,
BOSTON.
Shops in Albany Street.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS,

ROOFING PLATES AND IRON,

USED IN BUILDINGS.

Exclusive Boston Agents for the asle of The Union Iron Mills. Solid Whought Iron Brams, and The E. Hixon, Jun. "Bunden Bret" Iron, Tensile Strongth 75,000 lbs.

Paine's Manufactory Furniture Sale.

141 Friend and 48 Canal Streets.

We are now furnishing in beautiful design and superior workmanship, French, German, and Danish Furniture and Ornamental Pieces of rare beauty; also Cabinet Work designed and manufactured by us in Parlor Sets, upholstered with pure South American hair, covered with French or German Brocades, Plush, Silk, or English Hair Seating in Colors, a new article, recently imported. Also Chamber, Library, and Drawing-Room Furniture, of very pretty designs and finish, at low prices. PAINE'S Manufactory, 141 Friend, 48 Canal Streets. Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

MASS, INSTITUTE OF TECHNOLOGY, This school offers a four-years' scientific and profes al training for Chemista, Metallurgista, Civil, Mechani and Mining Engineers, Architects, Teachers of Science

sional training for Chemisson, Architects, Teacherson and Mining Engineers, Architects, Teacherson and Manufacturers.

The Course is Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original architectural history, and the constant practice of original

gn.
secial students in Architecture are received into a twos' special course.
or particulars address William R. Warr, Esq., Pro-Special students in Architecture are recurred in the years' special course.

For particulars address William R. Ware, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary.

Bostow, Feb. 1, 1876.

PROPOSALS.

Providence County Court House.

PROPOSALS FOR MASON WORK.

SEALED PROPOSALS for the Mason Work Or required in building the Providence County Court House will be received at the office of Stone & Carpenter, Architects, No. 65 Westminster Street, until 12 m. of the seventh day of February, 1876. Lithographed plans and printed specifications and forms for proposals may be obtained of the Architects.

The Commissioners reserve the right to reject any and all

AMASA S. WESTCOTT, EDWIN DARLING, THOMAS P. SHEPARD, Stone & Carpenter, Architects. Providence, Jan. 8, 1876.

Providence County Court House.

PROPOSALS FOR CARPENTER WORK.

SEALED PROPOSALS for the Carpenter Work required in building the Providence County Court Horsewill be received at the office of Stone & Carpenter, Architects, 80. 63 Westuninster Street, until 12 n. of the fourted specification many, 1878. Lithographed plans and tained of the Architects, forms for proposals may be obtained of the Architects.

The Commissioners reserve the right to reject any and all proposals.

AMASA S. WESTCOTT, EDWIN DARLING, THOMAS P. SHEPARD, Providence, Jan. 15, 1876.

VIOLLET-LE-DUC'S WORKS.

THE STORY OF A HOUSE. Illustrated by the Author. Translated by Greege M. Towle. I vol. 8vo. beveled boards, red edges, \$5.00.

I vol. 8vo. beveled boards, red edges, \$5.00.

"The basis of the story is the building of a châtean on the true principles of architecture. The chief characters are M. and Mme. Gaudalau; their newly married daughter, for whom a new château is to be build during her absence on the wedding tour; their son Paul, aged sixteen; and a counting Eugene, who is an architect. Their practical assistant is Master Branchu, a shrewd builder's foreman, or small contractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical questions and objections which puzzle his architect. Another prominent character is Monaicar Durosay, a friend of the family, who has read and travelled much, and knows a little mily, who has read and travelled much, and knows a little of every thing. He has been his own architect, and has built a very costly house which has fallen to pieces; his own engineer, and made impracticable roads on his own estate; and he likes to consider himself an infallible judge in mat-ters of all kinds; he has theories, and is a confident critic on all subjects.

"With such varied characters for his mouthpieces, the au-"With such varied characters for his mouthpieces, the author is able to lend fresh attractions to the study of his
beautiful art, to point out the difficulties and prejudices and
misunderstandings to which architects are exposed, to dis
cuss his pet theories, and impress his favorite rules, without
suspicion of egotism; and all this through the medium of
piquant conversations, by which the reader is so well enterined that he forgets he is being instructed. The unpre est, simple wisdom, and sound pr tentious earnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic illustrations prepared by the same master hand, make this latest work of Monsieur Violiet-le-Duc the most attractive text-book of architecture that has ever come under our notice."—American Builder (New York).

ANNALS OF A FORTRESS. Translated by Benjamir Buckhall, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

ighty-five illustrations, several in colors.

"M. Violiet-le-Due is an accomplished architect, an able nilitary engineer, and an ingenious and fuscinating writer. In 'Story of a House' displayed his taste in the first capatry. His 'Annais of a Fortress' exhibits his genius in the econd; while his skill in the third is strikingly illustrated in oth of these exceptionally handsome volumes. In the last amed this gifted and brilliant author describes the locating, lanning, erecting, and defending through seven successive leges, of an imaginary fortification on the River Cousin, an filtuent of the Sodie in France. Each chapter in its history a set forth with the greatest elaboration and strictest regard of the technics of the art of war, so that the effect is that fa veritable narrative, or more properly, perhaps, of a clientific review."—Bosion Congregationalist.

"Those who read the book through carefully, by the help of the beautiful illustrations with which it is lavishly embellished, will not only obtain an excellent idea of the spirit of medisaval architecture, but a better knowledge of the art of fortification from the earliest ages up to recent times than could be found in any other way short of the research and study which the author has himself given to the matter. M. Violiet-le-Duc is master of the subject, and imparts his learning in a thoroughly fascinating manner." — Saturday Review (London).

"He has made of his history of the art of fortification at nee a valuable hand-book and a very charming romance; work that combines anneament with instruction in a ery rare degree. — Pall Mail Gazette.

"One of the most charming, and at the same time practi-cal, books of modern times, devoted to military science."— Army and Navy Journal.

DISCOURSES ON ARCHITECTURE. Translated, with an Introductory Essay, by Henry Van Brint, Fellow American Institute of Architects. Fully illustrated. 1 vol. royal 8vo., \$8.00.

Var Butsar, Fellow American Institute of Architecta: Fully illustrated. I vol. royal 8vo., \$8.00.

"We have no hesitation in saying deliberately, and without qualification, that no work of any thing like equal value to American architects has ever been published in this country, none from the study of which they and all liovers of art may derive so many, so durable, and so important leasons for the elevation aungaged in the study of architecture as amateurs, and those who are practising it as a profession, or who are preparing to do so, will gather an intelligent idea of the scope of this suggestive and instructive work from a synopais of the subjects treated upon in the ten discourses which compose this stately volume. They are as follows:

I. What is Barbariam? What is Art? What are the Relations of Art to Civilization? What are the Social Conditions most favorable to the Development of Art? 2. Primitive Methods of Construction as practised in Greek Architecture. 3. Comparison between the Architecture of the Greeks and Romans. 4. The Architecture of the Romans. 5. The Methods to be followed in the Study of Architecture of the Ancients. 6. The Decline of Ancient Architecture of the Ancients. 6. The Decline of Ancient Architecture of the Ancients. 6. The Decline of Ancient Architecture of the Methods to be followed in the Notein Architecture of the Methods to be followed in the Notein Architecture of the Ancients. 6. The Architecture of the West since the Establishment of Child Middle Ages. 8. The Causes of the Decline of Architecture. 10. The Architecture of the West since the Establishment of Child Middle Ages. 8. The Causes of the Decline of Architecture. 10. The Architecture of the West since the Establishment of Child Middle Ages. 8. The Causes of the Decline of Architecture. 10. The Architecture of the Methods and all from the most perfect specimens known in the history of the art, and among which are from rare subjects, and all from the most perfect specimens known in the history of the art, and among wh

, For sale by Booksellers. Sent postpaid, on receipt of 23 Murray St., and 27 Warren St., N.Y. price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co., Manufacturers and dealers in

PARLOR FURNITURE.

Lounges, Easy Chairs, Patent Reading Chairs,

FACTORY AT EAST CAMBRIDGE.

THE PEERLESS FURNACE.

Brookline, Dec. 3, 1875.

MESSRS. PRATT & WENTWORTH, - 1 don't think it necessary to overpraise a goo thing; but, when one enjoys great comfort, it is

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double windows, and no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, durin wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations

Truly yours,

Wood and its Uses.

A Handbook for the use of

Contractors, Builders, Architects, Engineers, Timber Merchants, &c.

With information for drawing up Designs and Estimates.

Illustrated by over 250 Illustrations. 8vo, Cloth, \$1.50.

D. Van Nostrand, Publisher,

, Copies sent free by mail on receipt of price.

BURDITT & WILLIAMS.

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MARUFACTORY 19 WARRHAM STREET.

BIGELOW, KENNARD, & CO.

511 Washington Street, Boston,

BRONZE DECORATIVE STATUARY,

WITH PEDESTALS.

Mantel Furnishing Sets, BRASS ORNAMENTAL ARTICLES.

with subjects from antique and modern art for Interior Dec-orations, also

Rare Porcelain and Parian Goods.

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Hellotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advernts, printed circulars, &c. Artisans of all descriptions, and especially those who manre ordeal in Household Furniture, Orna mental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND BUILDING NEWS.

ean furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS.

and furnish any required number of cuts by the Heliotype Relief Process.

JAMES R. OSGOOD & Co.,

131 Franklin St., Boston.

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET,

BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Correction and Parmegiano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia,

WALLBURG & SHERRY,

Interior Painters and Decorators

Of Houses, Churches,

and Public Buildings.

No. 136 Harrison Avenue, Boston.

THE

NEW ENGLAND CABINET ORGAN

BOSTON, Dec. 9, 1872 I consider the Cabinet Organs manufactured by the New I consider the Cabinet Organs manufactured by the New England Organ Company fully equal in tone, mechanism, and appearance, to those produced in any establishment in the country; and would call attention to the "soft register," or Dulciana, as being uncommonly delicate and refined. JOHN A. WILLCOX. Mus. Doc.

Illustrated Catalogues sent free.

Address

NEW ENGLAND ORGAN CO.,

1299 Washington Street,

BOSTON, MASS



※Nº.8.HOTELPELHAM, TREMONT STREET※ CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Constru-tors, Architectural Plans, Detail Drawings and Specification Fire Insurance Adjusters between Insurance Companie Owners or Occupants, in case of Fire or Damage; Estimate given for all Trades in Building, &c.

RAPHAEL PICTURES. Ings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia,
Two Deacons, and Saint George. Of Correggio's Freecos, it
includes the Madonna della Scala, Diana in a Charlot, The
Coronation of the Virgin, groups of Cherubs and Angels.

A rare and valuable collection. Quarto. Price, \$10.00.

JAMES B. OSGOOD & CO., BOSTON.

JAMES B. OSGOOD & CO., BOSTON.

Boston Ornamental Iron Works

MANUPACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING,

IRON CRESTINGS.

IRON STABLE FIXTURES,

VASES.

GARDEN STATUARY

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send for Catalogue.

BUBIER & COMPANY.

118 MILE STREET, BOSTON.

ENGRAVINGS FROM LANDSEER. Re-PNGRAVINGS FROM LANDSEER, Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest," "The Monarch of the Gien," "High Life," "Low Life," "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty, Quarto. Price, \$16.00.

JAMES R. OSGOOD & CO., BOSTOM.

THE BOOK OF AMERICAN INTERIORS.

BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking in-teriors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and casays on the Library and Dis-ing-Room. Quarto. \$10.00.

HELIOTYPES OF

Library of H. W. Longfellow, Esq., Cambridge,

Mass. hing-Room of Dr. J. R. Chadwick, Boston. grary of Donald G. Mitchell, Esq., West Hav-en, Conn. en, Conn. Library of Dr. Theo. F. Breck, Springfield, Mass. Dining-Room of Dr. Breck. Dining-Room of George Ward Nichols, Esq., Cincinnati.

Cincinnati.

at Hall of Major Rathbone, San Francisco.

rary of George B. Chase, Esq., Bos.on,

ling-Room of Hon. J. V. L. Fruyn, Albany,

ining Room of Hon. J. V. L. Fruyn, Aibany, N.Y.
Inne-Room of Hon. J. V. L. Pruyn,
brary of Wm. C. Bryant, Esq. Rosyln, L.L.
udy, Harvard College,
ining Room of James Lee, jun., Esq., Boston,
rawing Room of Prof. F. Rogers, Newport,
R.I.

K.I. Library of John A. Burnham, jun., Esq., Boston. Dining Room of John A. Burnham, jun, Esq., Boston. Boston.

Dining-Room of George James, Esq., Nahent.
Hall of Charles S. Sargent, Esq., Brookline,
Mass.

Mass.
Dining-Room of Charles A. Cummings, Eaq.,
Boston.
Dining-Room of George W. Wales, Esq., Boston,
Hall of Francis Peabody, Esq., Danvers, Mass.
Memorial Hall, Cambridge, Mass.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives heliotype views of the interiors of twenty-two rooms and halls, all but seven of which are in Massachusetts; and all of them except one, Harvard Memorial Hall, are views from private residences. It is happily true that from various causes there is now spreading through the councass can make in our homes, and of the increase of comfort attainable by cultivating the too much neglected easthetic side of our natures, and blending beauty with utility. To every person interested in this direction, this volume will prove of inestimable interest and value. It shows what men of culture already have done; and from these many hints can be taken by all in search of guidance or information."—Hartford Courast.

"**Per rale by all Booksellers. Seat. post-

, For sale by all Booksellers. Sent, post-paid, on receipt of price by the Publishers. JAMES R. OSGOOD & CO., BOSTON

W. PEIRCE & CO.,

STEAM AND GAS FITTERS,

AND DEALERS IN

GAS FIXTURES.

12 SUDBURY, and 109 FRIEND STREET,



CATALOGUE OF Architectural Books

Mailed free to any address. All architectural and Scientific Books pplied at publishers' prices,

A. J. BICKNELL & CO., ABCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

AMERICAN ARCHITECT AND BUILDING NEWS.

WILLIAM P. P. LONGFELLOW,
OF THE AMERICAN INSTITUTE OF ARCHITECTS.

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architectural journal, which News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural isometrics. able foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the fullpage plates, illustrations will be added in the text when

The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the AMERICAN INSTITUTE OF ABCHITECTS, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:-

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO... 131 FRANKLIN STREET, BOSTON.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

Churches, Halls,

Private Residences.

ETC., ETC., ETC.



AND DESIGNS

S Fresco Painting and Decorations

IN ALL VARIETIES.

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

E ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of ME

THE PORTFOLIO CLUB.

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.

New York Sketch-Book

Architecture.

THIRD YEAR. 1876.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity on the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.





VOL. I. No. 7.7

BOSTON, SATURDAY, FEBRUARY 12, 1876.

[PRICE 15 CENTS.

TO ARCHITECTS, ETC. PROPOSALS.

Any person or corporation wishing to invite competitive

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address Architects through the advertising columns of the "ARERICAN ARONI-TECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorat-ers, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

CITY OF BOSTON.

PROPOSAL FOR SEWER PIPE.

Proposals will be received at Sewer Department, (Hall, till March I, for the whole or any part of 20,000 fee twelve-inch Vitrified Sewer Pipe, including 1,000 six-in branches.

ranches.

Apply as above for specification and form of proposal.

The right reserved to decline all bids. Indorse bids, "Proosals for Sewer Pipe," and address to

CLINTON VILES,

Chairman Committee on Sewers.

PROPOSALS FOR CAST IRON WATER

CITY OF BOSTON, CITY HALL, COCRITUATE WATER BOARD OFFICE, Feb. 1, 1876.

Sealed Proposals will be received at this office until 12 e*clock M. of WEDNESDAY, the leth day of February, 1876, for separate contracts, to be indorsed as follows: let, "Proposals for Cast Iron Water Pipes for the Sudbury River Conduit;" 2d, "Proposals for Cast Iron Water Pipes."
And at that time and place they will be publicly opened and

and at that time and place they will be publicly opened and read.

Bidders are required to state in their proposals, their names and places of residence. Each bid must be signed by the bidder, and accompanied by a written bond for \$1,000 of a responsible person, giving his place of business or residence, and conditioned for the execution of the contract (with astisfactory security for its performance) within the time specified in this advertisement in case the bid be accepted or, in lieu of the bond aforesald, a sum of money or other astisfactory collateral security in the same amount may be deposited with asid Water Board.

The person to whom the contract may be awarded will be required to execute the contract within four days (not including Sunday) from the date of notification of such award, and the preparation and readiness for signature of the contract.

The Astivery of nines on the first contract to commence on

eluding Sunday) from the date of notification of such award, and the preparation and readiness for signature of the contract.

The delivery of pipes on the first contract to commence on May 1, 1876; on the second contract, as soon as navigation opens in the spring of 1878; and both contracts are to be compending the spring of 1878; and both contracts are to be compending to the spring of 1878; and both contracts are to be compared, is as follows:

First Contract.

1890 tons of 48-inch pipe.
45 tons of 69-inch pipe.
45 tons of of pecial castings.

Second Contract.

1890 tons of 12-inch pipe, class "B."
530 tons of 12-inch pipe, class "B."
530 tons of 12-inch pipe, class "B."
54 tons of special castings.

Specifications may be obtained and plans seen at the office of the City Engineer, City Hall, Boston.

Bandous of the City Engineer, City Hall, Boston.

Bandous of the spring of the contract.

The sureties of the bond for the contract.

The sureties of the bond for the contract.

The water Board reserves the right to reject any or all bids should it deem it to be for the interest of the City of Boston so to do.

L. MILES STANDISH,

President Cochutant Water Board.

CITY OF BOSTON. Sealed Proposals will be received at the Office of City Architect until TUESDAY, Feb. 15, 1876, at 12 o'clock, M., for furnishing all materials and doing ait the labor required to build and complete a Grammar School Building, situated on Ashland Street, near Washington Street, West Boxbury.

Separate proposals required for Masonry and Carpentry. Proposals to be addressed to the undersigned, and indorsed "Proposals for building Grammar Schoolhouse, Florence District, Ward 23."

The Committee reserve the right to reject any or all proposals received. For plans and specifications, apply at the office.

Por the Committee,

For the Committee, WILLIAM POPE, Chairman.

PROVIDENCE COUNTY COURT HOUSE PROPOSALS FOR IRON WORK.

Sealed proposals for the Iron Work required in building the Providence County Court House will be received at the the Providence County Court House will be received at the office of Stone & Carpenter, Architects, No. 68 Westminster Street, until 12 m. of the eighteenth day of February, 1876. Lithographed plans and printed specifications and forms for proposals may be obtained of the Architects.

The Commissioners reserve the right to reject any and all

proposals.

AMASA S. WESTCOTT, EDWIN DARLING, THOMAS P. SHEPARD, Stone & Carpenter, Architecta.

ARCHITECTS.

OFFICE OF FRANK W. WESTON,
(Late Weston & Ramb) Architect,
17 Pemberton Square, Boston, Dec. 31, 1875.
The co-partnership of "Weston & Rand," architects, is
this day dissolved by mutual consent, Mr. Rand retiring.

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

J. B. & J. M. CORNELL.

IRON WORK FOR BUILDINGS.

141 CENTRE ST., NEW YORK.

L. HABERSTROH,

FRESCO PAINTER,

No. 12 SCHOOL STREET, BOSTON.

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, BEAL ESTATE IMPROVERS, AND GENERAL AGENTS.

Particular attention given to Repairing and Leasing states and the Collection of Rents.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET,

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

MASS. INSTITUTE OF TECHNOLOGY. This school offers a four-years' scientific and professional training for Chemists, Mcallurgists, Civil, Mcchancal, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

The Course in Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Neocial students in Architecture are received into a two-years' special course.

For particulars address William R. Ware, Esq., Professor of Architecture, or Dr. Samuel England, Secretary, Boston, Feb. 1, 1876.

EDWARD HIXON & CO.

UPHOLSTERY GOODS,

TRIMMINGS, AND LOOKING GLASSES,

AND MANUFACTURERS OF CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

No. 180 Washington Street,

(NEW No. 364.)

BOSTON. Fred Reed

E. Hivon

E. Hixon, jun.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS,

or all kinds of House and other Painting, both outside and side work.

These colors will change less upon exposure, and prove nore durable, than pure White Lead Paints colored in the rdinary way.

WARRANTED MORE ECONOMICAL MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER BEFORE OFFERED.

WADSWORTH BROTHERS & HOWLAND,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Palin & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

ELECTRIC BELL, AND ANNUNCIATORS, SPEAKING TUBES,

AND BURGLAR ALARMS.

For Public and Private Buildings.

THE REST IN USE.

S. W. FULLER, 63 Devonshire Street, Box

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of

FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION

2 "A" BEACON STREET, NEAR TREMONT, BOSTON.

Shops in Albany Street.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTOK. METAL MERCHANTS,

BOOFING PLATES
AND IRON,
USED IN BUILDINGS.

Exclusive Boston Agents for the sale of The Union IRON MILLS. Solid WROUGHT IRON BRAMS, and THE "BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE, By J. K. Colling. 1 vo.,

MEDIÆVAL FOLIAGE. By J. K. Col-

AIA LING. I vol. quarto. It peace sistem is a sistem of the sistem of th

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

Designs for Cabinets, Drawing-Room, Dining-Room, Sit-ting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITEC-

TURE. From designs by Scott, Street, Colling, and others. I vol. quarte. 64 plates. \$15.00.
Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths.

NOTE-BOOK SKETCHES. Made during a tour in Europe. By ROBERT SWAIR PRABORT. 1 vol. a tour in E \$6.00.

Sketches of Castles, Towers, Spires, Porches, Pillars Gargovies, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. Varin. Reproduced by the Heliotype Process.
1 vol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-amentation of the Mineteenth Century. By LIENARD. Reproduced by the Heilotype Process. Upwards of 120 designs, rich in hims to Architects and Decorators. I vol. folio, boards, §27.60. Haff morocco, cloth sides, §20.60.

HOMES AND HOW TO MAKE THEM.

"Under the guise of familiar correspondence between as architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, taxteful and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he knows just what he wants, to read it before he decides upon his place." "New Fort Christism Adoccate.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by Groze M. Towne. I vol. 8vo beveled boards, red edges, \$5.00.

w The bans of the story is the building of a château en the true principles of architecture.

"With such varied characters for his mouthpleces, the author is able to lead fresh attractions to the study of his besatiful art, to point out the difficulties and prejudions and misunderstandings to which architects are exposed, to dissect the study of his besatiful art, to point out with a rchitects are exposed, to dissect the study of the study of the study of the study of his besatiful art, to point out the study of the stu

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,
JAMES R. OSGOOD & CO., BOSTOR.

ANNALS OF A FORTRESS. Translated by Benjamin Bucknall, Architect. 1 volume 8vo. Eighty-five flustrations, several in Colors. \$5.00.

"M. Violiet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and fascinating writer. His Story of a flouse 'displayed his taste in the first capacities. The first capacities have been supported by the second of the second

"One of the most charming, and at the same time practi-cal, books of modern times, devoted to military science."— Army and Navy Journal.

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.





Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

ms, 27 Sudbury, and 69 & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

THE PEERLESS FURNACE.

Brookline, Dec. 3, 1875.

MESSRS. PRATT & WENTWORTH, - I don't think it necessary to overpraise a good thing; but, when one enjoys great comfort, it is well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double windows, and no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, with permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations.

Truly yours,

A. A. HAYES.

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

THE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB.

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers,

131 Franklin Street, Boston.

New York Sketch-Book

Architecture.

THIRD YEAR. 1876.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, 131 Franklin Street, Boston.

The Art Furnishing Company,

170 Tremont Street, Boston,

DESIGNERS AND IMPORTERS OF

PLAIN, ENCAUSTIC, AND ART

TILES.

ALSO TILES

FOR FURNITURE, DECORATION.

AND BATHROOM LININGS.



Contractors for Tile Work in

DWELLINGS AND PUBLIC BUILDINGS.

A FINE ASSORTMENT OF

FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTI-BULE, AND BANK FLOORS.

for Manufacturers of Fine Furniture, and Importers of rare old Etchings and Engravings.

NO. 170 TREMONT STREET, BOSTON.

BURDITT & WILLIAMS,

MANUPACTURERS AND DEALERS IN

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Bross Hardware manufactured to order from rown patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON.

MANUFACTORY 19 WAREHAM STREET.

Interior Painters and Decorators

No. 136 Harrison Avenue, Boston.

O. H. PERRY,

METAL WORKER,

Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c.,

MADE TO ORDER,

Franklin, corner Centre Street, New York.

ENGRAVINGS FROM LANDSEER. Reproduced in Hellotype, with a Sketch of the Life and
Works of the Artist. Twenty-four Plates, reproducing with
the utmost fidelity some of the most famous of Landseer's
Works, Including "The Challenge," "Chillinghum Red
Deer," "The King of the Forest "La The Monarch of the
Clien," "High Life." "Low Life." Laving Down the Lew " the state of the challenge, the state of the crime state of the crime state of the forest, the Monarch of the crime state of the crime state of the state of the crime state of the crime state of the state of the crime stat

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper adverents, printed circulars, &c. Artisans of all descriptions, and especially those who manufacture or deal in Household Furniture, Ornamental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND BUILDING NEWS.

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS,

and furnish any required number of cuts by the Heliotype Relief Process,

JAMES R. ORGOOD & Co...

131 Franklin St., Boston,

WALLBURG & SHERRY,

Of Houses, Churches,

and Public Buildings.

THE BOOK OF AMERICAN INTERIORS.

BT CHARLES W. ELLIOTT.

Containing views of twenty-two striking in-teriors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and essays on the Library and Diu-ing-Room. Quarto. \$10.00.

HELIOTYPES OF of H. W. Longfellow, Esq., Cambridge,

Dining-Room of Dr. J. R. Chadwick, Boston. Library of Donald G. Mitchell, Esq., West Hav-

n, Conn. rry of Dr. Theo. F. Breck, Springfield, Mass. ng-Room of Dr. Breck. ng-Room of George Ward Nichols, Eaq.,

Cincinnati.
at Hall of Major Rathbone, San Francisco.
rary of George B. Chase, Esq., Bos.on,
ing-Room of Hon. J. V. L. Fruyn, Albany,

M. T. Commander of Hen. J. V. L. Pruyn.
hbrary of Win. C. Bryant, Esq. Rosyln, L.I.
udy, Harvard College:
ining Room of James Lee, jun., Esq., Boston.
rawing Room of Prof. F. Rogers, Newport,
R.I.

R.I.

R.I.

R.I.

Britan, of John A. Burnham, Jun., Esq., Boston.

Boston.

Dining-Room of George James, Esq., Nahant.

Hall of Charles S. Sargent, Esq., Brookline,

ning-Room of Charles A. Cummings, Esq., Boston., Dining-Room of George W. Wales, Esq., Boston. Hall of Francis Peabody, Esq., Danvers, Mass. Memorial Hall, Cambridge, Mass.

"This book is as unique as it is integives heliotype views of the interiors two rooms and halls, all but seven of in Massachusetts; and all of them e Harvard Memorial Hnll, are views fresidences. It is happily true that in volume will prove of ines value. It shows what me have done; and from the taken by all in search of tion."— Hartford Couran

*. For sale by all Booksellers. Sent, post-paid, on receipt of price by the Publishers. JAMES R. OSGOOD & CO., BOSTON

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

138 TREMONT STREET.

BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Correction and Parkegiano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

8.N. 8.HOTELPELHAM, TREMONT STREET CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies. Owners or Occupants. In case of Fire or Damage; Estimates given for all Trades in Building, &c.

RAPHAEL PICTURES. A Series of studies designed and engraved after dve paintings by studies, and saint Agatha, Saint Lucia, and Saint Apollonia.

Descons, and Saint George. Of Correggio's Freecos, it ades the Madonna della Scala, Diana in a Charlot, The mation of the Virgin, groups of Cherubs and Angels, and valuable collection. Quarto. Price, \$10.00.

JAMES R. 036000 & CO., Boston.

M. W. PEIRCE & CO.,

STEAM AND GAS FITTERS.

AND DEALERS IN

GAS FIXTURES.

12 SUDBURY, and 109 FRIEND STREET,



CATALOGUE OF Architectural Books

Mailed free to any address. All architectural and Scientific Bo pplied at publishers' prices,

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

AMERICAN ARCHITECT AND BUILDING NEWS.

WILLIAM P. P. LONGFELLOW,
OF THE AMERICAN INSTITUTE OF ARCHITECTS

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The AMERICAN ARCHITECT AND BUILDING News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but

as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable. The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers, JAMES R. OSGOOD & CO., 131 Franklin Street, Boston.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS. but to send subscriptions directly to the publishers by bank-draft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive sub scriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECOR ATIONS

Churches, Halls.

Private Residences.

ETC., ETC., ETC.



AND DESIGNS

MADE FOR

9 Fresco Painting and Decorations

IN ALL VARIETIES.

Boston Ornamental Iron Works

MANUPACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING.

IRON CASTINGS

IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY.

WEATHER VANES AND

BUILDERS' HARDWARE. Estimates given on all kinds Iron Work.

Send for Catalogue.

BIER & COMPANY, 118 MILK STREET, BOSTON.

The New England Cabinet Organ.

gues sent froe. NEW ENGLAND ORGAN CO. 1299 Washington St., Boston, I DISCOURSES ON ARCHITECTURE.
By VIOLLET-LE-DUG. Translated, with an Introduct Passay, by HENRY VAN BRINT, Fellow American Intute of Architecta. Fully illustrated. I vol. royal 8vo., 8

and those who ire preparing to do scope of this suggests of the subjects to compose this state at is Barbarism? of Art to Civilization of the compose the state of the civilization of the

JAMES R. OSGOOD & CO., BOSTO Franklin Press: Rand, Avery, & Co., Boston

Catalogue of Architectural

Mailed free to any address

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.





Vol. I. No. 8.]

BOSTON, SATURDAY, FEBRUARY 19, 1876.

PRICE 15 CENTS.

TO ARCHITECTS, ETC. PROPOSALS.

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address. Architects through the advertising columns of the "American Archi-TECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and unnouncements of interest to Architects, Builders, Decoratamounteements of interest to Architects, Bullets, Decora-ors, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

CITY OF BOSTON.

PROPOSAL FOR SEWER PIPE.

Proposals will be received at Sewer Department, Ci-Hall, till March 1, for the whole grany part of 20,000 feet twelve-inch Vitrified Sewer Pipe, including 1,000 six-inc

were then remember and the remaining and form of proposal.

Apply as above for specification and form of proposal.

The right reserved to decline all bids. Indorse bids, "Proposals for Sewer Pipe," and address to

UNION VILES. nd address to

CLINTON VILES,

Chairman Committee on Sewers.

PROVIDENCE COUNTY COURT HOUSE PROPOSALS FOR IRON WORK.

Sealed proposals for the Iron Work required in building the Providence County Court House will be received at the office of Stone & Carpenter, Architects, No. 65 Westimister Street, until 12 x. of the eighteenth day of February, 1876. Lithographed plans and printed specifications and forms for proposals may be obtained of the Architects.

The Commissioners reserve the right to reject any and all proposals.

AMASA S. WESTCOTT, EDWIN DARLING, THOMAS P. SHEPARD, Stone & Carpenter, Architects.

CENTENNIAL NUMBER

NORTH AMERICAN REVIEW

FOR JANUARY, 1876.

This number of the REVIEW is devoted to a careful and philosophical history of the country in certain cardinal interests during the century, 1776-1876, as follows:—

Art. I.—RELIGION IN AMERICA, 1776-1876.—J. L.

Diman.

Art. II. — POLITICS. — W. G. Sumner.

Art. III. — ABSTRACT SCIENCE. — Simon Newco
Art. IV. — ECONOMIC SCIENCE. — C. F. Dunbar.

Art. V. — LAW. — G. T. Bispham.

Art. VI. — EDUCATION. — D. C. Gilman.

\$1.50 a Number; \$6, Yearly Subscription.

"The editors of the ' North American 'are entitled to high "The editors of the 'North American 'are entitled to high commendation for stepping out of the bester track, and making this valuable contribution of original and suggestive papers to the literature of the Centennial. They will be eagerly sought by a wide circle of readers, and can scarcely be read without profit."—New York Tribune.

Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & CO., Boston

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Minning Engineers, Architects, Teachers of Science, and Manufacturers.

The Course is Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

rehitecture library, and the tournam processes of the same seed in a rehitecture are received into a two-cears' special course.

For particulars address WILLIAM R. WARE, Esq., Probasor of Architecture, or Dr. Samuel Kneeland, Secretary.

BOSTON, Feb. 1, 1876.

MINTON'S TILES.

PLAIN AND ENCAUSTIC.

FOR PUBLIC BUILDINGS AND DWELLINGS,

As laid by us in

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every part of the Country. Glazed and Enamelled Tiles for Mantels, Hearths, Wain-scoting, &c., and for Exterior Decoration.

MILLER & COATES. 279 PEABL STREET, NEW YORK.

ARCHITECTS.

OFFICE OF FRANK W. WESTON, ARCHIT

(Late Weston & RAND)
ARCHITECT,
17 Pemberton Square, Boston, Dec. 31, 1875.
The co-partnership of "Weston & Rand," architects, is this day dissolved by mutual consent, Mr. Rand retiring.

GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architecta, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect, office 19 Broad, corner Central Street, Boston.

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

I. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98

J. B. & J. M. CORNELL.

IRON WORK FOR BUILDINGS,

141 CENTRE ST., NEW YORK.

L. HABERSTROH,

FRESCO PAINTER,

No. 12 SCHOOL STREET, BOSTON.

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, REAL ESTATE IMPROVERS, AND MONS. C. J. SOYARD, formerly 12 West GENERAL AGENTS.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET,

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

ROOFING. An article indorsed by most experienced Architects and Builders, as combining leauty and durability with fire-proof qualities and cheapness to an extraordinary degree, is a valuable aid in building or repairing roofs, every community must half with satisfaction, particularly where piers, factories, rolling-mills, and general manufacturing etablishments are located. Its testimonials are most numerous, reliable; well worth the investigation of all real estate owners and farmers who have an old roof to mend and preserve, or a new one to lay; an article free from tar, ready for use, low price, and easily applied with positive satisfaction, either as an ornment of or effectually atopning every leak. Proving the most economical roofing known to modern invention or skill, and having so many stering poit at, thas achieved such a wide active demand throughout the United States; its patrons are thousands, and the production not only exceeds in magnitude that of all other similar roofings combined, but is unequalled in quality. Complete materials for a sees steep or flat roof costs but 4 1-2 cents a square foot, and the strict economy of making an old shingle roof fire and water proof unites beauty with utility. These goods are commercially known as Gline's Rubber Roofing and State Roofing Faint, and are manufactured by New York State Roofing Company, limited, 8 Cedar Street, N. Y.; 49 So. Front Street. Phila. Their prices are very low and estimates free. Samples and Dopage book mailed any one stating where they saw this notice. Write at once. ROOFING. An article indorsed by most experienced Architects and Builders, as combining

EDWARD HIXON & CO.

IMPORTERS OF

UPHOLSTERY GOODS,
TRIMMINGS, AND LOOKING GLASSES,
AND MANUFACTURERS OF CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship No. 180 Washington Street, (NEW No. 364.) BOSTON.

E. Hixon,

Fred. Reed,

E. Hixon, jun.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS.

or all kinds of House and other Painting, both outside and nside work.

These colors will change less upon exposure, and prove nore durable, than pure White Lead Paints colored in the rdinary way.

ordinary way.

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE. THAN ANY PAINTS EVER BEFORE OFFERED.

Manufactured by

WADSWORTH EROTHERS & HOWLAND,
Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Variables and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

PLECTRIC BELL, AND ANNUNCIATORS.

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.

S. W. FULLER, 63 Devoushire Street, Bosto

GENERAL AGENTS.

Particular attention given to Repairing and Leaning states and the Collection of Rents.

AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NEAR TREMONT,

BOSTON. Shops in Albany Street. BOSTON.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON. METAL MERCHANTS,

BOOFING PLATES
AND IRON,
USED IN BUILDINGS.
THE UNION Exclusive Boston Agents for the sale of The Union Inon Mills. Solid Wrought Inon Brams, and The Burden Brat' Inon, Teasile Strength 78,000 lbs.

W. J. McPHERSON & CO..

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE. By J. K. Colling. 1 vol.

MEDIÆVAL FOLIAGE. By J. K. Col-

5.60. These two volumes by Mr. Colling contain valuable intro-ctory essays on the use of Foliage in Art, with a great mber of designs illustrating the various modes in which lisge has been employed by Architects and Decorators different ages and nations. In their department these lumes are univalied.

GOTHIC FORMS. By B. J. TALBERT. 1 vol. follo. 31 plates. \$15.00.
Designs for Cablnets, Drawing-Room, Dining-Room, Sitting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scott, Street, Colling, and others. I vol. quarto. 64 plates. \$15.00.
Containing designs for Churches, Cathedrals, Colleges, Haila, Hallway Stations, Museums, Model Dwellings, Baths, &c.

NOTE-BOOK SKETCHES. Made during folio. \$6.00.

so.w. covies, Cressets, Fountains, Windows, Churches, and srous carious Historical Designs.

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantons. Drawn and engraved by A. and E. Varin. Reproduced by the Heliotype Process. I vol. quarto. Boards. \$12.00.

tive volume abounds in suggestions to Amerits for making country houses picturesque as

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-entation of the Nineteenth Century. By Likkardo. oduced by the Heliotype Process. Upwards of 120 ms, rich in hints to Architec.s and Decorators. 1 vol. boards, \$27.00. Haif morocco, clothesions, \$30.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDHER. Diustrated. 1 vol. square 12mo.

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful, and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he knows just what he wants, it read it before he decides upon his plant." "New Fort Christian Advocate.

THE STORY OF A HOUSE. BY VIOL-LEI-LE-DUC. Illustrated by the Author. Translated by GRORGE M. TOWLE. I vol. 8vo. beveled boards, red edges, \$5.00.

\$5.00.

"The basis of the story is the building of a château on the true principles of architecture.

"With such varied characters for his mouthpleces, the author is able to lend fresh attractions to the study of his beautiful art, to point out the difficulties and prejudices and misunderstandings to which architects are exposed, to discussion of the study of his beautiful art, to point out the difficulties and prejudices and misunderstandings to which architects are exposed, to discussion of egotism: and all this through the case, who supplies the property of the study of the case in the reader is as well entertained that he forgets he is being instructed. The unpretentious carnestness, simple wisdom, and sound practical information, which light up every page, together with the artistic fillustrations prepared by the same master hand, make this latest work of Monaleur Violiet-le-Duc the most attractive text-book of architecture that has ever come under our notice."—Americas Builder (New York).

. For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.

A NNAIS OF A FORTRESS. BY VIOL-Architect. I volume 8vo. Eighty-five filustrations, several in Colors. \$5.00.

in Colors. \$5.00.

"M. Viollet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and fascinating writer, His 'Story of a House' displayed his taste in the first capacity. His 'Annais of a Fortress' exhibits his genius in the second, while his skill in the third is strikingly illustrated in both of these exceptionally handsome volumes. In the last polanting, executing, and defending through seven successive sieges, of an imaginary fortification on the River Cousin, an affluent of the Saöne in France. Each chapter in its history is set forth with the greatest elaboration and strictestregard to the technics of the art of war, so that the effect is that of a vertiable narrative, or more properly, perhaps, of a scientific review."—Boston Congregationalist.

"One of the most charming, and at the same time practical, books of modern times, devoted to military science."—
Army and Navy Journal.

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.





Set Complete in Terry, \$76.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

ms. 27 Sudbury, and 69 & 71 Portland Streets, Boston.

FACTORY AT EAST CAMBRIDGE.

THE PEERLESS FURNACE.

Chapel Station.

MESSRS. PRATT & WENTWORTH. - I on't think it necessary to overpraise a go thing; but, when one enjoys great comfort, it is well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double windo no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations.

Truly yours,

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR. 1876. 1876.

TE ARCHITECTURAL SKETCH-BOOK will continue for 1876 under the editorship of

THE PORTFOLIO CLUB.

and will be published with regularity on the FIRST OF EACH MONTH. To secure greater uniformity of result, the drawings will be specially made for transfer to stone by the

HELIOTYPE PROCESS.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, 131 Franklin Street, Boston.

New York Sketch-Book

Architecture.

1876.

THIRD YEAR.

1876.

THE NEW YORK SKETCH-BOOK OF ARCHITECTURE will be continued for 1876, and will be published with regularity the FIRST OF EACH MONTH.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, postage paid.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, 131 Franklin Street, Boston.

The Art Furnishing Company,

170 Tremont Street, Boston,

DESIGNERS AND IMPORTERS OF

PLAIN, ENCAUSTIC, AND ART

TILES.

ALSO TILES

FOR FURNITURE, DECORATION.

AND BATHROOM LININGS. STRADE MARK TO



Contractors for Tile Work in

DWELLINGS AND

PUBLIC BUILDINGS.

A FINE ASSORTMENT OF

FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTI-BULE, AND BANK FLOORS.

Manufacturers of Fine Furniture, and Importers of rare old Etchings and Engravings.

NO. 170 TREMONT STREET, BOSTON.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from natterns, or from architects' drawings. r own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STEERT.

WALLBURG & SHERRY,

Interior Painters and Decorators

Of Houses, Churches,

and Public Buildings.

No. 136 Harrison Avenue, Boston.

O. H. PERRY.

METAL WORKER,

retcheons, Locks, Hinges, Andire Fenders, Knockers, &c.,

THE BOOK OF AMERICAN

INTERIORS. BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking in-teriors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and essays on the Library and Dis-ing-Room. Quarto. \$10.00.

HELIOTYPES OF of H. W. Longfellow, Esq., Cambridge,

ing-Room of Dr. J. R. Chadwick, Boston, rary of Donaid G. Mitchell, Esq., West Hav-

n, Conn. rry of Dr. Theo. F. Breck, Springfield, Mass. ng-Room of Dr. Breck. ng-Room of George Ward Nichola, Esq.,

inclination of George Water Needolf, Eng., Inclination and Inclination of the American Act of George B. Chase, E.g., Boston, ng-Room of Hon. J. V. L. Pruyn, Albamy,

N.Y.
ina-Room of Hon. J. V. L. Pruyn.
brary of Wm. C. Bryant, Esq. Rosyin, L.I.
udy, Harvard College.
ning Room of James Lee, Jun., Esq., Boston,
awing-Room of Prof. F. Rogers, Newport,

rary of John A Burnham, jun., Esq., Boston, ing Room of John A. Burnham, jun., Esq., Boston.

oston. ng-Boom of George James, Esq., Nahent, of Charles S. Sargent, Esq., Brookline,

ing-Room of Charles A. Cummings, Esq., Boston. Boston. Dining-Room of George W. Walez, Esq., Boston. Hall of Francis Peabody, Esq., Danvers, Mass. Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting gives heliotype views of the interiors of two two rooms and halis, all but seven of which Massachusetts; and all of them except Harvard Memorial Hall, are views from presidence. It is happily true that from we causes there is now spreading through the try a conviction of the improvements the Americans can make in our homes, and o

MADE TO ORDER. MADE Tranklin, corner Centre Street, NEW YORK.

ENGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famons of Landseer's Works, including "The Challenge," "Chillingham Red Glen," "High Life," "Low Life," Laying Downthe Law," "Shoeing the Bay Mare," and others of equal beauty, Quarto. Price, \$10.00.

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advernents, printed circulars, &c. Artisans of all descriptions, and especially those who manufacture ordeal in Household Furniture, Orna mental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of

NEWS.

can furnish their own designs, or have them

HELIOTYPE CARDS,

the Heliotype Relief Process.

JAMPA R. OSGOOD & Co...

※Nº8.HOTELPELHAM, TREMONT STREET

※ CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Constru tors, Architectural Plans, Detail Drawings and Specification Fire Insurance Adjusters between Insurance Companie Owners or Occupants, in case of Fire or Damage; Estimat given for all Trades in Building, &c.

RAPHAEL PICTURES.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Kotes by M. T. B. EMBRIG-DAVID, member of the Institute of France.
This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madomas of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON

W. PEIRCE & CO.,

Dir

STEAM AND GAS FITTERS,

see there is now a conviction of the improve ericans can make in our hon crease of comfort attainable too much neglected æsthetic see, and blending beauty will appear on interested in this une will prove of inestimable. It shows what men of co done; and from these maien by all in search of guidas in."— Hartford Courant.

*, For sale by all Booksellers. Rent, post paid, on receipt of price by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.

AND DEALERS IN

GAS FIXTURES.

12 SUDBURY, and 100 FRIEND STREET, BOSTON.

CATALOGUE OF Architectural Books Mailed free to any address.

Il architectural and Scientific Be plied at publishers' prices,

A. J. BICKNELL & CO., UNITECTURAL BOOK PUBLISHERS 27 WARREN STREET, NEW YORK.

peculiar and unique patterns inserted in the AMERICAN ARCHITECT AND BUILDING

executed by the publishers, who will also print

d furnish any required number of cuts by

131 Franklin St., Boston.

A RTISTIC FURNITURE, &c., &c., made THE HOUSEHOLD ART COMPANY.

158 TREMONT STREET,

BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Comercia and Paramatamo. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

"Harvard University.

s volume contains twenty-four Plates, including Parano's Saint Agaths, Saint Lucia, and Saint Apollonia,
Deacons, and Saint George. Of Correggio's Freecos, it
des the Madonna della Scala, Diana in a Charlot, The
nation of the Virgin, groups of Cheruba and Angels.

AMERICAN ARCHITECT AND BUILDING NEWS.

WILLIAM P. P. LONGFELLOW,

MESSES. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architect and Building News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates

executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable. The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers, JAMES R. OSGOOD & CO., 131 FRANKLIN STREET, BOSTON.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECOR ATIONS

Churches, Halls,

Private Residences.

ETC., ETC., ETC



AND DESIGNS

MADE FOR

Fresco Painting and Decorations

IN ALL VARIETIES

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE BAILING,

IRON STABLE FIXTURES,

IRON CASTINGS.

FOUNTAINS.

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS' HARDWARE. Estimates given on all kinds of

Send for Catalogue

BUBIER & COMPANY,

118 MILK STREET, BOSTON.

The New England Cabinet Organ.

es sent free NEW ENGLAND ORGAN CO. DISCOURSES ON ARCHITECTURE By VIOLLET LE-DUC. Translated, with an Interference to the American tute of Architects. Fully illustrated. I vol. royal 8vo.,

We have no hesitation in saying delib-alification, that no work of any thing

We have no healisation in saying deliberately, and without lifecation, that no work of any thing like equal value to prican architects has ever been published in this country, one from the study of which they and all lovers of art derive so many, so durable, and so important lessons he elevation and perfection of their art. Those who are engaged in the study of architecture as teurs, and those who are practising it as a profession, or are preparing to do so, will gather an intelligent idea he scope of this suggestive and instructive work from a pask of the subjects treated upon in the ten discourses checompose this stately volume. They are as follows: What is lately what is Art? What are the Recome of Art to Civilization? What are the Social Consumerated the consumerated which are the scale of the consumeration of the second of the supposition. The Architecture of the sums, 3. The Methods to be followed in the Study of hilecture. The Methods of the Romans. The Parentee the Architecture. The Architecture of the Establishment of Christianity. The Principle of stern Architecture. The Architecture of the West since Establishment of Christianity. The Principle of stern Architecture. The Architecture of the West since Establishment of Christianity. The Principle of stern Architecture. The Architecture of the West since Decline of Architecture. Some of the Principles of intectural Composition. The Remainsance in the West, especially in France. 9. The Principles and informancessary to Architecta. 10. The Architecture of the extent Composition. The Remainsance in the West, especially in France. 9. The Principles and informancessary to Architecta. 10. The Architecture of the century. Method. We may add that the work lustrated by plates, many of which are from rare cets, and all from the most perfect specimens known in history of the art, and among which are from rare for Vezelay; Sections, The Churchon, The Establishmen of Christianity. The Cathedral of Neterborough. The Cathedral of Section of the Palace of the Mineteenth Century: Method is illustrated by plates, massubjects, and all from the most the history of the art, and am The Ledian Sarcophagus, Tl Antoninus and Caracalla, The Gaines, The Cathedral of Yeslavi, Sections, The Saintes, The Cathedral of Peris, The Château of Boule Tuileries." — Christian Intellig.

, For sale by Booksellers. Sent postpaid, on receipt rice, by the Publishers, JAMES R. OSGOOD & CO., BOSTO

Franklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural Rooks

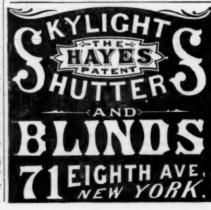
Mailed free to any address.

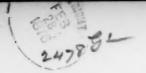
All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS.

27 WARREN STREET, NEW YORK.







Vol. I. No. 9.7

BOSTON, SATURDAY, FEBRUARY 26, 1876.

TO ARCHITECTS, Etc. PROPOSALS.

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address Architects through the savertising columns of the "American Architect and Building News."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorat-

ors, etc., if advertised in this paper, reach a large number persons engaged in these branches of business through

CITY OF BOSTON.

PROPOSAL FOR SEWER PIPE.

Proposals will be received at Sewer Department, Cl Hall, till March I, for the whole orany part of 20,000 feet twelve-inch Vitrified Sewer Pipe, including 1,000 six-in

Apply as above for specification and form of proposal.
Apply as above for specification and form of proposal.
The right reserved to decline all bids. Indores bids, "Proosals for Sewer Pipe," and address to
CLINTON VILES.
Chairman Committee on Sewers.

CENTENNIAL NUMBER

NORTH AMERICAN REVIEW

FOR JANUARY, 1876.

This number of the REVIEW is devoted to a careful and philosophical history of the country in certain cardinal interests during the century, 1776-1876, as follows:—

Art. I. - RELIGION IN AMERICA, 1776-1876.—J. L.

Diman.

Art. II. — POLITICS. — W. G. Sumner.

Art. III. — ABSTRACT SCIENCE. — Simon Newcomb.

Art. IV. — ECONOMIC SCIENCE. — C. F. Dunbar.

Art. V. — LAW. — G. T. Bispham.

Art. VI. — EDUCATION. — D. C. Gilman.

\$1.50 a Number; \$6, Yearly Subscription

"The editors of the 'North American 'are entitled to high commendation for stepping out of the beaten track, and making this valuable contribution of original and suggestive papers to the literature of the Centennial. They will be eagerly sought by a wide circle of readers, and can scarce be read without profit." - New Fork Tribune.

Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & CO., Boston.

MASS. INSTITUTE OF TECHNOLOGY, sional training for Chemists, Metallurgists, Civil, Mechani-cal, and Mining Engineers, Architects, Teachers of Science, and Manufacturers. sional training for Chemists, Netanungusts, Carta, deceace, and Manufacturers.

The Course is Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary.

Boston, Feb. 1, 1876.

WILLIAM S. BRAZER,

DECORATOR AND DESIGNER,

No. 9 Hamilton Place, Opp. Park-Street Church,

GEO. F. BLAKE MFG. CO.,
MANUFACTURERS BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

W. H. WARREN,

BUILDER AND CONTRACTOR,

LDEE AND HARRISON AVENUE, BOSTON.

BUILDING SUPPLIES, ETC.

J. B. & J. M. CORNELL.

IRON WORK FOR BUILDINGS,

141 CENTRE ST., NEW YORK.

FLINT NT BROTHERS, Window Shades, ornices, Italian Awnings, Enamelled Oil Cloths, Wires, etc. No. 106 Tremont Street, Boston.

GALVANIZED IRON CORNICES, Hayes's ney Jacks, Window Caps, Dormer Windows, &c SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

RON WORK FOR PUBLIC BUILDINGS
Houses, Bridges, Stores, &c. J. T. CROFT & CO., 97 & 99 Beverly Street, Boston.

MEAD, MASON, & CO., Builders, Hard and Soft Wood Doors, Sasbes, and Blinds, No. 8

WEATHER VANES, LIGHTNING Rods, Cresdings, Finials, &c. HARRIS & CO., 11 Kingston Street, Boston.

HENRY C. HUNT & CO., Manufacturers of Belting for Elevators, Hose of Linen, Leather, or Rubber, No. 45 Arch Street, Boston.

JOHN'S PATENT ASBESTOS ROOFING.
DOWNIE, TRAINER, & CO., 167 Devembire Street

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 10

PURE WHITE LEAD, LINSEED OIL Colors, Varnishes, and Painters' Supplies. CARPEN. TER, WOODWARD & MORTON, 99 Milk, cor. Federa Street, Boston.

J. C. STOREY & CO., 10 State St., Boston
ROOFING MATERIALS, Coal Tar and its Products, Dry
and Tarred Sheathing Papers.

ARCHITECTS.

OFFICE OF FRANK W. WESTON,
(Late Weston & Rand)
ARCHITECT,
17 Pemberton Square, Boston, Dec. 31, 1875.
The co-partnership of "Weston & Raud," architects, is
this day dissolved by mutual consent, Mr. Rand retiring.

GRIDLEY J. F. BRYANT AND LOUIS P. ROGERS, Architects, 17 Pemberton Sa., Roston

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93 Water Street, Boston.

L. HABERSTROH,

FRESCO PAINTER,

No. 12 Вспоов Этипи, Волгон.

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS.

Particular attention given to Repairing and Leasing Estates and the Collection of Rents.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET, BOSTON.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

EDWARD HIXON & CO.

IMPORTERS OF

UPHOLSTERY GOODS,
TRIMMINGS, AND LOOKING GLASSES,
AND MANUFACTURERS OF CABINET FURNITURE, Of the latest Styles and Most Thorough Workmansh

No. 180 Washington Street, BOSTON. (NEW No. 364.) E. Hixon, Fred. Reed,

E. Hixon, jun.

TO ARCHITECTS AND BUILDERS.

BAY STATE COLORS,

ds of House and other Painting, both outside and side work.

These colors will change less upon exposure, and prove tore durable, than pure White Lead Paints colored in the

WARRANTED MORE ECONOMICAL, MORE DURABLE AND RELIABLE, THAN ANY PAINTS EVER BEFORE OFFERED.

Manufactured by WADSWORTH BROTHERS & HOWLAND, Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN USE.

8. W. FULLER. G Devonshire Street, Bos

MONS. C. J. SOYARD, formerly 12 West FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

2 "A" BEACON STREET, HEAR TREMONT,

hops in Albany Street. BOSTON.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS,

ROOFING PLATES
AND IRON
USED IN BUILDINGS. Exclusive Boston Agents for the sale of The Union Inon Mills' Solid Wrought Inon Brams, and The "Burden Best" Iron, Tensile Strength 78,000 lbs.

W. J. McPHERSON & CO..

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS,

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO., BOSTON

ART FOLIAGE, By J. K. Colling. 1 vol.

MEDIEVAL FOLIAGE. By J. K. Col-

here two volumes by Mr. Colling contain valuable intro-ctory essays on the use of Foliage in Art, with a great mber of designs illustrating the various modes in which linge has been employed by Architects and Decorators different ages and nations. In their department these lumes are univalled.

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

Designs for Cabinets, Drawing-Room, Dining-Room, Sit-ting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by Scott, Street, Cothers. I vol. quarto. 64 plates. \$15.00.

ontaining designs for Churches, Cathedrals, Colleges ls, Railway Stations, Museums, Model Dwellings, Baths

NOTE-BOOK SKETCHES. Made during a tour in Europe. By ROBERT SWAIN PRABODY. 1 vol. 6010. \$6.00.

Sketches of Castles, Towers, Spires, Porches, Pillars, Gargoyles, Cressets, Fountains, Windows, Churches, and numerous curious Historical Designs.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN. Reproduced by the Heliotype Process.
1 vol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nineteenth Century. By Liebard. Reproduced by the Heliotype Process. Dywards of 120 designs, rich in himta to Architects and Decorators. I vol. folio, boards, §27.00. Half morocco, cloth sides, §30.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Rilustrated. 1 vol. square 12mo

"Under the guise of familiar correspondence between an architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful, and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he knows just what he wants, to read it before he decides upon his plans."—New York Christian Advocate.

THE STORY OF A HOUSE, BY VIOL-LET-LE-DUC. Hiustrated by the Author. Translated by GEORGE M. TOWLE. 1 vol. 8vo. beveled boards, red edges, \$3.00.

"The basis of the story is the building of a châtean on the true principles of architecture." With such varied characters for his mouthpieces, the author with the principle of the property of the beautiful to the contribution of the study of his beautiful to the contribution of the study of his beautiful to the contribution and projection of the study of his beautiful to the contribution of the study of his beautiful to the contribution of the study of his beautiful to the contribution of the study of his contribution of the contribution of

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. O84400D & CO., BOSTON.

ANNALS OF A FORTRESS. BY VIOLATELE-DUC. Translated by BENJAHIN BUCKNALL, Architect. 1 volume 8vo. Eighty-five Illustrations, several in Colors. \$5.00.

in Colors. \$5.00.

"M. Viollet-le-Duc is an accomplished architect, an able military engineer, and an ingenious and fuscinating writer. His 'Story of a House' displayed his taste in the first capacity. His 'Annais of a Fortress' exhibits his genius in the second, while his skill in the third is strikingly illustrated in both of these exceptionally handsome volumes. In the last named this gifted and brilliant author describes the locating, planning, erecting, and defending through seven successive steges, of an imaginary fortification on the River Cousin, an affluent of the Saöne it France. Each chapter in its history is set forth with the greatest elaboration and strictest regard to the technics of the art of war, so that the effect is that of a veritable narrative, or more properly, perhaps, of a scientific review." — Poston Congregationalist.

"One of the most charming, and at the same time practical, books of modern times, devoted to military science."—
Army and Navy Journal.

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES E. OSGOOD & CO., Boston.





Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

ns. 27 Sudbury, and 69 & 71 Portland Streets, Bost

FACTORY AT EAST CAMBRIDGE.

THE PEERLESS FURNACE.

Chapel Station. Brookline, Dec. 3, 1875.

MESSRS. PRATT & WENTWORTH, - 1 don't think it necessary to overpraise a good thing; but, when one enjoys great comfort, it is well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations.

Truly yours,

A. A. HAYES.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, ROSEWOOD, etc., WHITE HOLLY, MAHOGANY, THUYA,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes spitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR. 1876.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

THIRD YEAR. 1876

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

The Art Furnishing Company,

170 Tremont Street, Boston,

DESIGNERS AND IMPORTERS OF

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION.

AND BATHROOM LININGS. STRADE MARK Q



Contractors for Tile Work in DWELLINGS AND PUBLIC BUILDINGS.

A FINE ASSORTMENT OF

FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

EF Manufacturers of Fine Furniture, and Importers of rare old Etchings and Engravings.

NO. 170 TREMONT STREET, BOSTON.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDER'S HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.

WALLBURG & SHERRY,

Interior Painters and Decorators

Of Houses, Churches,

and Public Buildings.

No. 136 Harrison Avenue, Boston,

O. H. PERRY,

METAL WORKER, Escutcheons, Locks, Hinges, Andire Fenders, Knockers, &c.,

MADE TO ORDER,

Franklin, corner Centre Street, New York.

ENGRAVINGS FROM LANDSEER. Re-L'NGRAVINGS FROM LANDSEER. Redy produced in Heliotype, with a Sketch of the Life and
Vorks of the Artist. "Twenty-four Plates, reproducing with
the utmost fidelity some of the most famous of Landseer's
Vorks, including "The Challenge," "Chillingham Red
ver," "The King of the Forest," "The Monarch of the
len," "High Life," "Low Life," "Lysing Downthe Law,"
Shoeing the Bay Mare," and others of equal beauty,
quarto. Frice, \$10.00.

JAMES R. OSGOOD & CO., BOSTON.

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advertisements, printed circulars, &c. Artisans of all descriptions, and especially those who manufacture or deal in Household Furniture, Orna mental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND BUILDING NEWS,

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS.

and furnish any required number of cuts by the Heliotype Relief Process.

> JAMES R. OSGOOD & Co.. 131 Franklin St., Boston.

CHARLES WOODBERRY & SON,

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, betail Drawings and Specifications: Fire Insurance Adjusters between Insurance Companies, Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

RAPHAEL PICTURES.

PAPHAEL PICTURES. A Series of Usualized selsimed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. Engile Daylin, member of the Institute of France.

This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

**James R. Osgood & Co., Boston

THE BOOK OF AMERICAN INTERIORS.

BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking in-teriors now existing in this country, and about thirty smaller illustrations. With descriptive letter-press and essays on the Library and Diu-ing-Room. Quarto. \$10.00.

HELIOTYPES OF

Library of H. W. Longfellow, Esq., Cambridge,

Mass.
Dining-Room of Dr. J. R. Chadwick, Boston,
Library of Donald G. Mitchell, Esq., West Haven, Com.
Library of Dr. Theo, F. Breck, Springfield, Mass.
Dining-Room of Dr. Breck,
Dining-Room of George Ward Nichols, Esq.,
Clining-Room of George Ward Nichols, Esq.,

ing-Room of Consequence of George B. Chase, Esq. Boston, rary of George B. Chase, Esq. Boston, ling-Room of Hon. J. V. L. Pruyn, Albany,

N.Y. ina-Room of Hon. J. V. L. Pruyn. brary of Win. C. Bryant, Esq. Rosyln, L.I. dy, Harvard College. ultig Room of James Lee, jun., Esq., Bostor

ndy, Harvard College, alog Room of James Lee, jun., Esq., Boston, awing Room of Prof. F. Rogers, Newport, R.I. R.I. trary of John A Burnham, jun., Esq., Boston, ting Room of John A. Burnham, jun., Esq., Boston.

Boston.
Dining-Room of George James, Esq., Nahant.
Hall of Charles S. Sargent, Esq., Brookline,
Mass.

ass. g-Room of Charles A. Cummings, Esq., Boston.

Boston.

George W. Wales, Esq., Boston.

Hall of Francis Peabody, Esq., Danvers, Mass.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives heliotype views of the interiors of twenty-two rooms and halls, all but seven of which are in Massachusetts: and all of them except one, Harvard Memorial Hall, are views from private residences. It is happay true that from various causes there is now spreading through the country a conviction of the improvements that we Americans can make in our homes, and of the increase of comfort attainable by cultivating the too much neglected asthetic side of our natures, and blending beauty with utility. To try a conviction of the im Americans can make in o increase of comfort attain the too much neglected as tures, and blending beau every person interested in volume will prove of inest value. It shows what me have done; and from the ataken by all in search of tion." — Hartford Couras.

JAMES R. OSGOOD & CO., BOSTON.

M. W. PEIRCE & CO.,

STEAM AND GAS FITTERS,

AND DRALERS IN

GAS FIXTURES.

12 SUDBURY, and 109 FRIEND STREET, BOSTON.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific B

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS,
27 WARREN STREET, NEW YORK.

78Nº8.HOTELPELHAM, TREMONT STREETS ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET.

BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Conreggio and Parmediano. Reproduced by the Heliotype Process from the "Gray Collection of Engrav-Harvard University.

ings," Harrard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia.

Two Deacons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Chariot, The Coronation of the Virgin, groups of Cherubs and Angels.

A rare and valuable collection. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON.

AMERICAN ARCHITECT AND BUILDING NEWS.

WILLIAM P. P. LONGFELLOW,

Messrs. James R. Osgood & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architect and Building News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but

as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustra-tion, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archaeology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art. so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable. The journal will contain as complete and trustworthy a record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING News has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:-

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid

Address all communications to the publishers,
JAMES R. OSGOOD & CO.,
131 Franklin Street, Boston.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive sub scriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

Churches, Halls,

Private Residences,

ETC., ETC., ETC.



AND DESIGNS

MADE FOR

Fresco Painting and Decorations

IN ALL VARIETIES

WROUGHT AND CAST IRON For Building

IRON AND WIRE RAILING, IRON CASTINGS IRON STABLE FIXTURES,

FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES, AND

BUILDERS' HARDWARE. Estimates given on all kinds of on Work.

Send for Catalogue. IER & COMPANY, 118 MILE STREET, BOSTON.

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.,

Boston Ornamental Iron Works

DISCOURSES ON ARCHITECTURE.
By Violet-Le-duc. Translated, with an Introducty Essay, by Herry Van Berly, Fellow American Interest for the Confedence of the Confede

"4. For sale by Booksellers. Sens possyrice, by the Publishers.

JAMES R. OSGOOD & CO., Bosto

Rectag.

Franklin Press: Rand, Avery, & Co., Boston.

Architectural Latalogue of

Mailed free to any address.

etural and Scientific Books supplied at pub

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS.



Vol. I. No. 10.7

BOSTON, SATURDAY, MARCH 4, 1876.

[PRICE 15 CENTS.

PROPOSALS.

TO ARCHITECTS, ETC. PROPOSALS.

Any person or corporation wishing to invite competitive

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and amnouncements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

CENTENNIAL NUMBER

NORTH AMERICAN REVIEW

FOR JANUARY, 1878.

This number of the REVIEW is devoted to a careful and hilosophical history of the country in certain cardinal intersts during the century, 1776-1876, as follows:—

Art. I.—RELIGION IN AMERICA, 1776-1876.—J. L.

Diman.

Art. II. — POLITICS. — W. G. Sumner.

Art. III. — ABSTEACT SCIENCE. — Simon Newcomb.

Art. IV. — ECONOMIC SCIENCE. — C. F. Dunbar.

Art. V. — LAW. — G. T. Bispham.

Art. VI. — EDUCATION. — D. C. Gilman.

\$1.50 a Number; \$6, Yearly Subscription.

"The editors of the 'North American 'are entitled to high "The editors of the 'North American 'are entitled to high commendation for stepping out of the beaten track, and making this valuable contribution of original and suggestive papers to the literature of the Contennial. They will be eagerly sought by a wide circle of readers, and can scarcely be read without profit." — New York Tribune.

Sold by Booksellers and Newsdealers. Sent, post-paid, on eccipt of price by the pub

JAMES R. OSGOOD & CO., Boston.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Motaliurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Mining Louise.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Sincelal students is Ambiliant to Ambiliant training and the study of architectural history, and the constant practice of original Receipt students in Ambiliant Science and Scien

design.
Special students in Architecture are received into a two-years' special course.
For particulars address William R. Ware, Esq., Pro-fessor of Architecture, or Dr. Samuel Kkerland, Secretary.
Boston, Feb. 1, 1876.

WILLIAM S. BRAZER,

DECORATOR AND DESIGNER,

No. 9 Hamilton Place, Opp. Park-Street Church, Boston.

H. WARREN,

BUILDER AND CONTRACTOR,

Nos. 438 & 490 HARRISON AVENUE, BOSTON

CAPE ANN GRANITE COMPANY

GRANITE, BUILDING, AND MONUMENTAL WORK.

-Also-GRANITE FLAGGING & PAVING BLOCKS, SIMMONS BUILDING, 40 WATER ST., BOSTON.

Quarries: Bay View, Gloucester, Mass.

Jonas H. French, Pres. H. H. Bennett, Tress.

Scott Webber, Sup.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Ave., | 427 Walnut Street, | Boston. | New York. | Philadelphia.

FLINT BROTHERS, Window Shades, Cornices, Italian Awnings, Enamelled Oil Cloths, Wire Screens, etc. No. 106 Tremont Street, Boston.

GALVANIZED IRON CORNICES, Hayes's ney Jacks, Window Caps, Dormer Windows, &c. SMITH & VAN NOORDEN, 337 Harrison Avenue, Boston.

IRON WORK FOR PUBLIC BUILDINGS. Houses, Bridges, Stores, &c. J. T. CROFT & CO., 97 & Houses, Bridges, Beverly Street, Bo

MEAD, MASON, & CO., Builders, 10 Ca-church Building a specialty.

WEATHER VANES, LIGHTNING Rods, Crestings, Finials, &c. HARRIS & CO., 11 Kingston Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Bubber. HENRY C. HUNT & Linen, Leather, and Rubber, 45 Arch Street, Boston.

H. HALL, Stair Builder, and Manufac turer of Stationary Wash Stands. 37 Haverhill St., Bos Posts, Rails, Balusters & Office Rails, furnished to order

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

PURE WHITE LEAD, LINSEED OIL Colors, Varnishes, and Paintera' Supplies. CARPEN TER, WOODWARD & MORTON, 99 Milk, cor. Federa Street, Boston.

C. STOREY & CO., 10 State St., Boston.

ROOFING MATERIALS, Coal Tar and its Products, Dry at Tarred Sheathing Papers.

ELECTRIC BELL, AND ANNUNCIATORS

SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings.

8. W. FULLER,
3 Devonshire Street, Bos

FULLER, DANA, & FITZ, 110 NORTH STREET, BOSTON

METAL MERCHANTS,

ROOFING PLATES
AND IRON,
USED IN BUILDINGS.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEED STREETS, BOSTON.

W. PEIRCE & CO.,

STEAM AND GAS PITTERS,

AND DRALERS IN

GAS FIXTURES.

12 Sudguar, and 100 FRIEND STREET, BOSTON.

ARCHITECTS.

OFFICE OF FRANK W. WESTON.

(Late Weston & RAND) ARCHITECT,
17 Pemberton Square, Boston, Dec. 31, 1875.
The co-partnership of "Weston & Rand," architects, is
this day dissolved by mutual consent, Mr. Rand retiring.

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98 Water Street, Boston.

WALLBURG & SHERRY.

INTERIOR PAINTERS AND DECORATORS OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH,

FRESCO PAINTER.

No. 12 SCHOOL STREET, BOSTON.

P. TOLMAN & E. A. HUNTING, BUILDERS, BEAL ESTATE IMPROVERS, AND GENERAL AGENTS.

Particular attention given to Repairing and Leasing states and the Collection of Rents.

MORTGAGES NEGOTIATED.

NO. 11 BROMFIELD STREET,

BOSTON.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of

IVI Street, designer and maker of
FURNITURE, WOOD MANTELS,
AND ALL FIRST-CLASS CABINET WORKS OF EVERY
DESCRIPTION.

2 "A" BRACON STREET, NEAR TREMONT,

Shops in Albany Street. BOSTON.

MABEL MARTIN. A Harvest Idyl. John G. WHITTIER. Popular Edition. 21 Ill trations. 16mmo. \$1.50.

A very tasteful and desirable edition of the most popula Holiday poem of Christmas just past. It includes several of the most attractive pictures by Miss Hallooms and Mis Moaan, which caused the Holiday Edition to be pronounced the first of the finest editions of the most office book ever produced in America.

, For sale by all booksellers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & CO., BOSTON

EDWARD HIXON & CO..

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workma

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon

E. Hixon, jun

Builders and Architects.

ATTENTION!

THE STOVER PATENT

BLIND HINGE FAST

Is the Best in Use!

J. W. Bailey & Co.,

22 Kneeland St., Boston.

BUILDERS' HARDWARE

CONSTANTLY ON HAND.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

440 TREMONT STREET, BOSTON, MASS.

ARCHITECTURAL PUBLICATIONS.

JAMES R. OSGOOD & CO.,

ART FOLIAGE, By J. K. Colling, 1 vol.

MEDIÆVAL FOLIAGE. By J. K. Col-

These two volumes by Mr. Colling contain valuable introductory essays on the use of Foliace in Art, with a great manner of designs illustrating the various modes in which in different ages and nations. In their department these volumes are unrivalled.

GOTHIC FORMS. By B. J. TALBERT. 1 vol. folio. 31 plates. \$15.00.

Designs for Cabinets, Drawing-Room, Dining-Room, Sit-ting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
How and E. Varis. Reproduced by the Heliotype Process
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nineteenth Century. By LIENARD. Reproduced by the Heliotype Process. Upwards of E20 designs, rich in hims to Architects and Decorators. I vol. folio, boards, \$27.00. Haf morocco, cloth sides, \$50.00.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. 1 vol. square 12mo.

"Under the guise of familiar correspondence between at architect and his friends are discussed the thousand questions theoretical and practical, which arise in relation to the building of a convenient, comfortable, healthful, tasteful and inexpensive home, with the modern improvements, of course. We counsel any friend of ours, even though he is sure he know just what he wants, to read it before he decides upon his pla. 2."—New Fork Christian Advecate.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author, Translated by Greege M. Towle. 1 vol. 8vo. beveled boards, red edges, \$5.00.

\$5.00.

"The basis of the story is the building of a château on the true principles of architecture.

"With such varied characters for his mouthpleces, the author is able to lend fresh attractions to the study of his beautiful art or one to other the characters and prejudices and beautiful art or one of the characters and prejudices and the case his part of his

. For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.

E. & G. G. HOOK & HASTINGS,

STAINED GLASS WORKS, Church Organ Builders,

1131 TREMONT ST., Boston.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

or at a most of require and other l'ainting, both outside & and side work. Will change less upon exposure, and prave sore damble, than pure White Lead Paints colored in the rdinary way.

Warranted more Economical,

More Durable and Reliable, Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET.

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles alm & Co.'s Transfer Ornaments, California Pumice Stone, leno's French Umber, and Atlantic Lead.

THE PEERLESS FURNACE.

Brookline, Dec. 3, 1875.

MESSRS. PRATT & WENTWORTH, - I don't think it necessary to overpraise a go thing; but, when one enjoys great comfort, it is well to be grateful.

Our neighbors with new furnaces have been restricted to one room with furnace and grate fires, in some cases; one register being used to concentrate heat, and half frozen in all other

We have been without double windows, and no storm strips, all our rooms, closets, drawers, warm; and the lowest temperature, during wind in early morning, 50 deg. F. near the window, 2 deg. outside!

All this time of trial we have held in reserve the heating power of your furnace, without permitting full draught, except while kindling rapidly a few minutes; and the satisfaction the possession of this reserved power affords is worth as much as an ordinary furnace costs.

The tempest of wind here for eighteen hours was fearful; and combined with the low temperature, and no precautions to protect from cold, rendered the experience a most valuable test of the excellence of your furnace and adaptations.

Truly yours,

A. A. HAYES.

ESTABLISHED 1888

Palmer, Parker, & Co.

FOREIGN AND DOMESTIC FANCY WOOD

VENEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT. BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, WHITE HOLLY. MAHOGANY. THUYA. ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

1876 THIRD YEAR. 1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

The Art Furnishing Company,

170 TREMONT STREET, BOSTON.

Designers and Importers of PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION, AND BATHROOM LININGS, STRADE MARK Q



Contractors for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS

A Fine Assortment of

FIRE-PLACE LININGS, HEARTHS, AND HALL, VES
TIBULE, AND BANK

FLOORS.

Manufacturers of Fine Furniture, and Importers of rare old

No. 170 TREMONT ST., BOSTON.

BURDITT & WILLIAMS,

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.

WALLBURG & SHERRY,

Interior Painters and Decorators

Of Houses, Churches,

and Public Buildings.

No. 136 Harrison Avenue, Boston.

O. H. PERRY,

METAL WORKER.

Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c.,

MADE TO ORDER, Franklin, corner Centre Street, New YORK.

ENGRAVINGS FROM LANDSEER. Reproduced in Reliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works. Including "The Challenge," "Chillingham Red Gien," "High Life," Laying Down the Law," "Shocing the Bay Mare," and others of equal beauty. "Quarto. I rice, 810,00.

JAMES R. OSGOOD & CO., Boston.

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advernts, printed circulars, &c. Artisans of all descriptions, and especially those who manufacture ordeal in Household Furniture, Ornamental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND BUILDING NEWS.

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS.

and furnish any required number of cuts by the Heliotype Relief Process

> JAMES R. OSGOOD & Co., 131 Franklin St., Boston.

188. HOTEL PELHAM, TREMONT STREET \$

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY.

158 TREMONT STREET,

TOSCHI'S ENGRAVINGS. From Frescos by Corrosado and Parmediano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Corrogglo's Freescos, it includes the Madonna delia Scala, Diana in a Charlot, The Coronation of the Virgin, groups of Cherabs and Angels. A rare and valuable collection. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON.

CHARLES WOODBERRY & SON

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, betail Drawings and Specifications Fire Insurance Adjusters between Insurance Comparies Owners or Occupants, in case of Fire or Damage; Estimato-given for all Trades in Building, &c.

RAPHAEL PICTURES. A Series of Respective states of Respective series and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France.

This volume contains twenty-four Plates, reproduced in fac-sinsile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., Boston

THE BOOK OF AMERICAN INTERIORS.

BY CHARLES W. ELLIOTT.

Containing views of twenty-two striking in-teriors now existing in this country, and about hirty smuller illustrations. With descriptive etter-press and essays on the Library and Diu-ng-Room. Quarto. \$10.00.

HELIOTYPES OF of H. W. Longfellow, Esq., Cambridge, Dining-Room of Dr. J. R. Chadwick, Boston. Library of Donald G. Mitchell, Esq., West Hav-

en, Coun, zary of Dr. Theo, F. Breck, Springfield, Maas, Jaray of Dr. Theo, F. Breck, Springfield, Maas, Ing-Room of George Ward Nichola, Esq. Cincinnati.

cas Hall of Major Rathbone, San Francisco, carry of George B. Chase, Esq., Boston, ling-Room of Hon. J. V. L. Pruyn, Albany,

N.C. China-Room of Hon. J. V. L. Pruya. Library of Win. C. Bryant, Esq. Rosyln, L. Study, Harvard College. Dining Room of James Lee, Jun., Esq., Boston. Drawing Room of Prof. F. Rogers, Newport, R.I.

rary of John A. Burnham, Jun., Esq., Poston, ing Room of John A. Burnham, Jun., Esq., Boston.

Dining-Room of George James, Esq., Nahant. Hall of Charles S. Sargens, Esq., Brookline, Mass.

Mass.
Dining-Room of Charles A. Cummings, Esq.
Boston. Boston. Dining-Room of George W. Wales, Esq., Boston Hall of Francis Peabody, Esq., Danvers, Mass Memorial Hall, Cambridge, Mass.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is interesting. It gives heliotype views of the interiors of twenty-two rooms and halls, all but seven of which are in Massachasetts; and all of them except one, Harvard Memorial Hall, are views from private residences. It is happily true that from various causes there is now spreading through the country a conviction of the improvements that we Americans can make in our homes, and of the increase of comfort attainable by cultivating the too much neglected esthetic side of our nevery person interested in this direction, this volume will prove of inestimable interest and value. It shows what men of culture already have done; and from these many biasts can be taken by all in search of guidance or information.

. For sale by all Booksellers. Sent, post-aid, on receipt of price by the Publishers. JAMES R. OSGOOD & CO., BOSTON

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices, A. J. BICKNELL & CO.

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

AMERICAN ARCHITECT AND BUILDING NEWS.

WILLIAM P. P. LONGFELLOW,
OF THE AMERICAN INSTITUTE OF AECHITECTS.

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architect and Building News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but

as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable. The journal will contain as complete and trustworthy a

record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the AMERICAN INSTITUTE OF ARCHITECTS, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO., 131 Franklin Street, Boston.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to pay no money to canvassing agents, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECOR ATIONS

Churches, Halls.

Private Residences.

ETC., ETC., ETC



LIBER AL ESTIM**ATE**S

AND DESIGNS

MADE FOR

Fresco Painting and Decorations

IN ALL VARIETIES

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

Por Building

IRON AND WIRE RAILING. IRON CRESTINGS.

IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES AWD

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue.

BIER & COMPANY,

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO., 1299 Washington St., Boston,

DISCOURSES ON ARCHITECTURE. By VIOLLET-LE-DUC. Translated, with an I tory Essay, by HEFFEY VAN BRUNT, Follow Americ tute of Architects. Fully illustrated. 1 vol. royal Sv

chave no hesitation in saying deliberately, and without cation, that no work of any thing like equal value to can architects has seve been published in this country, a from the study of which they and all lovers of art lerive so many, so durable, and so important lessons a clevation and perfection of their art.

soes who are ongaged in the study it as a profession, or are preparing to do so, will gather an intelligent idea accope of this suggestive and instructive work from a six of the subjects treated upon in the ten discourses a compose this stately volume. They are as follows: hat is Barbarism? What is Art? What are the Bosis of Art to Civilization? What are the Social Consmot should be considered the stately supported the state of the construction as practised in Greek itecture.

3. Comparison between the Architecture of the ms. 5. The Methods to be followed in the Study of the cuture. The Basilicas of the Romans. The Domestic itecture of the Architecture of the Methods to the Consensual Consensual Consensual Consensual Country of the Architecture of the Methods to be followed in the Study of the Cuture. Style and Composition. The Thendeltow of the Principle of Architecture of the Middle Ages. 8. The Causea a Decline of Architecture. Some of the Principles of Electural Composition. The Renaissance in the West, respectively in France.

3. The Principles and Information of the Methods and Information of the Architecture of the West, respectively in France.

4. The Architecture of the West, respectively in France.

5. The Principles and Information of the Principles of the Country and the West, respectively the Principles of the Country architecture of the West, respectively the Principle of the Country architecture of the Principles and Information of the Principles and Information of the Principles of the Country architecture of the Principles of the Country architecture of the Principles and Information of

*.º For sale by Booksellers. Sent postpaid, on receipt of rice, by the Publishers,

JAMES R. OSGOOD & CO., Boston

Catalogue of Architectural Books

Mailed free to any address.

All Architectural and Scientific Books supplied at pub

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK



Franklin Press: Rand, Avery, & Co., Boston.





Vol. I. No. 11.]

BOSTON, SATURDAY, MARCH 11, 1876.

[PRICE 15 CENTS.

PROPOSALS.

TO ARCHITECTS, ETC. PROPOSALS.

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address Architects through the advertising columns of the "American Architects and Building Marchale of all descriptions, and announcements of interest to Architects, Buildings, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

CITY OF BOSTON. Sealed Proposals will be received at the Office of City Architect until TUESDAY, March 14, 1876, at twelve o'clock, m., for furnishing all materials and doing all the labor required for relating and plastering the Rice School Building, Dartmouth Street. Proposals for Lathing and Plastering the Rice School House."

The Committee reserve the right to reject any or all proposals received.

osals received.
For plans and specifications apply at the Office.
For the Committee,
WILLIAM POPE, Chairman.

TO CONTRACTORS. The undersigned committee will receive sealed proposals for the erection of a County Jail and Jailer's residence in the city of Macomb, county of McDonough, Illinois, from the 25th day of February, 1876, to Tuesday, the 14th day of March, 1876, at 12 o'clock, noon, according to the plans and specifications which will be on file in the County Clerk's office, in said city, on and after the 25th day of February, 1876. The committee reserve the right to reject any or all bids. The proposals must be filed in the office of the County Clerk of said county, on or before 12 o'clock, noon, of Tuesday, the 14th day of March, 1876, WM. C. Molleon, John Wayson, D. M. Wyckoff, McClurk, C. V. CHANDLER, MACOMB, ILL., Feb. 14, 1876.

PROPOSALS FOR ERECTION OF SCHOOL BUILDING, at Chicago, Iil. Sealed proposals will be received at the office of the Clerk of the Board of Education, No. 85 Fifth Avenue, Chicago, Iil. Ill Thursday, March 16, 1876, at 12 M., for the erection of a twelveroom brick school building, on Throop Street, south of Eighteenth Street, Chicago, In. accordance with plans and specifications to be seen at the office of W. J. Edbrooke, architect, No. 179 East Madison Street, Room II.

Proposals must be submitted separately, as follows: For masonry and deafening of the floors; for cut stone; for carpentry; for gulvalized iron cornice and conductor pipes; for composition roof; for plastering; for bumbing; for severage; and for asphalt pavement in the basement.

Every proposal submitted must be based upon a strict compliance with all the requirements of the plans and specifications.

Compinance with an article of the "Committee on Buildings and Grounda," indorsed "Proposals for Masonry," or otherwise, as the case may be.

The committee reserve the right to reject any one or all of the proposals submitted.

THOS. WILCE, J. P. OLINGER, A. SHOENENGER, Committee on Buildings and Grounds.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Minling Engineers, Architects, Teachers of Science, and Manufacturers.

and Manufacturers.
THE COURSE IN ARCHITECTURE embraces, besides the neseasary scientific and mathematical studies, the study of
architectural history, and the constant practice of original

Special students in Architecture are received into a two-years' special course. For particulars address WILLIAM R. WARE, Esq., Pro-ressor of Architecture, or Dr. SAMUEL KEBELAND, Secretary. Boston, Feb. 1, 1876.

WILLIAM S. BRAZER,

DECORATOR AND DESIGNER.

No. 9 HAMILTON PLACE,

BOSTON.

Opp. Park-Street Church,

W. H. WARREN,

BUILDER AND CONTRACTOR. Nos. 488 & 490 HARRISON AVENUE, BOSTON.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, New York, Philadelphia.

ELECTRIC BELL, AND ANNUNCIATORS SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Boston.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS

ROOFING PLATES
AND IRON
USED IN BUILDINGS

Exclusive Boston Agents for the sale of THE Union Inon Mills' Solid Wrought Iron Brams, and Thi "Burden Bret" Iron, Tensile Strength 78,000 lbs.

W. PEIRCE & CO..

STEAM, GAS, AND KEROSENE FIXTURES,

117 AND 119 COURT STREET.

BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

FLINT BROTHERS, Window Shades, Cornices, Italian Awnings, Enamelled Oil Cloths, Wire Screens, etc. No. 106 Tremont Street, Boston.

CALVANIZED IRON CORNICES, Campbell's Patent VENTILATING SKYLIGHTS Campbell's Patent Chimney Jacks, Window Caps, &c SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston

MEAD, MASON, & CO., Builders, Hard and Soft Wood Doors, Sashes, and Blinds, No. 86 Beverly Street, Boston.

WEATHER VANES, LIGHTNING Rods, Crestings, Finials, &c. HARRIS & CO., 111

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

JOHN'S PATENT ASBESTOS ROOFING DOWNIE, TRAINER, & CO., 167 Devonshire Street

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

PURE WHITE LEAD, LINSEED OIL TER, WOODWARD & MORTON, 99 Milk, cor. Federal Street, Boston.

J. C. STOREY & CO., 10 State St., Boston.
ROOFING MATERIALS, Coal Tar and its Products, Dry and Tarred Sheathing Papers.

ARCHITECTS

OFFICE OF FRANK W. WESTON, ARCHIV

17 Pemberton Square, Boston, Dec. 31, 1875.
The co-partnership of "Weston & Rand," architects, is this day dissolved by mutual consent, Mr. Rand retiring.

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

MEACHAM, Architect, 93

WALLBURG & SHERRY.

INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS.

No. 136 HARRISON AVENUE, BOSTON. HABERSTROH, (Established 1848)

FRESCO PAINTER.

No. 12 SCHOOL STREET, BOSTON.

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, BEAL ESTATE IMPROVERS, AND GENERAL AGENTS.
Carticular attention given to Repairing and Leasing tates and the Collection of Rents.

MORTGAGES NEGOTIATED. BOSTON.

NO. 11 BROMFIELD STREET,

W. J. McPHERSON, Established A. D.

MUBAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

CAPE ANN GRANITE COMPANY

GRANITE, BUILDING, AND MONUMENTAL WORK. Also-

GRANITE FLAGGING & PAVING BLOCKS

SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarries: BAT VIEW, GLOUCESTER, MASS.
JONAS H. FRENCH, Pres. H. H. BENNETT, Treas.
SCOTT WEBBER, Supt.

MONS. C. J. SOYARD, formerly 12 West 111. Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

2 "A" BRACON STREET, NEAR TREMONT, BOSTON. hops in Albany Street.

WARNER BAILEY, Sign and Ornamental

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon

Fred. Reed,

E. Hixon, jun.

Builders and Architects.

ATTENTION!

THE STOVER PATENT

BLIND HINGE & FAST

Is the Best in Use!

Manufactured and for sale by

J. W. Bailey & Co.,

22 Kneeland St., Boston.

EVERY VARIETY OF

BUILDERS' HARDWARE

CONSTANTLY ON HAND.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

ESTABLISHED 1888

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

VENEERS.

WALNUT (Blister, Mettled, Striped, Burl, and Cretch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., WHITE HOLLY. MAHOGANY. THUYA.

In Logs. Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS. Office, 10 Travers St., Boston.



Set Complete in Terry, \$75.

Set Complete in Plush. \$90. LODGE AND CHURCH FURNITURE

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

FACTORY AT EAST CAMBRIDGE.

With the approach of

The Building Season,

Lumber Dealers

AMERICAN

AND

BUILDING NEWS

131 Franklin St., Boston.



The Best Advertising Medium

Contractors.

Builders,

Decorators.

Dealers in Building Materials

OF EVERT DESCRIPTION

The American Architect

Building News.

131 Franklin St., Boston.

E. & G. G. HOOK & HASTINGS.

Church Organ Builders

1131 TREMONT ST., Boston.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

here colors will change less upon exposure, and prove re durable, than pure White Lead Paints colored in the linary way.

Warranted more Economical,

More Durable and Reliable, Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET,

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Palm & Co.'s Transfer Ornaments, California Pumice Stone, Rang's Franch Limber, and Atlantic Lead.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR. 1876. 1876.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly, paid.
PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

THIRD YEAR. 1876 PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

The Art Furnishing Company,

170 TREMONT STREET, BOSTON.

Designers and Importers of PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS. STRADE MARK PL



Contractors for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of

PIRE-PLACE LININGS, HEARTHS, AND HALL, VES
TIBULE, AND BANK

FLOORS.

Manufacturers of Fine Furniture, and Importers of rare old

No. 170 TREMONT ST., BOSTON.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE Who furnishes materials for the construction

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Braze Hardware manufactured to order from own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MANUPACTORY 19 WAREHAM STREET

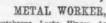
Any Manufacturer or Dealer

or ornamentation of Buildings will find it to

his advantage to advertise in the

American Architect & Building News.

O. H. PERRY.



MADE TO ORDER,

Franklin, corner Centre Street, New York.

ENGRAVINGS FROM LANDSEER. Rethe utmost deality some of the most famous of Lanueverthe utmost deality "The Challenger," "Chillingham Red
Deer," "The King of the Forcet," "The Monarch of the
Deer," "The King of the Forcet," "The Monarch of the
Glern," "High Life." "Low Life," "Laying Downthe Law,"
"Shoeing the Blay Mare," and others of equal beauty,
Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTOK.

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advernts, printed circulars, &c. Artisans of all descriptions, and especially those who manufacture ordeal in Household Furniture, Ornamental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND BUILDING

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS.

and furnish any required number of cuts by the Heliotype Relief Process.

131 Franklin St., Boston

THE BOOK OF AMERICAN INTERIORS. BY CHARLES W. ELLIOTT.

ng views of twenty-two striking in-rexisting in this country, and about lier illustrations. With descriptive and essays on the Library and Diu-Quarto. \$10.00.

HELIOTYPES OF

of H. W. Longfellow, Esq., Cambridge, Mass.
Dining-Room of Dr. J. R. Chadwick, Boston.
Library of Donald G. Mitchell, Esq., West Haven, Conn.

en, Conn. rary of Dr. Theo. F. Breck, Springfield, Mass. ing-Room of Dr. Breck. ing-Room of George Ward Nichols, Esq.,

Cincinnati. at Hail of Major Rathbone, San Francisco. rary of George B. Chase, Esq., Bos.on, ing-Room of Hon. J. V. L. Fruyn, Albany,

N.Y.
Ina-Room of Hen. J. V. L. Pruyn.
Ina-Room of Hen. J. V. L. Pruyn.
Inarry of Win. C. Bryant, Esq. Rosyln, L.I.
Idy, Harvard College.
Ining Room of James Lee, jun., Esq., Boston.
awing Room of Prof. F. Rogers, Newport,
R.I.

ary of John A. Burnham, jun., Esq., Boston. ng Room of John A. Burnham, jun., Esq.,

Boston.

Dining-Room of George James, Esq., Nahsnt.
Hall of Charles S. Sargent, Esq., Brookline
Mass. Mass.
Dining-Room of Charles A. Cummings, Esq.,
Boston.

Boston.

Boston.

Boston Hall of Francis Peabody, Esq., Danvers, Mass

Memorial Hall, Cambridge, Mass.

Memorial Hall, Cambridge, Mass.

"This book is as unique as it is intergives heliotype views of the interiors of two rooms and halls, all but seven of tim Massachusetts; and all of them es Harvard Memorial Hall, are views fro causes there is now spreading through the action of the memorial hall, are views from the causes there is now spreading through the action of the memorial hall, are the series of comfort attainable by electron of the too much neglected sathette side tures, and blending beauty with uterly person interested in this direct volume will prove of inestinable invalue. It shows what men of cultur have done; and from these many his taken by all in search of guidance or

, For sale by all Booksellers. Sent, post-nid, on receipt of price by the Publishers. JAMES R. OSGOOD & CO., BOSTOR

MANUFACTURERS

Furniture

Should advertise in the

American Architect & Building News

which discusses the whole subject of

Interior Decoration.

※Nº.8.HOTELPELHAM, TREMONT STREET※ CHARLES WOODBERRY & SON,

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-rs, Architectural Plans, Detail Drawings and Specifications for Insurance Adjusters between Insurance Companies waers or Occupants, in case of Fire or Damage; Estimates ven for all Trades in Building, &c.

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY.

158 TREMONT STREET.

BOSTON.

National Fine Art Foundery,

218 East 25th Street, New York.

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Be supplied at publishers' prices,

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

AMERICAN ARCHITECT AND BUILDING NEWS.

Messas. James R. Osgood & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Abchitect and Building It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad. including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a record as possible of all events of professional importance;

and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of whatever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO., 131 Franklin Street, Boston.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bank-draft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECUR ATIONS

Churches, Halls.

Private Residences.

ETC., ETC., ETC.



AND DESIGNS

MADE FOR

Fresco Painting and Decorations

IN ALL VARIETIES.

Boston Ornamental Iron Works

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING,

> IRON STABLE FIXTURES, POUNTAINS.

GARDEN STATUARY,

WEATHER VANES.

IRON CRESTINGS.

BUILDERS' HARDWARE

Estimates given on all kinds of ron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY,

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.

DISCOURSES ON ARCHITECTURE.—
By 'VIOLLET-LE-DUC. Translated, with an Introductory Essay, by HENRY VAN BRURY, Follow American Institute of Architects. Fully illustrated. I vol. royal 8vc., 88.00

JAMES B. OSGOOD & CO., BOSTON.

Catalogue of Architectural

Mailed free to any address.

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.



Franklin Press: Rand, Avery, & Co., Boston





Vol. I. No. 12.]

BOSTON, SATURDAY, MARCH 18, 1876.

[PRICE 15 CENTS.

PROPOSALS.

TO ARCHITECTS, ETC. PROPOSALS.

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."
Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

the country.

CITY OF BOSTON, Sealed Proposals will

Will be received at the Office of City Architect until

TUESDAY, March 21, 1876, at 12 o'clock, M., for furnishing
all materials and doing all the labor required to build and
complete a stable in the yard of the S8ffolk County Jail.

Proposals to be addressed to the undersigned, and indersed

"Proposal for Building Stable for Suffolk County Jail."

The contractor will be obliged to furnish satisfactory
bonds for the faithful performance of the work.

The Committee,

The Committee,

For plans and specifications apply at the
office.

For the Committee,

WILLIAM POPE, Chairman.

BOSTON SOCIETY OF ARCHITECTS. D Those persons who intend presenting works for the Public Exhibition of Drawings to be contributed by the Boston Society of Arceliects to the Centennial Exhibition at Philadelphia, are hereby informed that such drawings must be sent to No. 64 Boylston 84. Boston, between the 18th and 22d days of March instant, after which latter date nothing will be received.

Boston, March 11, 1878. EDWARD C. CABOT,
Chairman of Committee.

CHAITMAN OF TAUNTON, March 14, 1876.

Sealed proposals will be received at the office of the City Clerk, until SATURDAY, April 1, 1876, at twelve o clock, m., for furnishing all materials and doing all the labor required for the enlargement and remodeling of City Hall Building.

Proposals to be addressed to the Committee on Public Property, and indoned "Proposals for Enlarging and Remodeling City Hall Building."

The Committee reserve the right to reject any or all proposals received.

oasis received.
For plans and specifications apply at the office of the City
For plans and specifications apply at the office of the City
For plans and specifications apply at the office of the City
For the Committee,
WM. L. WALKER, Chairman.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D. MURAL PAINTER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

WALLBURG & SHERRY,

INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)

FRESCO PAINTER, No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,

DECORATOR AND DESIGNER, No. 9 HAMILTON PLACE, Opp. Park-Street Church, Bos Boston.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

W. H. WARREN,

BUILDER AND CONTRACTOR, Nos. 488 & 400 HARRISON AVENUE, BOSTON.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Wainut Street, | Roston. | Philadelphia.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. 8. W. FULLER, 63 Devonshire Street, Box

CAPE ANN GRANITE COMPANY
GRANITE BUILDING, FURNISH—
ALSO GRANITE FLACAND & PAYING BLOCKS,
SIMMONS BUILDING, 60 WATER ST., BOSTON.
Quarries: BAY VIEW. GLOUCESTER. MASS.
JONAS H. FRENCH, PASS.
SCOTT WEBBER, SUPL.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid Weought Iron Beams, and The
"Burden Best" Iron, Tensile Strength 78,000 lbs.

M. W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES, 117 AND 119 COURT STREET, BOSTON.

Lowest Estimates for furnishing Private and Public Build-ings and Churches.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, It

WINDOW VENTILATORS.—WHITE'S PATENT supplies pure air, without dust or coal draughts. Easily adjusted to large or small rooms. Should be examined by Architects and Builders. W. H. KIMBALL, Agent, 120 Tremont Street, Boson.

EO, F. BLAKE MANUFACTURING CO MANUFACTURERS OF BLAKE STEAM PUMP CAUSEWAY AND FRIEND STREETS, BOSTON.

THE STOVER PATENT BLIND HINGE W. BAILEY & CO., 22 Kneeland St., Boston.

CALVANIZED IRON CORNICES, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, SSI Harrison Avenue, Boston.

MEAD, MASON, & CO., Builders, Hard and Soft Wood Doors, Sashes, and Blinds, No. 86 Beverly Street, Boston.

WEATHER VANES, LIGHTNING Rods, Crestings, Finials, &c. HARRIS & CO., 111 Kingston Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

JOHN'S PATENT ASBESTOS ROOFING.
DOWNIE, TRAINER, & CO., 167 Devonablire Street,

PURE WHITE LEAD, LINSEED OIL, Colors, Varnishes, and Painters' Supplies. CARPENTER, WOODWARD & MORTON, 99 Milk, cor. Federal Street, Boston.

FLINT BROTHERS, Window Shades, Cornices, Italian Awnings, Enamelled Oil Cloths, Wire Screens, etc. No. 106 Tremont Street, Boston.

BUILDERS' SUPPLIES.

ROOFING. An article indorsed by most experienced Architects and Builders, as combining beauty and durability with fire-proof qualities and cheapness to an extraordinary degree, is a valuable aid in building or repairing roofs, every community must half with assisfaction, particularly where piers, factories, rolling-mills, and general manufacturing establishments are located. Its testimonials are most numerous, reliable; well worth the investigation of all real estate owners and farmers who have an old roof to mend and preserve, or a new one to lay; an article free from tar, ready for use, low price, and easily applied with positive satisfaction, either as an ornament of community of the production as to be in active demand throughout the United States; its patrons are thousands, and the production not only exceeds in magnitude that of all other similar roofings combined, but-in active demands, and the production not only exceeds in magnitude that of all other similar roofings combined, but-in active demands and the production of the production of the similar roofings combined, but-in active demand throughout the United States; its patrons are thousands, and the production not only exceeds in magnitude that of all other similar roofings combined, but-in active demand similar profess and water proof unites beauty with utility. These goods are commercially known as Gline's Rubber Roofing and State Roofing Company, thrown as Gline's Rubber Roofing and State Roofing Company, limited, 8 Codar Street, N. Y.; 49 80. Front Street, Phila. Their prices are very low and estimates free. Samples and 100 page book mailed any one stating where they saw this notice. Write at once.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS,
AS INITED IN THE CAPITOL AT WASHINGTON,
And in numerous Churches, Banks, and Dwellings in every

part of the Country.
Glazed and Enamelled Tiles for Mantels, Hearths, Wain-

coting, &c., and for Exterior Decoration.
MILLER & COATES,
279 PEARL STREET, NEW YORK.

ARCHITECTS.

OFFICE OF FRANK W. WESTON,

VISTOR & RAND)
17 Pemberton Square, Boston, Dec. 31, 1875.
sership of "Weston & Rand," architects, is
red by mutual consent, Mr. Rand retiring.

17 Pemberton Square, Boston, Dec. 51, 1010.
The co-partnership of "Weston & Rand," architects, is this day dissolved by mutual consent, Mr. Rand retiring.
GRIDLEY J. F. BRYANT AND LOUIS P. BOGERS, Architects, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect, Office 19 Broad, corner Central Street, Boston.

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98 Water Street, Boston.

MONS. C. J. SOYARD, formerly 12 West

FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

2 " A " BEACON STREET, NEAR TREMONT, BOSTON. Shops in Albany Street.

S. P. TOLMAN & E. A. HUNTING,

BUILDERS, REAL ESTATE IMPROVERS, AND

BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS.

Particular attention given to Repairing and Leasing Estates and the Collection of Renta.

MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET,

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon,

E. Hixon, jun

W. J. McPHERSON & CO...

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

E. & G. G. HOOK & HASTINGS.

Church Organ Builders

1131 TREMONT ST., Boston.

MASS. INSTITUTE OF TECHNOLOGY. nists, Metallurgists, Civil, Mechan ers, Architects, Teachers of Science and Mining Engineers

reintecturar misory, and also conserved into a two-session.

Special students in Architecture are received into a two-sars' special course.

William R. Ware. Esq., Pro-

special course, particulars address William R. Ware, Esq., Pro of Architecture, or Dr. Samuel Kneeland, Secretary Ton, Feb. 1, 1878.





Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,
ARCHITECTS, BUILDERS, DECORATORS,
STAIR BUILDERS, CAR BUILDERS,
ORGAN MANUFACTURERS, STEAMBOAT
BUILDERS, ETC., ETC.

A G E N T S.

Roston.—Parsons & Torry, 606 Washingon st. Pitkin Broz. 20 Charlestown st. Allen & Noble, 94 Hanover st. Bogman & Vingl. Doctor, Farters & Bognon, 18 Cornhill; Gardner & Chandler, 1221 Washington st. B. L. Solomon & Sons, 49 Franklin street.

Providence, R. L. — Belcher Broz, 27 Weyboset st. New York City.—A. Hammacher & Co., 200 Bowery; L. J. Tillotton & Co. 8 Dey st. O. A. Nathusius, 225 Bowery; B. L. Solomon & Sons, 630 Broadway; E. R. Krumm, 121 Essex street; L. J. Tillotton & Co. 8 Dey st. O. A. Nathusius, 225 Bowery; B. L. Solomon & Sons, 630 Broadway; E. R. Krumm, 121 Essex street; Chas, E. Kugler, 10 Division at; Speyer Broz. 110 Bowery; W. F. Hubinger, 185 Grand, 2. L. W. T. — Harmann Weber, 124 Graham av. A Honny. — Maurice E. Viele, 48 State st.

Rochester.—Pollock, Weaver, & Co., 17 Buffalo st.

Philadelphia. — Thomas Thompson, Sons, & Co. 240 S. 3d st. Nobil, Brown, Nobil, & Co., 225 S. 21 st.; B. L. Middleton, 817 N. 2d st. B. L. Solomon & Sons, 31 N. 2d st.; F. A. Bucren, 435 E. Philadelphia. — Thomas Thompson, Sons, & Co., 240 Sons, 24 South Charles st. Warfeld & Bohr, 25 So. Sharp st. Cleveland, O. — George Worthington & Co., 26 Hanover st; John Duer & Sons, 24 South Charles st; Warfeld & Bohr, 25 So. Sharp st. Cleveland, O. — George Worthington & Co., 30 Water st; Wm. Bingham & Co., 146 Water st.

Cinculars mailed. Galescher & Ruhlman, 534 Main st; J. L. Wayne & Son, 124 Main st. & Son, 74 Randolph st; A. A. Ulrich E. L. Marker, C. P. May & Co., 103 Woodridge street. St. Louis. — Geo. A. Rubelmann & Co., 287 N. 6th st. Washington. — F. P. May & Co., 163 Woodridge street. St. Louis. — Geo. A. Rubelmann & Co., 163 Market street. Montreal. — James Walker & Co., 163 St. James st. Quebec. — S. J. Shaw a Co., 18 J. John st. Hamilton, Ont. — Watson & Thompson, 16 McNab st. Sarp Our goods can be purchased of the above Agents at the same prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.

ESTABLISHED 1838.

JOSEPH L. ROSS,

MANUFACTURER OF

SCHOOL FURNITURE.

ALSO, FURNITURE FOR

Buildings, Etc., Etc.

42 CHARDON STREET, BOSTON.

The Best Advertising Medium

Contractors.

Builders,

Decorators,

Dealers in Building Materials

OF EVERY DESCRIPTION.

The American Architect

Building News.

131 Franklin St., Boston.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

of House and other Painting, both outside and ide work.

These colors will change less upon exposure, and prove
re durable, than pure White Lead Paints colored in the
linary way.

Warranted more Economical,

More Durable and Reliable, Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET.

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.



Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

THIRD YEAR. 1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

STABLISHED 1888

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY, WHITE HOLLY, THUYA. ROSEWOOD, etc.,

> In Logs, Planks, Boards, and Veneers. Bowels all Sizes suitable for

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

The Art Furnishing Company,

170 TREMONT STREET, BOSTON.

Designers and Importers of PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION.

AND BATHROOM LININGS. STRADE MARK P.



Contractors for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

rers of Fine Furniture, and Importers of rare old

No. 170 TREMONT ST., BOSTON.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially conjete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from

r own patterns, or from architecta' drawings. 20 DOCK SQUARE, BOSTON, MANUFACTORY 19 WAREHAM STRI

or ornamentation of Buildings will find it to his advantage to advertise in the

Who furnishes materials for the construction

Any Manufacturer or Dealer

American Architect & Building News.

O. H. PERRY,

METAL WORKER,

ntcheons, Locks, Hinges, Andiron Fenders, Knockers, &c., MADE TO ORDER,

MADE:
Franklin, corner Centre Street,
New York.

ENGRAVINGS FROM LANDSEER. Re-Grandvings FROM LANDSEER

groduced in Hellotype, with a sketch of the
Works of the Artist. Twenty-four Plates, reproduc
the utmost fidelity some of the most famous of La
Works, including "The Challenge," "Chillings
Deer," "The King of the Forest," The Monarcl
Glen," High Life, "Low Life," Laying Down th
"Shoeing the Bay Mare," and others of equal

Glen," High Mare," and others of Co., Boston.

Glen, "Bhoeing the Bay Mare," and others of Co., Boston.

JAMES R. OSGOOD & CO., Boston.

HELIOTYPE CARDS.

From any design furnished, an elegant card may be printed by the Heliotype Process. Then by the Heliotype Relief Process, an engraving may be obtained at a small additional cost, which may be used in newspaper advertisements, printed circulars, &c. Artisans of all descriptions, and especially those who manufacture ordeal in Household Furniture, Orna mental Goods of any description used for Decoration or Building Purposes, or otherwise, are requested to give special attention to these facts. Those who desire to have cards of peculiar and unique patterns inserted in the

AMERICAN ARCHITECT AND BUILDING NEWS.

can furnish their own designs, or have them executed by the publishers, who will also print

HELIOTYPE CARDS,

and furnish any required number of cuts by the Heliotype Relief Process.

131 Franklin St., Boston,



THE BOOK OF AMERICAN INTERIORS.

BY CHARLES W. ELLIOTT

ning views of twenty-two striking in-we existing in this country, and about lailer illustrations. With descriptive as and essays on the Library and Diu-Quarto. \$10.00.

HELIOTYPES OF

Library of H. W. Longfellow, Esq., Cambridge, Mass.
Dining-Room of Dr. J. R. Chadwick, Boston.
Library of Donald G. Mitchell, Esq., West Haven, Conn.

en, Conn.
Library of Dr. Theo. F. Breck, Springfield, Mass.
Dising-Room of Dr. Breck.
Dising-Room of George Ward Nichols, Eaq.,
Cinclinnat.
Great Hall of Major Rathbone, San Francisco.
Library of George B. Chase, Esq., Boston,
Dining-Room of Hon. J. V. L. Fruyn, Albany,
N.Y.

N.Y.

(na-Room of Hon. J. V. L. Pruyn,

rary of Wm. C. Bryant, Esq. Rosyln, L.I.

dy, Harvard College.

(ing Room of James Lee, jun., Esq., Boston,

wing Room of Prof. F. Rogers, Newport,

R.I.

Library of John A. Burnham, jun., Esq., Boston. Dining Room of John A. Burnham, jun., Esq.,

Dining-Room of George James, Esq., Nahant. Hall of Charles 8. Sargent, Esq., Brookline Mass. Mass. ing-Room of Charles A. Cummings, Esq., Boston.

Boston, Dining-Room of George W. Wales, Esq., Boston Hall of Francis Peabody, Esq., Danvers, Mass Memorial Hall, Cambridge, Mass.

Memorial Hall, Cambridge, Mass.

"This book is as unique as if is interesting, gives heliotype views of the interiors of twer two rooms and halls, all but seven of which in Massechusetts; and all of them except diarvard Memorial Hall, are views from presidences. It is happily true that from variety as conviction of the Improvements that Americans can make in our homes, and of increase of comfort attainable by cultivath the too much neglected asthetic side of our tures, and blending beauty with utility every person interested in this direction, volume will prove of inestimable interest value. It shows what men of culture alrehave done; and from these many lints car taken by all in search of guidance or infortion."— Hartford Courant.

"«* For alle by all Booksellers. Sent. 3.

. For sale by all Booksellers. Sent, post-eaid, on receipt of price by the Publishers. JAMES R. OSGOOD & CO., BOSTON

MANUFACTURERS

Fine Furniture

Should advertise in the

American Architect & Building News

which discusses the whole subject of

Interior Decoration.

CHARLES WOODBERRY & SON.

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies Owners or Occupants, in case of Fire or Damage; Estimate given for all Trades in Building, &c.

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET.

BOSTON.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronzo.

CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Be pplied at publishers' prices, A. J. BICKNELL & CO., ABCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

OF THE

AMERICAN ARCHITECT AND BUILDING NEWS.

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architect and Building News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page

plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, - in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers.

Address all communications to the publishers,

JAMES R. OSGOOD & CO... 131 FRANKLIN STREET, BOSTON.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

FOR

Churches, Halls,

Private Residences,

ETC., ETC., ETC



AND DESIGNS

MADE FOR

Fresco Painting and Decorations

IN ALL VARIETIES.

Catalogue of Architectural

Mailed free to any address. All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING,

FOUNTAINS,

IRON CRESTINGS. IRON STABLE FIXTURES.

VASES.

GARDEN STATUARY.

WEATHER VANES.

AND

BUILDERS' HARDWARE

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY,

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO. 1299 Washington St., Boston,

DISCOURSES ON ARCHITECTURE. —
By VIOLERT-LE-DUC. Translated, with an Introductory Essay, by HENRY VAN BRUNT, Fellow American Institute of Architects. Fully illustrated. I vol. royal 800., 88.00

"We have no hesitation in agving deliberately, and unalification, that no work of any thing like equal valued fiction, that no work of any thing like equal valued fiction, that no work of any thing like equal valued fiction in the study of which they and all love may derive so many, so durable, and so important for the elevation and perfection of their art.

"Those who are engaged in the study of archite mateurs, and those who are precising it as a profession of the sopposition of the sopposition of the sopposition of the subjects treated upon in the ten dis which compose this study volume. They are as fallowed in the subjects treated upon in the ten dis which compose this study volume. They are as fallowed for the subjects treated upon in the ten dis clinical subjects that is art? What are the Socialism most favorable to the Development of Architecture. 3. Comparison between the Architectures and Romans. 4. The Architecture Antoninus and conditions. The Condition of Vezelay; Sections, The Control of Peterborough, The Cathedral of Peterborough, The Cathedral of Peterborough, The Cathedral of Boulone, and the Palace of the Tulieries."—Christian Intelligencer (New York).

**For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.

Franklin Press: Kand, Avery, & Co., Boston.





Vol. I. No. 13.]

BOSTON, SATURDAY, MARCH 25, 1876.

[PRICE 15 CENTS.

PROPOSALS.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings, will do well to address. Architects through the advertising columns of the "AMERICAN ARGIITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

CITY OF TAUNTON, March 14, 1876.
Sealed proposals will be received at the office of the City Clerk, until SATURDAY, April 1, 1876, at twelve eclock, R., for furnishing all materials and doing all the labor required for the enlargement and remodelling of City Hall Building.

labor required for the enlargement and remousing was all labor required for the enlargement and remousing was all labor required for the committee on Public Property, and indoresd "Proposals for Enlarging and Remodelling City Hall Building."

The Committee reserve the right to reject any or all properties of the committee reserve the right to reject any or all properties.

is committee reserve the right to reject any or all pro-ids received.

or plans and specifications apply at the office of the City
k, or of HARTWELL & SWASEY, Architects, 29 Pem-

For the Committee, WM. L. WALKER, Che

NEW YORK BOARD OF EDUCATION. Sealed Proposals will be received by the School Trusees of the Tenth Ward, at the Hall of the Board of Educaion, comer of Grand and Elm Streets, New York, until
IONDAY, the 20th day of March, 1876, and until 4 o'clock
is, on said day, for erecting new wings, and for alteraless and-additions to Grammars Echool-house, No. 7, on
hristic Street, near Hester Street.
Plans and specifications may be seen at the office of the
uperintendent of School Buildings, No. 146 Grand Street,
hid floor.

Plans and specifications may be seen at the office of the Superintendent of School Buildings, No. 146 Grand Street, third floor.

Proposals must state the estimate for each branch of the work separately, and be indorsed, "Proposal for Mason Work," "Proposal for Carpenter Work," "Proposal for Painting," "Proposal for Heating, ""Proposal for Furniture." Two responsible and approved sureties, readents of this city, will be required from each successful bidder. Proposals will not be considered unless sureties are named.

The trustees reserve the right to reject any or all of the proposals submitted.

FRANCIS H. WEISMANN, M.D., PETER DENNERLEIN, ALONZO TRUESDELL, HENRY R. ROOME, JOHN WILLIAMSON, Board of Trustees, Tenth Ward.

THE CITY OF PROVIDENCE.
TO CONTRACTORS.
The Joint Committee on Police of the City Council will receive Scated Proposals for the exection of a Police Station at the corner of Martin and Ashburton Streets.
All proposals must be received at the office of the Super-intendent of Public Buildings, on or before MONDAY, April 3, 1876, at twelve c'olock, w.
Plans may be seen, and printed copies of specifications may be had, at the office of George W. Cady, Architect, No. 164 Westminster Street.
The committee reserve the right to reject any or all bids.
EDWIN A. SMITH, Chairmas.

CONTRACTORS & BUILDERS

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 488 & 490 HARRISON AVENUE, BOSTOR.

MEAD, MASON, & CO., BUILDERS
Steam Mill at Concord. N. H. Offices, 10 Canal Street
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of MANTELS,
FURNITURE, WOOD MANTELS,
AND ALL FIRST-CLASS CABINET WORKS OF EVERY
DESCRIPTION.
2 "A" BEACON STREET, SEAR TREMONT,
BOSTON.

8hops in Albany Street.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS.
Particular attention given to Repairing and Leasing
Estates and the Collection of Renta.
MORTGAGES NEGOTIATED.

KO. 11 BROMFIELD STREET,
BOSTON.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings. | 141 Centre Street, | 427 Wainut Street, | Boston. | New York. | Philadelphia.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.
S. W. PULLER,
Devonshire Street, Bos

CAPE ANN GRANITE COMPANY GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER 87, BOSTON.
QUARTIES: BAY VIEW, GLOCESTER, MASS.
JONAS H. FRENCE, Pres.
SCOTT WEBBER, Supl.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Usion
1800 Mills' Solid Wordent IRON BRANS, and The
"Burden Beet" Iron, Tessile Strength 78,000 lbs.

GAS FIXTURES

OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

M. W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. Gilt, Bronze, and Glass Chandellers; Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

WINDOW VENTILATORS.—WHITE'S
PATENT supplies pure air, without dust or coal
draughts. Easily adjusted to large or small rooms. Sbould
be examined by Architects and Builders. W. H. KIMBALL, Agent, 120 Tremont Street, Boston.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTON.

GALVANIZED IRON CORNICES, CHAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimpey Jacks, Window Caps, &c. SMITH & VAN NOORDEN, SMI Harrison Avenue, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 46 Arch Street, Boston.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

BUILDERS' SUPPLIES

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BERRA QUARRIBE.

Sole Agent for STONE.

BERLIN And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

WEATHER VANES, LIGHTNING Rods, Crestings, Finials, &c. HARRIS & CO., 111 Kingston Street, Boston.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

DESIGNER.

ECCLESIASTICAL DECORATOR

440 TREMONT STREET, BOSTON, MASS.

WALLBURG & SHERRY,

INTERIOR PAINTERS AND DECCRATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)

FRESCO PAINTER, No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,

DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

ARCHITECTS.

OFFICE OF FRANK W. WESTON,
(Late WESTON & RAND) ARCHITECT,
17 Pemberion Square, Boston, Dec. 31, 1878.
The co-partnership of "Weston & Rand," architects, is
this day disaolved by mutual consent, Mr. Rand retiring.
GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architects, 17 Pemberton Sq., Boston. CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School Street, Boston.

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square. HENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton
Square Roston.

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUPACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Works

180 Washington St.,

BOSTON.

E. Hixon

E. Hixon, jun.

J. McPHERSON & CO.,

Ecclesiastical. Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS.

1131 TREMONT ST., Boston.

Any Manufacturer or Dealer

namentation of Buildings will find it to

his advantage to advertise in the

American Architect & Building News.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of heat, which insures always a proper condition of the air as to purity, temperature, and relative humidity; perfect circulation and distribution, combined with ready means for adjustment to the varying demands upon the apparatus, dependent upon the state of the weakher, and the number of people to be supplied with air. It can be employed as the instrument of ventilation alone, or warming alone, or both together, wholly or partly, and admits of application to apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the security of health, and stake my
reputation as a sanitary expert that all my work shall be
thoroughly done, as well as honestly done. I employ only
faithful and skilful mechanics, and rely for success not so
much apon methods involving the use of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles
of common knowledge.

Among those who have employed me are Alex. S. Porter,
R. B. Forbes, Mrs. David Osgood, American Insurance Co.,
Francis Peabody, A. T. Byrnes, Alexander H. Rice, Wm.
Amory, Jun., Samuel H. Russell, S. E. Sevall, A. T. Perkins;
A. P. Baker, M.D., Newport; B. Schlesinger, New York.

Frederic Tudor.

Sanitary Engineer.

Semberton Square, Boston.

From 10 till 1.

ESTABLISHED 1838.

JOSEPH L. ROSS,

FURNITURE. *SCHOOL*

ALSO, PURNITURE FOR

42 CHARDON STREET, BOSTON.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.

With the approach of

The Building Season,

Lumber Dealers

American Architect & Building News.

131 Franklin St., Boston.

The Best Advertising Medium

Contractors,

Builders.

Decorators,

Dealers in Building Materials

The American Architect

Building News.

131 Franklin St., Boston.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

These colors will change less upon exposure, and prove one durable, than pure White Lead Paints colored in the rdinary way.

Warranted more Economical,

More Durable and Reliable.

Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Olis, and Chemicala.

Manufacturers of Varnishes and Japans.

34 INDIA STREET.

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stons, Reno's French Umber, and Atlantic Lead.

MASS. INSTITUTE OF TECHNOLOGY. MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-year's scientific and professional training for Chemists, Metallurgists, Civil, Mechanizal, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

The Covers in Architecture embraces, besides the necessary scientific and mathematical studies, the study of rehitectural history, and the constant practice of original lesion.

architectural history, and the constant produced design.

Special students in Architecture are received into a twoyears' special course.

For particulars address WILLIAM R. WARR, Esq., Professor of Architecture, or Dr. Samuel Kheeland, Secretary.

BOSTON, Feb. 1, 1876.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book Architecture.

THIRD YEAR. 1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mettled, Striped, Burl, and Crotch).

TULIP. FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, THUYA. ROSEWOOD, etc., WHITE HOLLY. MAHOGANY.

In Logs. Planks, Boards, and Veneers. Dowels all Sizes

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS. Office, 10 Travers St., Boston.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

oms, 27 Sudbury, and 69 & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects,
Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books applied at publishers' prices, A. J. BICKNELL & CO.,

A. J. BICKNELL & CU.,
ARCHITECTURAL BOOK PUBLISHERS,
OF WARREN STREET. New York.
No. 8 Hotel Pelham, Tremont street, Boston.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



ROETH & MAY. FURNITURE AND DECORATION,



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 63 Washingon st; Pitkin Broa. 5 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 23 Washington st; B. L. Solomon & Sons, 49 Franklin street.
Providence, R. I.—Belcher Broa, 27 Weybosset st.
New York City.—A. Hammancher & Co., 39 Bower; New York City.—A. Hammancher & Co., 39 Bower; belowned as the street; has. E. Kugler, 10 Division st.; Seyer Bros, 110 Bower; W. F. Lolomon & Sons, 69 Broadway; E. R. Krumm, 121 Essex street; has. E. Kugler, 10 Division st.; Seyer Bros, 110 Bower; W. F. Lubinger, 188 Grand st; C. A. Stock, 116 Wooster street.

Brooklyn, (E. D.) X. Y.—Hermann Weber, 134 Grahamav.
Albanay.—Maurics E. Viele, 41 State st.
Hachester.—Foliote, Weaver, & Co., 17 Buffalo st.
Brooklyn, (E. D.) X. Y.—Hermann Weber, 134 Grahamav.
Albanay.—Maurics E. Viele, 41 State st.
Hachester.—Foliote, Weaver, & Co., 17 Buffalo st.
Brooklyn, (E. D.) X. Co., 252 St. 31; B. L. Middleton, 817; d. st; B. L. Solomon & Sons, 31 N. 24 st; F. A. Bueren, 435 E. Suphin et; Thomas Knight & Co., 207 Ridge ave, and Green st.
Pittaburg.—Joseph Woodwell & Co., cor, 24 ave, and Wood st.
Brittaburg.—Joseph Woodwell & Co., cor, 24 ave, and Wood st.
Brittaburg.—Joseph Woodwell & Co., cor, 24 ave, and Wood st.
Brittaburg.—Joseph Woodwell & Co., cor, 24 ave, and Wood st.
Brittaburg.—Joseph Woodwell & Co., cor, 24 ave, and Wood st.
Brittaburg.—General & Kuhlman, 834 Main st; J. Lowers, 435 E.
Chiceago.—J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich Co., 18 Fifth ave; J. Liebenstein & Co., 22 Randolph st; A. A. Ullrich Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph st; A. A. Ullrich Co., 16 Fifth ave; J. Liebenstein & Co., 24 Randolph st; A. A. Ullrich Co., 16 Fifth ave; J. Liebenstein & Co., 26 Randolph st; A. A. Ullrich Co., 16 Fifth ave; J. Liebenstein & Co., 26 Randolph st; A. A. Ullrich Co., 16 Fifth ave; J. Liebenstein & Co., 16 Randolph st; A. A. Ullrich Co., 16 Fifth ave; J. Liebenstein & Co., 16 Fifth ave; J. Liebenstein

my Our goods can be purchased of the above Agents at the

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.

The Art Furnishing Company,

170 TREMONT STREET, BOSTON.

Designers and Importers of

PLAIN, ENCAUSTIC, AND ART

TILES.

Also Tiles

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS. STRADE MARK 2



Contractors for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

Manufacturers of Fine Furniture, and Importers of rare old

No. 170 TREMONT ST., BOSTON.



MANUFACTURERS

Furniture

Should advertise in the

American Architect & Building News

Interior Decoration.

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET,

BOSTON.

CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Constr-ors, Architectural Flans, Ioetail Drawings and Specification Fire Insurance Adjusters between Insurance Companion where or Occupante, in case of Fire or Damage; Estima (ten for all Trades in Building, &c.

NGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famons of Landseer's Works, including "The Challenge," "Chillingham Red (clen,"" Helh Life, "Low Life, "Laying bown the Artist Colon," Helh Life, "Low Life, "Laying bown the Artist Colon," But Life, "Low Life, "Laying bown the Sky Marc," and others of equal beauty. Quarto. Price, 810.00.

JAMES R. OSGOOD & CO., BOSTON.



O. H. PERRY,



METAL WORKER,

Escutcheons, Locks, Hinges, Andirona, Fenders, Knockers, &c.,

MADE TO ORDER, Franklin, corner Centre Street, New York.

ART FOLIAGE. By J. K. Colling. 1 vol.

quarto. 72 plates. \$15.00

* For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTOR

OF THE

AMERICAN ARCHITECT AND BUILDING NEWS.

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architect and Building News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to

sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone.

The journal is not intended to be local or sectional, but as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable.

The journal will contain as complete and trustworthy a record as possible of all events of professional importance; and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, executed or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law, — in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'AMERICAN ARCHITECT AND BUILDING NEWS,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and for such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

TERMS.

The American Architect and Building News will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publisher. by the publishers.

Address all communications to the publishers, JAMES R. OSGOOD & CO. 131 FRANKLIN STREET, BOSTON.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECOR ATIONS

Churches, Halls, Private Residences.

ETC., ETC., ETC.



AND DESIGNS

MADE FOR

S Fresco Painting and Decorations

IN ALL VARIETIES.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building IBON AND WIRE RAILING,

IRON CRESTINGS. IRON STABLE FIXTURES,

FOUNTAINS,

GARDEN STATUARY,

WEATHER VANES.

VARES.

BUILDERS' HARDWARE.

Estimates given on all kinds of Send Stamp for Catalogue.

BIER & COMPANY,

118 MILK STREET, BOSTON

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.

DISCOURSES ON ARCHITECTURE. By VIOLLET-LE-DUC. Translated, with an Introductory Essay, by HENRY VAN BEUNT, Fellow American Institute of Architects. Fully Blustrated. 1 vol. royal 8vo., 88.00

We have no hesitation in saying deliberately, and without salification, that no work of any thing like equal value to merican architects has ever been published in this country, none from the study of which they and all lovers of art ay derive so many, so durable, and so important lessons ir the elevation and perfection of their art. "Those who are engaged in the study of architecture as mateurs, and those who are practising it as a profession, or he are preparing to do so, will gather an intelligent idea the scope of this suggestive and instructive work from a mopels of the subjects treated upon in the ten diollours.

JAMES R. OSGOOD & CO., BOSTON

Franklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural

Mailed free to any address.

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,





Vol. I. No. 14.7

BOSTON, SATURDAY, APRIL 1, 1876.

PRICE 15 CENTS.

PROPOSALS.

FOR WROUGHT AND J. B. & J. M. CORNELL.

PROPOSALS FOR WROUGHT AND CAST IRON WORK.
U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND., OFFICE OF SUPERINTENDENT, March 25, 1876.
Sealed proposals will be received at this office until twelve, M., of the seventeenth day of April, 1876, for furnishing, elelivering, Itting, and putting in place, the Wrought and Cast Iron Work, comprising Rolled from Beams, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule.

Opteon of the described in the schedule of proposals, and any graph of the schedule.

J. H. MONEELY, Superintendent.

J. H. MONEELY, Superintendent.

PROPOSALS FOR BRICK AND STONE

PROPOSALS FOR BRIUK AND BRUNE.

WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND.,
OFFICE OF SUPREINTENDENT, April 1, 1876.

Sealed proposals will be received at this office until
twelve, M., of the twenty-fourth day of April, 1876, for all
the brick work and stone work required to complete the
United States Court-House and Fost-Office, Evansville,
Ind., in accordance with the planes and specification.

Copies of the drawings, ap. effication, and any additional
information, may be had on application at this office.

J. H. Moneelly, Superintendent.

JAIL. — Plans and specifications for a jail to be built at Troy. Mo. are called for, the same to be submitted to the Court in Troy on the 10th of April, 1876. The general plan of said jail to be two stories in height, of brick, with four medium-sized cells in the second story, and two offices in the lower story, one room for insane, and also two rooms for jailer's residence, and the total cost thereof not to exceed \$10,000; the Court to select the plan, and submit the building of said jail in accordance with said plan to competition. mpetition.
WM. A. WOODSON, Clerk of the County Court.

SCHOOL-HOUSE. — Sealed proposals will be received by the undersigned at the office of the Township Clerk, until twelve o'clock, noon, of April 17, 1876, for the construction of a brick school-house in Sub-District No. 1.

JAMES A. BLACK, GEORGE LONG, OSEO OSBOBORS, Committee on Buildings.

Bedford, N.Y., March 13, 1876.

SCHOOL-HOUSE. — Sealed proposals will be received at the office of the Clerk of the Board of Education of Northampton Township, Summit County, O., until welve o'clock at noon, on the seventeenth day of April, 1876, for building a school-house on the lot situated in Sub-District No. 1, according to the plans and specifications on file in said office.

By order of the Board of Education.

H. A. PACKARD, Clerk.

COUNTY POORHOUSE.—Sealed propos-als will be received until Tuesday, the fourth day of April, at twelve o'clock, noon, for the building of an addi-tional Ward to the County Poorhouse building, according to plans and specifications to be seen at the office of the County Auditor, Marion, Io. By order of the supervisors. JOSEPH WHITNEY, Chairman.

JOSEPH WHITEEY, Chairman.

JOSEPH WHITEEY.

JOSEPH WHITEEY, Chairman.

JOSE bridge, together with strain shoets, giving weight of bridge with maximum strains under the apecified load, and the cross-section of each principal part in square inches. Bids to be made per lineal foot for extreme length of super-structure. Propossis not in accordance with this advertisement will not be considered; and the right is reserved to great and the right is reserved to great and the right is reserved to the right of super-structure. Proposis not in accordance with this advertisement will not be considered; and the right is reserved to great and the right is reserved to the right

BUILDERS' SUPPLIES.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Wainut Street, Boston. New York. Philadelphia.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE REST IN URL.
S. W. FULLER,
63 Devonshire Street, Boaton.

GRANITE COMPANY
GRANITE BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAYING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarries: BAY VIEW, GLOUCESTER, MASS.
JOHAS H. FRENCH, Press.
SCOTT WEBBER, Supt.

FULLER, DANA, & FITZ, I DESCRIPTION OF STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The UNION
IRON MILLS' Solid WROUGHT IRON BRANS, and THE
"BURDEN BRAY" IRON, Tensile Strength 78,000 lbs.

GAS FIXTURES

OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

M. W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES, 117 AND 119 COURT STREET, BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches.

HENRY B. JONES & CO.

IN B. JUNES & CU.
Importers, Jobbers, and Retailers of
PAPER HANGINGS,
612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St.,
Boston, GAS FITTERS. Gilt, Bronze, and Glass
Chandellers; Gas Pipe, and Pitting in all its Branches.
Architects, Contractors, and Builders furnished with the lowest estimates.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

BUILDERS' SUPPLIES.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE,

a woven, and able to withstand immense The most practical Hose for use in FACTORIES, MILLS, AND HOTELS. All Buildings with Stand-Pipes should have it.

—Send for Circulars.

—ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE.

OHIO STOWE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.

Sole Agent for BERLIN STONE, And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipos and Fittings. No. 69 Kilby St., Boston.

BUY A SPRINGFIELD GAS MACHINE, St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

WEATHER VANES, LIGHTNING Rods, Crestings, Finials, &c. HARRIS & CO., 111 Kingston Street, Boston.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS-

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Skreet Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimae Street, Boston.

MONS. C. J. SOYARD, formerly 12 West MONS. U. Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION.

2 "A" BRACON STREET, MEAR TREMONT, BOSTON.

ARCHITECTS.

OFFICE OF FRANK W. WESTON,

CHARLES D. WOODBERRY, Architect, office 19 Broad, corner Central Street, Boston.

TOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 20 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 93
Water Street, Boston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDEB AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS. Beaton, and Concord and Mauchester, N.H. Churches and Public Buildings a specialty. Estimates given.

EDWARD HIXON & CO.,

IMPORTARS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUPACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon

Fred. Reed,

E. Hixon, jun.

W. J. McPHERSON & CO.

Reclesiastical. Memorial, and Domestic

440 TREMONT STREET, BOSTON, MASS.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of best, hich insures always a proper condition of the air as to arriv, temperature, and relative humidity; perfect circulation and distribution, combined with ready means for adsiment to the varying demands upon the apparatus, spendent upon the state of the weather, and the number people to be supplied with air. It can be employed as is instrument of ventilation alone, or warming alone, or the relative, wholly or partly, and admits of application apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the accurity of heaith, and stake my reputation as a sanitary expert that all my work shall be thoroughly done, as well as honestly done. I employ only hithful and skilful mechanics, and rely for success not so much upon methods involving the use of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles of common knowledge.

Among those who have employed me are Alex. S. Porter, R. B. Forbes, Mrs. Bavid Osgood, American Insurance Co., Francis Pesbody, A. T. Byrnes. Alexander H. Rice, Win. Amory, Jun., Samuel H. Russell, S. E. Sewail, A. T. Perkins; A. P. Baker, M.D., Newport; B. Schlesinger, New York.

Frederic Tudor,

5 Pemberton Square, Boston.
From 10 till 1.

E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS.

1131 TREMONT ST., Boston.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.

With the approach of

The Building Season,

Lumber Dealers

STAINED GLASS WORKS, American Architect & Building News.

131 Franklin St., Boston.

The Best Advertising Medium

Contractors.

Builders,

Decorators,

Dealers in Building Materials

OF EVERT DESCRIPTION.

The American Architect

Building News.

131 Franklin St., Boston.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

mside work.

These colors will change less upon exposure, and prove more durable, than pure White Lead Paints colored in the ordinary way.

Warranted more Economical,

More Durable and Reliable,

Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET,

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Palm & Co.'s Transfer Ornaments, California Pumice Stone, Beno's French Umber, and Atlantic Lead.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Maudacturers.

The Course is Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARR, Esq., Professor of Architecture, or Dr. Samuel Esereland, Secretary.

Boston, Feb. 1, 1876.

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book Architecture.

THIRD YEAR. 1876. 1876. PRICE 86 PER YEAR, OR \$5 IF PAID IN ADVANCE. JAMES R. OSGOOD & CO., Publishers, Boston.

ESTABLISHED 1888

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

VENEERS.

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, WHITE HOLLY, MAHOGANY. THUYA, ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

CAR BUILDERS, CAMINET, PIANO, AND BILLIARD TABLE MANUFACTURERS. Office, 10 Travers St., Boston.

Parlor Grates.

FOR HEALTH AND COMFORT.



H. M. CREAMER.

86 North St., Boston.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books pplied at publishers' prices, A. J. BICKNELL & CO.,

BURDITT & WILLIAMS,

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



ROETH & MAY, FURNITURE AND DECORATION,

No. 8 Hotel Pelham, Tremont street, Boston.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry. 38 Washingon st; Pitkin Bros. 3 Charlestown st; Allen & Noble, 34 Hanover st; Bogman & Vinal, Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, Si Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. I. — Belcher Bros. 27 Weyboses st. New York City. — A. Hammacher & Co. 399 Bowery; J. J. Tillotton & Co. & Dey st; O. A. Nathusius, 29 Bowery; B. L. Sons, 64 Broadway; S. R. Krumm, 121 Essex street; J. Street, 1985 Grands & Co. & Boyder, 1985 Grands & W. E. Lindinger, 188 Grands st; C. A. Stock, 116 Wooster street.

Brooklya, (E. D.) N. Y.—Hernann Weber, 134 Grahamav. Albany. — Maurice E. Viele, 41 State st. Brocklya, (E. D.) N. Y.—Hernann Weber, 134 Grahamav. Albany. — Maurice E. Viele, 41 State st. Buffalo. — C. H. Utley, 82 Pearl st. Philadelphia. — Thomas Thompson, Sons, & Co. 240 S. 24; Noblit, Brown, Noblit, & Co. 222 S. 3d st; B. L. Middleton, 817 (2 st; B. L. Solomon & Sons, 31 N. 28 st; B. L. Burera, 435 E. Sauphin st; Thomas Knight & Co. cor. Xi ave, and Green st. PHISSON Exp.—Joseph Woodwell & Co., oor. Zi ave, and Woodsel. Philadelphia. — Thomas Thompson, Sons, & Co, 208. 2d; i. Nolli, Hrown, Noblit, & Co, 228. 2d st; B. L. Solomon & Sons, 31 N. 2d st; F. A. Bueren, 435 E. Jauphin et; Thomas Knight & Co, cor. Edige seve, and Green et. Pittsburg.—Joseph Woodwell & Co, cor. 2d ave, and Wood et. Baitimore. — C. Sidney Norris & Co, 26 Hanover st; John her & Sons, 24 South Charles st; Warfield & Bohr, 62 So. Sharp st. Clevetand, Ch.—George Worthington & Co, 90 Water st; Clevetand, Ch.—George Worthington & Co, 10 With a Co, 16 Fifth ave; J. Llebenstein & Co, 22 Randolph st; A. A. Ullrich Co, 16 Fifth ave; J. Llebenstein & Co, 82 N. doh st. Detroit.—Buhl, Ducharme, a. Co, 103 Woodbridge street. Bt. Louis.—Geo. A. Rubelmann & Gons, 410 Market street. Washington. — F. P. May & Co, 615 St. James V. Washington. — F. P. May & Co, 615 St. James V. Montreaul.—James Walker & Co, 163 St. James et. Montreaul.—James Walker & Co, 163 St. James et. Brandton, Chat.—Wasson & Thompson, 10 McNab et. 637 Our goods can be purchased of the above Agents 2t the

Hamilton, Ont. — Watson & Thompson, 16 McNab et. 37 Our goods can be purchased of the above Agents at the time prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.

The Art Furnishing Company,

170 TREMONT STREET, BOSTON.

Designers and Importers of

PLAIN, ENCAUSTIC, AND ART

TILES.

Also Tiles

FOR FURNITURE, DECORATION.

AND BATHROOM LININGS. STRADE MARE 2



Contractors for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of

PIRE-PLACE LININGS, HEARTHS, AND HALL, VES
TIBULE, AND BANK

FLOORS.

Manufacturers of Fine Furniture, and Importers of rare old

No. 170 TREMONT ST., BOSTON.



MANUFACTURERS

Furniture

American Architect & Building News

Interior Decoration.

ARTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

156 TREMONT STREET.

BOSTON.

CHARLES WOODBERRY & SON.

MASONS, CONTRACTORS AND JOBBERS.

aperintendents of Construction and Building Constru Architectural Plans, Detail Drawings and Specification: Insurance Adjusters between Insurance Companies ers or Occupants, in case of Fire or Damage; Estimaten for all Trades in Building, &c.

ENGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Arist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's childings and the standarding the Callenge, "Offilingham Red Glen," Bligh Life, "Low Life," Laying Down the Law, "8hoeing the Bay Mare," and others of equal beauty. Quarta. Price, 416.08. be Bay Mare," and others oc., \$16.06.

JAMES R. OSGOOD & CO., Boston.



O. H. PERRY,



METAL WORKER,

Escutcheons, Locks, Hinges, Andirone, Fenders, Knockers, &c., MADE TO ORDER,
Franklin, corner Centre Street,
NEW YORK.

m 16.

A RT FOLIAGE. By J. K. COLLING. 1 vol.

Quarto. 72 plates. \$15.90.

. For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSKIGOD & CO., Bostos.

OF THE

AMERICAN ARCHITECT AND BUILDING NEWS

MESSRS. JAMES R. OSGOOD & Co. will begin on the 1st of January, 1876, the issue of an architectural journal, which will be called The American Architect and Building News. It will be published weekly, in a style uniform with that of the well-known English architectural papers, and is meant to cover, in America, substantially the same ground that they do in England. Each number will contain from eight to sixteen pages of letter-press, and at least four pages of plates executed by the Heliotype process, and printed from stone. The journal is not intended to be local or sectional, but

as general in its professional range as it is practicable to make it; and it is hoped that the architectural interests of all parts of the country will be fairly represented in it. To this end the co-operation of architects in all our cities has been secured, both in furnishing it with designs for illustration, and in sending it information and correspondence or essays on such professional subjects as are suited for journal circulation. It will contain editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. While it is intended that its matter shall be mainly original, it will give its readers the advantage of occasional selections from the more valuable foreign architectural journals, especially from those which are not commonly accessible. It will aim at keeping a current record of the matters of most interest in engineering, and in various departments of fine art, so far as may be without too great discursiveness. In addition to the full-page plates, illustrations will be added in the text when desirable. The journal will contain as complete and trustworthy a

and architects, engineers, artists, builders, and mechanics are invited to send notes of structures and works of art, exe cuted or projected, of designs for public improvements, of new inventions auxiliary to building, of difficulties or devices in construction, also of competitions, tenders for work, prices current, questions of practice or law,—in short, of what-ever subjects are found interesting to those to whom such a periodical will naturally appeal.

THE AMERICAN ARCHITECT AND BUILDING NEWS has been adopted by the American Institute of Architects, as its official organ, as shown by the following Resolution adopted at the Annual Convention of that body, held in Baltimore in November, 1875:

"Resolved, That the Journal of Architecture to be published by Messrs. James R. Osgood & Co., under the name of the 'American Architect and Building News,' be accepted by the American Institute of Architects as their organ of publication for the proceedings of their conventions and such other matter as they may think it expedient to make public; and that the Committee on Publications be directed to co-operate with the editor to that end."

THE AMERICAN ARCHITECT AND BUILDING NEWS will be published on Saturday of each week. The subscription price will be seven dollars and fifty cents per year; single numbers, fifteen cents each. Subscribers who pay a year in advance will be supplied at six dollars per year. Postage paid by the publishers

Address all communications to the publishers,

JAMES R. OSGOOD & CO.,

131 Franklin Street, Boston.

SPECIAL NOTICE.

THE AMERICAN ARCHITECT AND BUILDING NEWS will be for sale by all respectable booksellers and newsdealers. The public is requested to PAY NO MONEY TO CANVASSING AGENTS, but to send subscriptions directly to the publishers by bankdraft or post-office order, or to order the journal through any respectable bookseller or newsdealer, who will receive subscriptions at the publishers' rates, and supply the weekly issues promptly, postage paid.

DECUR ATIONS

Churches, Halls.

Private Residences.

ETC., ETC., ETC



AND DESIGNS

MADE FOR

Fresco Painting

and Decorations

WROUGHT AND CAST IRON For Building

> IRON AND WIRE BAILING. IRON CRESTINGS. IRON STABLE FIXTURES,

FOUNTAINS.

GARDEN STATUARY.

WEATHER VANES.

BUILDERS' HARDWARE. Estimates given on all kinds of ron Work.

Send Stamp for Catalogue

BUBIER & COMPANY, 116 MILE STREET, BOSTON

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.,

Boston Ornamental Iron Works DISCOURSES ON ARCHITECTURE.
By VIOLER-LE-DEG. Translated, with an Introduced Lory Essay, by Henry Van Brunt, Fellow American Intuits of Architects. Fally Illustrated. 1 vol. royal 8vo., \$\frac{1}{2}\$

"We have no hesitation in saying deliberately, ualification, that no work of any thing like eq

"We have no hesitation in saying deliberately, a lalification, that no work of any thing like equi-merican architectabas ever been published in the none from the study of which they and all lo ay derive so many, so durable, and so import the elevation and perfection of their art. "Those who are engaged in the study of arch nateurs, and those who are practising it as a pre-ho are preparing to do so, will gather an intel-the scope of this suggestive and instructive we nopsis of the subjects treated upon in the ten-nich compose this stately volume. They are a What is Barbariam? What is Art? What a slons of Art to Civilization? What are the 8 tlons most favorable to the Development of imitive Methods of Construction as practised relitecture. 3. Comparison between the Al

*, * For sale by Booksellers. Sent postpaid, on receipt o price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON

Franklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural

Mailed free to any address.

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK.







Vol. I. No. 15.]

BOSTON, SATURDAY, APRIL 8, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

ROOFS.

THE ATTENTION OF ARCHITECTS AND BUILDERS

is asked to the merits of

GLINE'S RUBBER ROOFING.

IT IS VERY ELASTIC.

NO TAR NOR GRAVEL

18 CLEAN TO HANDLE,

PLIABLE IN COLD WEATHER.

FIRM AND ODORLESS IN HOT WEATHER, CAN BE SAFELY USED WHERE WATER IS COL LECTED IN TANKS AND CISTERNS.

CORRESPONDENCE INVITED.

NEW YORK SLATE ROOFING CO., LIMITED, 8 CEDAR STREET, NEW YORK.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor."— Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

nless woven, and abl: to withstand immense
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS. All Buildings with Stand-Pipes should have it.

—Send for Circul rs.

—Sends of Circul rs.

BOBERT GEMS, Tress.—Salesrom, 339 Washington St.,

BOS FON, Mass.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STORE, FROM BERLIN, AMBERST, AND BEREA QUARRIES.

Sole Agent for BERLIN STONE, And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Wainut Street, Philadelphia.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.

S. W. FULLER,

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fir and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent 1-ss. Fire-proof partition.

proof partitions, floor arches between iron beams, sunder wooden or iron beams, in the following

ceimings under wooden or iron beams, in the following buildings:

Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Willimsb fo Sawings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baltimore Sar. Deporit, Insurance on Wooden Manards r. duced ninety cents per Silo. Sidewalks laid at Lenox Library, Tribune, Peabody Museum. Silo. Sidewalks laid at Lenox Library, Tribune, Peabody Museum. Silo. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Froework is the only one approved by the Sew York Board of Fire Underwriters, and the Superintedent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

CAPE ANN GRANITE COMPANY

GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarries: BAY VIEW, GLOUCESTER, MASS.
JONAS H. FRENCH, Pres.
R. H. H. BERNETT, Treas.
SCOTT WEBBER, Supt.

FULLER, DANA, & FITZ,

TO THE STREET BOSTON.

METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.

Exclusive Boston Agents for the sale of THE UMON
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS. AND KEROSENE FIXTURES,
III AND 119 COLERT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

BEEHIVE BRAND FELT ROOFING for Flat Roofi. Only Manufacturers, NEW ENGLAND FELT BOOFING COMPANY, 17 Central Street, Boston.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16

WINDOW VENTILATORS. — WHITE'S
PATENT supplies pure air, without dust or coal
draughts. Easily adjusted to large or small rooms. Should
be examined by Architects and Builders. W. H. KIMBALL, Agent, 120 Tremont Street, Boston.

GEO. F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

GALVANIZED IRON CORNICES, CHAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 351 Harrison Avenue, Boston.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND YENTILATING APPARATUS, Os. (9) Killy St., Boston. Wrought fron Pipes and Fittings. No. (9) Killy St., Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURERS of these goods in New England. No. 11 Marshall Street, Boston.

BUILDERS' SUPPLIES.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bo-BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT &

BUY A SPRINGFIELD GAS MACHINE. and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

WEATHER VANES, LIGHTNING Rods, Crestings, Finials, &c., HARRIS & CO., 111 Kingston Street, Boston.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMOST STREET, BOSTON, MASS.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 School Street, Boston.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Bos

WARNER BAILEY, Sign and Ornamental

ARCHITECTS.

OFFICES OF FRANK W. WESTON, 17 Pemberton Sq. Boston.)
ABOUTECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect, Office 19 Broad, corner Central Street, Boston.

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

S. IPSEN, Architect, 29 Pemberton
Square, Boston.

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98 Water Street, Boston.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NEAR TREMONT, BOSTON.

S. P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Henta MORTGAGES. SEGOTIATED. NO. 11 BROWFIELD STREET, BOSTON.

PROPOSALS.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competi-plans for new buildings will do well to address Archite through the advertising columns of the "AMERICAN AND THUT AND BUILDING NEWS."

PROPOSALS FOR WROUGHT AND

PROPOSALS FUR WHOUSELE, IND., CASTIRON WORK.
U.S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND., OFFICE, OF SUPERINKEDENT, MARCH 25, 1876.
Sealed proposals will be received at this office until twelve, E., of the seventeenth day of April, 1976, for furnishing, delivering, fitting, and patting in place, the Wrought and Cast Iron Work, comprising Rolled Iron Beams, &c., in first and second floors, and Cast-Iron Columns, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule. Copies of the drawings, aspecification, schedule, and form of proposals, and any additional information, may be had on application at this office.

J. H. MONEELY, Superintendent.

PROPOSALS FOR BRICK AND STONE

WORK.

U.S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND.,

OFFICE OF SUPERINVENDENT, April 1, 1876.

Sealed proposals will be received at this office until
twelve, M., of the twenty-fourth day of April, 1876, for all
the brick work and stone work required to complete the
United States Court-House and Post-Office, Evansville,
Ind., in accordance with the plans and specification.

Copies of the drawings, specification, and any additional
information, may be had on application at this office.

J. H. McNEELY, Superintendent.

CITY OF BOSTON.

SEWERS

Sealed proposale will be received at City Hall till 12, M., on WEDNESDAY, April 12, for building the following Sewers:

Boylston Street, 1,560 feet, 24 in. x 16 in., brick.

(270 ft., 24 in. x 18 in., brick.

(270 ft., 24 in. x 18 in., brick.

(270 ft., 24 in. x 18 in., brick.

(360 ft., 12 in., pipe.

(360 ft., pipe., pipe.,

Plans and Specifications at Sewer Office. The right reserved to reject any proposal. To be indorsed "Proposal for Sewers," and addressed to

CLINTON VILES

NOTICE TO CONTRACTORS, PROPO-BALS FOR FURNISHING THE CITY OF BOS-TON WITH GRANITE PAYING BLOCKS.
Scaled proposals will be received at the Office of the Su-perintendent of Streets, City Hall, Boston, until Friday, Boston with Granite Faving Blocks during the Carlot Boston with Granite Faving Blocks during the year 1876. The blocks to be equal in quality to the best Cape Ann or Quincy Granite, and of the following dimensions: Width, 3 1-2 to 4 inches; length, 6 to 8 inches; depth, 7 1-2 to 8 inches.

inches.

All the edges to be sharp and straight, forming right angles at their intersections both horizontally and vertically. The faces to be straight split, and free from bunches or depressions. Each and every block to be equal, both as regards quality and finish, to the sample on exhibition in the office of the Superintendent of Streets, and to be in every respect satisfactory to the Committee on raving and the Superintendent of Sireets.

tendent of Streets.

Proposals to state the price per thousand blocks delivered on such wharves in the City of Boston as may be designated from time to time by the Superintendent of Streets. Also the number of blocks which the proposer will deliver per month, from the first day of May to the first day of November.

month, from the mes any or ber.

A separate proposal will be received for blocks delivered when required on streets in Roxbury, Dorchester, and West

loxbury.

A sample of the blocks must accompany the proposal. The right is reserved to reject any or all proposals. The uccessful bidder will be required to furnish bonds with ureties satisfactory to the Committee on Paving for the althful performance of the contract. Proposals to be increased. "Proposals for Paving-Blocks," and addressed to the Chairman Committrie on Paving-Blocks."

CHAIRMAN COMMITTEE ON PAVING.

NOTICE TO CONTRACTORS. PROPOPOSALS FOR FUENISHING THE CITY OF BOSSEAST THE GRANITE EDGESTONES.
Seast I posal-will granite to the superintendent of Streets until Fride, April 14, 1876, twelve of clock, Mr, for supplying the City of Boston with Granite Edgestones during the year 1876. The stones to be seven inches in width on top, not less than six feet in length, and of uniform depth not less than twenty inches; to be straight lined, without wind, and free from bunches or depressions. To be peem-hammered on top, and three inches on back; the top edges and surface to be true to line and straight edge. The front to be pointed, and the ends square and jointed the entire depth of the stone. Each and every stone to be equal, both as regards quality and finish, to the samples on exhibition in the office of the Superintendent of Streets.

Proposals to state the price per lineal test, delivared in such streets in the city proper, South Boston, East Boston, Roxbury, Derchester, West Roxbury, Brighton and Charlestinendent of Streets.

Separate proposals will be received for stones delivered in each of the above sections.

ets. sals will be received for stones delivered in

intendent or small state of the control of the above sections. The successful bidder will be required to give bonds with sureties satisfactory to the Committee on Paving for the satisfactory for the committee on Paving for the satisfactory for the control. The right is reserved to reject any or all proposals. Proposals to be indorsed "Proposals for Edgestones," and addressed to the CHAIRMAN COMMITTEE ON PAVING.

JAIL. - Plans and specifications for a jail to DALL.—I'lans and specifications for a jail to be built at Troy, Mo. are called for, the same to be submitted to the Court in Troy on the 19th of April, 1876. The general plan of said jail to be two stories in height, of brick, with four medium-sized cells in the second story, and two offices in the lower story, one room for inane, and also two rooms for jailer's residence, and the total cost thereof not to exceed \$10,000; the Court to select the plan, and submit the building of said jail in accordance with said plan to competition.

WM. A. WOODSON, Clerk of the County Court.

·PROPOSALS.

NEW YORK BOARD OF EDUCATION. New YORK, BOARD OF EDUCATION.—
Sealed proposals will be received by the Committee on Colored Schools, at the Hall of the Board of Education, corner of Grand and Elim Streets, until MONDAY, the seventienth day of April next, and until 4 o'clock F.M. on said day, for the erection of an outside iron stairway at Colored Grammar School No. 2, on South Fifth Avenue, near Broome Street.

Seal and specifications may be seen at the office of the Color of the Color

third floor.

Two responsible and approved sureties, residents of this
City, will be required from the successful bidder. Proposals
will not be considered unless sureties are named.

The Committee reserves the right to reject any or all of

the proposals submitted
ALBERT KLAMBOTH, WILLIAM DOWD, HENRY P.
WEST, DAVID WETMORE, ERNEST CAYLUS, Committee on Colored Schools.
Dated New York, March 30, 1876.

MASONRY AND IRON WORK.—Proposals will be received by the Board of Commissioners of Monroe County, Ind., at the Auditor's office, until one oclock, Wednesday, April S., 1876, for the building of stone oclock and the court house square. Plans and specifications can be seen at the Auditor's office.—Cash bayments.

JAMES F. MANLEY, Auditor Monroe County, Ind.

IRON WORK. — Proposals will be received by the undersigned at Morrison, up to 12 o'clock, M., on Thursday, the 20th day of April, 1876, f.r. the construction of 14 fron cells in the Whiteside County (Illinois) Jail, including fron floors, platforms, corridor, gratings, doors, and locks and o'ther faxtures, in accordance with plans and specifications now on file in the County Clerk's office. By order of special committee.

E. W. PAYNE. County Committee.

E. W. PAYNE, County Committee.

SCHOOL-HOUSE. — Sealed proposals will be received by the undersigned at the office of the Township Clerk, until twelve o'clock, noon, of April 17. 1876, for the construction of a brick school-house in Sub-District No. 1. JAMES A. BLACK, GEORGE LONG, OSEO OSBORN, Committee on Buildings.

Bedford, Ohlo, March 13, 1876.

SCHOOL-HOUSE. — Sealed proposals will be received at the office of the Clerk of the Board of Education of Northampton Township, Summit County, O, until twieve o'clock at noon, on the seventeenth day of April, 1876, for building a school-house on the lot situated in Sub-District No. 1, according to the plans and specifications on file in said office.

By order of the Board of Education.

H. A. PACKARD, Clerk.

IRON TRUSS BRIDGE. — Sealed proposals will be received by the Commissioners of Cass County, Ind., at their office in Logansport, Ind., until welve o'clock, noon, on the twentieth day of April, 1876, for the erection of a Wrought-Iron Truss Bridge over Ele River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span 110 feet and one span 112 feet extreme lengths, with one roadway 20 feet clear width, and two footways 6 feet clear width, and two footways, and -inch pine floors on footways, with all oak joists. The bridge to have iron footways, exclusive of bridge weight. No from to be secured on floor beams. Capacity of bridge to be 100 lbs. per square foot of roadway, and 60 lbs. per square inch footways, exclusive of bridge weight. No from to be strained over 13,000 lbs. per square inch in tension, 3,000 lbs. per square inch in Gordon's formula for compression strains. Builders must furnish full plans and detailed specifications, giving forms and dimensions of girlers, size of each part of the bridge, together with strain sheets, giving weight of bridge with maximum strains under the specificu load, and the cross-section of each principal part in square inches. Bidg with maximum strains under the specificu load, and the cross-section of each principal part in square inches. Bidg with maximum strains under the appecificu load, and the cross-section of each principal part in square inches. Bidg with maximum strains under the appecificu load, and the reject any and all bids. IRON TRUSS BRIDGE. — Sealed proposals

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 486 & 490 HARRISON AVENUE, BOSTOK.

MEAD, MASON, & CO., BUILDERS,
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

THE COURSE IN ACMITENTURE embraces, besides the neTHE COURSE IN ACMITENTURE embraces, besides the necentral history, and the constant practice of original
design.

esign.
Special students in Architecture are received into a two-cars' special course.
For particulars address WILLIAM R. WARE, Esq., Pro-sessor of Architecture, or Dr. SAMUEL KNEELAND, Secretary BOSTON, Feb. 1, 1876.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

hese colors will change less upon exposure, and prove re durable, than pure White Lead Paints colored in the lnary way.

Warranted more Economical,

More Durable and Reliable, Than any Paints ever before offered.

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

34 INDIA STREET.

BOSTON.

Agenta for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses.

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon, jun. Fred. Reed,

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of heat, which insures always a proper condition of the air as to purity, temperature, and relative humidity; perfect circulation and distribution, combined with ready means for adjustment to the varying demand apon, the apparatus dependent upon the state the weather, and the number of people to be subjected the size. It can be employed as the instrument of ventilation alone, or warming alone, or both together, wholly or parity, and admits of application to apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the security of heaith, and stake my reputation as a sanitary expert that all my work shall be thoroughly done, as well as honestly done. I employ only faithful and skilful mechanics, and rely for success not so much upon methods involving she use or success not so much upon methods involving she use or success not so for the success of common knowledge.

Among those who have employed me are Alex. S. Porter, C. B. Forbes, Mrs. David Osgood, American Insurance Co., Francis Peabody, A. T. Byrnes, Alexander H. Rice, Wm. Amory, Jun., Samuel H. Russell, S. E. Sewall, A. T. Perkins; A. P. Baker, M.D., Newport; B. Schlesinger, New York.

Frederic Tudor,

Sanitary Engineer.

5 Pemberton Square, Bosto From 10 till 1.

Parlor Grates.

FOR HEALTH AND COMFORT.



Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England. Also, Creamer's Convox Side-Wall Registers prevent walls being discolored by furnace-heat. Floor Registers, on the lever movement, prevent dirt and sweepings ever clogding them. Celling Ventilators for gas or snoke pipe, and to carry surplus heat to the room above, and can be worked from either side.

H. M. CREAMER.

86 North St., Boston.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Bo ied at publishers' prices,

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK. BURDITT & WILLIAMS.

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

Salesrooms, 27 Sudbury, and 69 & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

ART FOLIAGE. By J. K. COLLING. 1 vol. A quarto. 72 plates. \$15.00.

- For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS.

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS

Boston.—Parsons & Torry, 656 Washingon st.; Pitkin Bi.
Charlestown st.; Allen & Noble, 94 Hanover st.; Bogman & Vibock st.; Farless & Boynton, 13 Cornhill; Gardner & Chand
21 Washington st.; B. L. Solomon & Sons, 49 Franklin street.
Providence, B. L. Belicher Bro., 27 Weybosset st.
Lew York City.—A. Hammacher & Co., 299 Bower,
Lillotton & Co., Dey at. Hammacher & Co., 299 Bowery; B.
J. Tillotton & Co., Dey at. (6. A. Nathaulus, 292 Bowery; B.
has, E. Kugler, 10 Division st.; Speyer Bros., 10 Bowery; W.
whinser. 186 Grand st.; C. A. Stock, 116 Wooster street. Dock sq ; Farless & Boynton, 18 321 Washington st; B. L. Solom Providence, R. I. - Belc I ew York City. - A. J. Tillottson & Co. 8 Dey st; O olomon & Sons, 639 Broadway; has. E. Kugler, 10 Division st.; lubinger, 188 Grand st; C. A. St

has. E. Kugier, 10 Division of. thibinger, 188 Grand of; C. A. S.

Brooklyn, (E. D.) N. Y.

Albany. — Maurice E. Vie Rochester. — Pollock, W. Buffalo. — C. H. Utley, & Philadelphia. — Thoma; Noblit, & Co.

Cleveland, O. — George Worthington & Co, 90 Water st; Wn. Bingham & Co, 148 Vater st. Cincinnati. — Glaescher & Kuhlman, 534 Main st; J. L. Wayne & Son, 154 Main & Son, 74 Randolph st; A. A. Ulbrich & Co, 16 Fifth ave; J. Liebenstein & Co, 22 Randolph st. Detroit. — Bulh, Ducharme, & Co, 108 Woodbridge street. St. Louis. — Geo. A. Rubelmann & Co, 837 N. 6th st. Washington. — F. P. May & Co, 64 Fennsylvania avenue. San Francisco. — B. L. Solomon & Sons, 410 Market street. Montreal. — James Walker & Co, 160 St. James Montreal. — James Walker & Co, 160 St. James Grandon, Ont. — Watson & Thompson, 16 McNab st. ggr-Our goods can be purchased of the above Agents at the same prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

Sent postpaid, on receipt of West Camden Street (Opposite Chickering Station),

BOSTON, MASS.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS.



Contractor for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
PIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.



E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS.

1131 TREMONT ST., Boston.

Architects desiring information connected with our art,

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET.

BOSTON. CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

perintendents of Construction and Building Constru-trehitectural Plans, Detail Drawings and Specification. Insurance Adjusters between Insurance Companiers or Occupants, in case of Fire or Damage; Estimate for all Trades in Building, &c.

O. H. PERRY,



METAL WORKER,

Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c.,

MADE TO ORDER,

Franklin, corner Centre Street. New York.

MANTLES

ROETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

ESTABLISHED 1888.

Palmer, Parker, & Co.

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, ROSEWOOD, etc., THUYA, WHITE HOLLY, MAHOGANY.

In Logs, Planks, Boards, and Vencers. Bowels all Sizes

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

THE

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

1876. FOURTH YEAR. 1876.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book Architecture.

THIRD YEAR. 1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

HOPPIN'S SKETCHES.

UPS AND DOWNS ON LAND AND WATER Oblong folio. \$10.00.
"Turning over these pages is like gathering around a fireside to listen to the bright and entertaining stories of a friend
who has travelled and kept his eyes well open. Only Mr.
Hoppin's pencil is more eloquent and witty than most men's
tongues." — Boston Journal.

CROSSING THE ATLANTIC. Oblong

Folio. \$5.00.

This volume depicts, in the most charming manner, the ed aspects of ship-board life, the amusements of the engers, their adventures, trisis, and absurd performes; and even sea-sickness has a ludicrous side presented, almost robe it of its terrors; while not the least amusing are of the book is the fictitious list of passengers. Both we who travel and those who travel home can be assured hearty laugh over the genial pages of this book."— Col-Courant.

AY FEVER. Illustrated by twenty-four

drawings. Oblong fello. \$3.00. they are full of spiris, and depict with much humor the laws of a sufferer from the trying complaint which gives ame to the work. The drawings are gracefully cond and capitally executed, and are full of effect. We laughed hearilly at the adventures of the unhappy m, and advise our readers to follow our example. —

, For sale by all Booksellers. Sent postpaid, on receipt of price, by the Publishers, JAMES B. OSGOOD & CO., BOSTON.

CHOICE HELIOTYPE BOOKS. VIOLLET-LE-DUC'S WORKS.

PLAKE'S BOOK OF JOB, Illustrations of the Book of Job. By William Blake. Reproduced by the Heliotype Process from the "Gray Collection of Engravings." Twenty-two Plastes. With Biographical Sketch of William Blake, and Descriptions of the Engravings, by Charles Eliot Norton. Quarto. Price, \$10.60.

The unique character of these designs, and the very interesting contribution of Mr. Norton, give special value to this volume.

GALLERY OF GREAT COMPOSERS.

A Series of Portraits Engraved on Steel, from Oil
Paintings by Prof. CARL JAGRE. Finely reproduced by the
Heliotype Process. With Biographical and Critical Notices
by EDWARD F. BIMBAULT, LL.D., member of the Royal
Academy of Music in Stockholm. Quarto. Price, \$10 00.

This fine gallery includes Portraits and Skotehes of Bach,
Handel, Glück, Haydn, Mozart, Beethoven, Schubert, Von
Weber, Mendelssohn, Schumann, Meyerbeer, and Wagner.

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correspond, Corlett, Reymolds, Garder, Lawrence, Murillot, Gerran, Rapharla, and other celebrated pathers, "forming a series of charming pictures of children and child-life." Quarto. Price, \$10.06.

, For sale by all Booksellers. Sent postpaid, on receipt of price by the publishers,

JAMES R. OSGOOD & CO., BOSTON.

ANNALS OF A FORTRESS. BY VIOL-LET-LE-DUC. Translated by BENJAMIN BUGERALL, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

"The different styles of fortification are described minutely, and with the precision of a military treatise; and the descriptions of the battles and sieges are well as an application of the battles and sieges are well as an application of the battles and sieges are well as an application of the kind in Alison. Numerous charts, plans, plans, plans, and pictures—some of them colored and exquisitely engraved—illust ate the text; and the book, as a whole, is a copt of panorama of the successive phases of the art of war—doubtless the best thing of the kind ever written, and scarcely less interesting to Americans than to Frenchmen."—Appletons' Journal.

"A very interesting and instructive work on the science of fortification, and adapted to the comprehension of unprofessional people. It is, in fact, a history of the development and progress of military defences from the rudest kind to the vast works now required to withstand the terrible engines of modern war."—Boston Advertiser.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by GRORGE M. TOWLE. 1 vol. 8vo. beveled boards, red edges, \$5.00.

, For sale by all Booksellers. Sent postpaid, or of price by the Publishers,

JAMES R. OSGOOD & CO. BOSTON

DECOR ATIONS

Churches, Halls,

Private Residences.

ETC., ETC., ETC.



LIBERAL ESTIMATES

AND DESIGNS

MADE FOR

9 Fresco Painting

and Decorations

IN ALL VARIETIES.

WROUGHT AND CAST IRON

Por Building IRON AND WIRE RAILING.

IRON CRESTINGS IRON STABLE FIXTURES. FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES.

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue.

UBIER & COMPANY, 118 MILK STREET, BOSTON.

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.
1299 Washington St., Boston,

Boston Ornamental Iron Works

| Discourses on Architecture — By Violist-Li-duc. Translated, with an Introductory Essay, by Henry Van Burry Fellow American Institute of Architecta. Fully Illustrated. 1 vol. royal Svo., 88.00

tory Essay. by Hizman Van Berger. Fellow American Institute of Architecta. Fally illustrated. I vol. royal 8vo., 48.00.

"We have no hesitation in saying deliberately, and without qualification, that no work of any thing like equal value to American architects has ever been published in this country,—none from the study of which they and all lovers of art may derive so many, so durable, and so important lessons for the elevation and perfection of their art.

"Those who are engaged in the study of architecture as amateurs, and those who are practising it as a profession, or who are preparing to do so, will gather an intelligent lides of the scope of this suggestive and not the control of the scope of this suggestive and not the control of the scope of this suggestive and not the control of the scope of this suggestive and not the control of the scope of this suggestive and not the control of the scope of this suggestive and not the control of the scope of this suggestive and not the control of the scope of this suggestive and not the scope of the scope of this suggestive and not the scope of construction as practised in Greek Architecture. 3. Comparison between the Architecture of the Romans. 4. The Architecture of the Romans. 5. The Methods to be followed in the Study of Architecture. The Basilicas of the Romans. The Domestic Architecture. Style and Composition. The Decline of Ancient Architecture. Style and Composition. The Decline of Ancient Architecture. Style and Composition. The Origin of Byzantine Architecture. The Architecture of the West sinc of the Decline of Architecture. Some of the Principles of Architecture. Style and Composition. The Decline of Architecture of the Nincteenth Century. Method. We may add that the work and capacially in Prance. 8. The Principles and Information necessary to Architecture. Some of the Principles and Information necessary to Architecture. Some of the Principles and In

Tulleries."—Curriesum and Properties. Sent postpaid, on receipt of of For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers, JAMES R. OSGOOD & CO., Bosros.

Franklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural Books

All Architectural and Scientific Books supplied at pub-shers' prices.

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK.





Vol. I. No. 16.7

BOSTON, SATURDAY, APRIL 15, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

ROOFS.

THE ATTENTION OF ARCHITECTS AND BUILDER

is asked to the merits of

GLINE'S RUBBER ROOFING.

IT IS VERY ELASTIC.

NO TAR NOR GRAVEL.

18 CLEAN TO HANDLE,

PLIABLE IN COLD WEATHER

FIRM AND ODORLESS IN HOT WEATHER, CAN BE SAFELY USED WHERE WATER IS COL

LECTED IN TANKS AND CISTERNS.

CORRESPONDENCE INVITED

NEW YORK SLATE ROOFING CO., LIMITED, 8 CEDAR STREET, NEW YORK.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PUBITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite all towns where heavy pressures are used; and the ease as certainty with which a joint can be made are great recommendations in its favor." — Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
BOBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK.

Quarryman, and Wholesale Dealer in

BUILDING STONE,

Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOE CANAAN MARBLE.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | Boston. | New York. | Philadelphis.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN USE.
S. W. FULLER,
G Devonshire Street, Boston.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., 547 Washington St., BOSTON.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, unlting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, cellings under wooden or iron beams, in the following buildings:—

WROUGHT-IRON BRIDGES AND ROOFS.

ceilings under wooden or fron beams, in the following buildings:—

Watern Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Hudson R. R. E. Fr'ght Depot, Westminster Hotel, Windsor Hotel, Westminster Hotel, Windsor Hotel, Syracase Savings Bank, Columbia College, West Point Military Hospital, Baltimore Safe Deposit, Insurance on Wooden Mansarder duced nincty cents per Side. Bidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Profework is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. RECHWEST Devices AND ROC Correspondence solicited.

Correspondence solicited.

Correspondence solicited.

MINTON'S TILES.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,
For Public Buildings and Dwillings.

As laid by us in THE CAPITOL AT WASHINGTON, and in numerous Churches, Banks, and Dweilings in control of the Courteles, Banks, and Dweilings in control of the Court

LEONARD F. BECKWITH, President.

Office, 111 Broadway, N.Y.

CAPE ANN GRANITE COMPANY

—Furnish—
GRANITE. BUILDING. AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING. 40 WATER ST., BOSTON.
Quarries: BAT VIEW, GLOUCESTER, MASS.
JONAS H. FRENCH, Pres.
SCOTT WEBBER, Supt.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON BRAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEBOSENE FIXTURES,
111 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

HENRY B. JONES & CO. Retailers of PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St.,
Boston, GAS FITTERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architecta, Contractors, and Builders furnished
with the lowest estimate.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

WINDOW VENTILATORS. - WHITE'S PATENT supplies pure air, without dust or coal draughts. Easily adjusted to large or small rooms. Should be examined by Architects and Builders. W. H. KIM-BALL, Agent, 120 Tremont Street, Boston.

GEO. F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUBEWAY AND FEIEND STREETS, BOSTOK.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Cans, &c. SMITH & VAN NOOLDEN, 387 Harrison Avenue, Boston.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lichting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURERS of these goods in New England. No. 11 Marshall Street, Boston.

BUILDERS' SUPPLIES.

WROUGHT-IRON BRIDGES AND ROOFS.

As a laid by us in

THE CAPITOL AT WASHINGTON,
And in numerous Churches, Banks, and Dwellings in every
part of the Country.
Glazed and Enamelled Tiles for Mantels, Hearths, Wainscoting, &c., and for Exterior Decoration.

MILLER & COATES,
20 Paul: Street Way York

279 PEARL STREET, NEW YORK.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Cours St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
So. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Bos

BOSTON.

WARNER BAILEY, Sign and Ornamental

PROPOSALS.

FOR OTHER BROPOSALS SEE SECOND PAGE

PROPOSALS FOR BRICK AND STONE

PROPUSALS FOR WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND.

OFFICE OF SUPERINTENDENT, April 1, 1878.

Sealed proposals will be received at this office until twelve, M., of the twenty-fourth day of April, 1876, for all the brick work and stone work requires to complete the United States Court-House and Post-Office, Evansville, Ind., in accordance with the plans and specification.

Copies of the drawings, specification, and any additional information, may be had on application at this office.

J. H. MONEELY, Superintendent.

PROPOSALS.

PROPOSALS CAST IRON WO

CAST IRON WORK.

U. S. COUET-HOUSE AND POST-OFFICE, EVANSVILLE, IND.,
OFFICE OF SCIFERINFENDENT, March 22, 1876.

Sealed proposals will be received at this office until
twelve, M., of the seventeenth day of April, 1876, for furnishing, delivering, fitting, and putting in place, the
Wrought and Cast Iron Work, comprising Rolled Iron
Beams, &c., in first and second floors, and Cast-Iron Colurns, &c., of first story; all as exhibited on the drawings,
described in the specification, and called for in the schedule.
Copies of the drawings, seccification, schedule, and form

J. II. McNEELY, Superintendent.

ROOFING. — Notice is hereby given that the State House Commissioners will receive proposals to furnish in place, complete, the metallic cornices, caps, as d cover.ng of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and

and the ornamentation of the Mansard roof, turrets, and dome.

Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation.

Each proposal must be accompanied by a good and sufficient bond, with two or more responsible suretics to the State of Illinois, in the penal sum of \$2.000, conditioned that the principal therein will, when thereto requested by said Commissioners, enter into a content of the principal therein will, when thereto requested by said Commissioners, to do the work as proposed: Provided, That a contract be awarded to him by the Commissioners on his proposel.

The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in part, if they shall deem it necessary to secure the interest of the State.

The plans and specifications of said work may be seen, and printed specifications will be furnished, on amplication at the office of A. H. Piquenard, Esq.. Acting Architect, in the new State House.

The plans and special control of the printed specifications will be turnished, on since t, in the new office of A. H. Piquenard, Esq. Acting Architect, in the new State House.

All "proposals " must be sealed and indoction, "New State House proposals," and addressed to Jacob Bunn, President, and delivered at the office of the Secretary of the Board, in the new State House, Springfield, Ill., prior to 12 o'clock, noon, May 4, 1876, at which time and place all such proposals roceived will be opened.

A. H. Piquenaed, Acting Architect.

JACOB B. NN,
JUNT. STUART,
JAS. H. BEVERIDGE,
Commissioners.

Springfield, Ill., April 3, 1876

NEW YORK BOARD OF EDUCATION. -NEW YORK BOARD OF EDUCATION.—
Scaled proposals will be received by the School Trustees of the Tweith Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until Monday, the Greententh day of April, 1875, and until four o'clock F.M. on said day, for enlarging and altering Granmars Schoolmes No. 37, on Edity Street, hear Fourth Ave.—
Fine and specifications may be seen, and blanks for proposals obtained at Green Street, into Hanks for proposal obtained at Green Street, third floor.
Froposals must state the estimate for each branch of the work separately, and be indorsed. Proposal for Mason Work, "Proposal for Carpenter Work," "Proposal for Painting," "Proposal for Carpenter Work," "Proposal for Painting," "Proposal for Hennits."

ture."
Two esponsible and approved sureties, residents of this City, will be required from each successful bidder. Proposals will not be considered unless sureties are named.
The Trustees reserve the right to reject any or all of the proposals submitted. GRANVILLEP. HAWES, ANDREW SMITH, DAVID H. KNAPP, CHARLES CRARY, JOHN L. TONNELE, Board of School Trustees, Twelith Ward. Dated NEW YORK, April 2, 1876.

BRIDGE.

BRIDGE.

Commissioners' Office, Cincinnati.

Proposals will be received at this office until Saturday, pril 29, 1876, at twelve o'clock, M., for masonry for a bridge cross Dry Fork of Whitewater on the new county road sading from New Haven to Venice in Crosby township, pecifications can be seen at this office. Also for a supertructure at the same piace, wood or iron, a bundred and orty feet clear span and clafacen feet clear roadway. Also or taking down, removing, and rebuilding superstructure new abutments. Payments will be made in Hamilton Jounty Bonds bearing interest at seven or cert.

JOSEPH B. HUMPHREY, Auditor.

ROOFING.—The State House Commissioners will receive proposals until noon or Ma. 4, 1876, to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lamtern, and the ornamentation of the Mansard roof, tarrets, and dome, separate bids will be received first, for the roofing and complete the state of the state GE. Commissioners. ELD. ILL, April 3, 1876.

VENTILATION.— Proposals will be received until 12 m., on the 20th day of April, — lat, for ventilating the present cells in the Peniteriary, at a cost not exceeding \$5,800 for work, labor, material, &c., according to the plans and specifications submitted by fi. P. McDonid. Fund; 2d, for plans and specifications for the first & Blaking Fund; 2d, for plans and specifications for further & Blaking Fund; 2d, for plans and specification for the properties of the fund; 2d, for plans and specification the properties of the fundamental form of the properties of the fundamental fundamental specifications may be examined at any time prior to the award at the Executive office, Frankfort, Kv. Address D. HOWARD SMITH, Secretary.

ENGINE HOUSE. — Sealed proposals for building a brick engine-house for the Newton Water Works, at Newton Upper Fails, will be received at the office of the Water Commissioners in Cole's Block, Newton, until noon of Wednesday, April 19 Drawings and specifications may be examined at said office. The Commissioners reserve the right to reject any and all proposals.

LEAD PIPE.

ST. LAWRENCE HALL.

W. W. COMMISSIONERS OFFICE.
TORONTO, April 1, 1878.
TORONTO, April 1, 1878.
10.40 J. ck P. R., for 160 tons of leaf p.p.: bess soft English pig., as follows: ; inch. 48 tons; j. inch. 4 tons; j. inch. 4 tons; j. inch. 4 tons. Specifications may be seen, and any anoremation obtained, uson application at the office of the Chief Engineer, F. A. Peterson.

PROPOSALS.

FOR WROUGHT AND REPORT OF THE WIND PROPERTY OF THE

SCHOOLHOUSE. — There will be offered for sale on Saturday, the twenty-second day of April, to the lowest rest onsible bidder, the contract for the erection of a schoolhouse in Sub-District No. 3 (Fairview) in the district township of Squaw, Warren County, Iowa. Sale to begin at two o clock sharp. Flans and specifications can be seen at he office of the county superint neart, and as the residence of Samuel Gregg, in District No. 3. The toundation will be sold separate. By criter of the Board of Sub-directors.

SAMUEL GREGG. President. SAMUEL GREGG, President

SCHOOLHOUSE. — Proposals will be received until Sa urday, April 22, at the office of the Secretary of In ependent School District of Center Junction, Jones County, Iowa, for building and completing a schoolhouse in said district. Plans and specifications can be seen at the office of the Secretary at Center Junction.

J. C. HOUSER, Secretary, Center Junction.

SCHOOLHOUSE. — Proposals will be received until the lst of May by the Secretary of Laurel Hill Independent School District, Greenfie'd township (P. O. address Martelle), for building and completing a schoolhouse in said district. Plans and specifications can be seen at the Eureka office, Anamosa, lowa, and at Dr. Belden's store, Martelle. 8. C. KEMP, Secretary.

MARTELLE, March 29, 1876.

SCHOOLHOUSE. — Proposals for the erection of a schoolho se in the independent District of Flint River Township, County of Des Moines, State of Iowa, will be received by the andersigned at he office, in said school district, until the twenty-ninth day of April, at one of look of the county of the

JOHN H. SUDBRACK, Sec. of the Board of Directors.

SCHOOLHOUSE. — Proposals for the erection of a schoolhouse in Sub-district No. 18, in the District Township of Beaver, County of Butler, and State of Iowa, will be received by the undersland at his reddence, in said township, where plans and specifications may be seen until Saturday, April 22, at 1 o clock P. M. P. WOOD, Sub-director.

GAS PIPE.

OFFICE WHEELING GAS WORES.

April 1, 1876.

Sealed proposals for furnishing and delivering in Wheeling gas pipe and special castings will be received at this office up to April 19, 1876, at five o'clock, p. M. All bids for furnishing pipe to specify the weights and thickness, and must be hid for by the foot, the pipe to be cast vertically, and to be of uniform thickness and weight. Bids for special castings to be made by the ton. Specifications for same will be furnished at this office, and all bids must state the time of delivery of all the pipe and other castings proposed to be furnished. All materials furnished to be pail for in each upon the compl. tion of the contract, trustees reserving the state of the sta

TRON-TRUSSED BRIDGE.

RON-TRUSSED BRIDGE.

CITY COMMISSIONERS' OFFICE, BALTIMORE, March 30, 1-76.

Proposals, plans, and specifications will be received at this office until Thursday, April 27, at 12 M., for furnishing the materials for and con-truction of an iron-trussed bridge over Jones Falls on the line of John Sirect. The bridge to be comp sed of 4 trusses. The outside lines to be 8 feet r.m. c. ntre of truss to the line of John Sirect. The bridge to be 16 feet, 8 laches, from centre to centre. The horizontal bracing to consist or cross struts and diagonal rods at top and bottom cords. Length between majorry, 136 feet; which of truss, 18 feet; which width of rodsway, 40 feet; wid h of side-walks (each), 13 feet; whole width of ordige from out to out, 66 feet. For full particulars see Balt more Gazette, April. N.B.—Ordinance 43, of March, 1875, provid's "has it shall be beserted in the centract and be contracted to the stability of the contraction of the contraction

SCHOOLHOUSE. — Sealed proposals will School House. — Sealed proposals will be received at the office of the Clerk of the Beard of Education of Northampton Township, Sammit County, O., until twelve o'clock at noon, on the seventeenth day of April, 1876, for building a schoolhouse on the lot situated in Sub District No. 1, according to the plans and specifications on file in said office.

By order of the Beard of Education.

H. A. PACKARD, Clerk.

By order of the Board of Education, H. A. PACKARD, Clerk.

IRON TRUSS BRIDGE. — Sealed proposals will be received by the Commissioners of Case County, Ind., at their office in Logansport, Ind., until twelve o'clock, noon, on the twentieth day of April, 1876, for the crection of a Wrought-Iron Truss Bridge over Eel River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span Il of feet and one span Il2 feet extreme lengths, with one roadway 20 feet clear width, and two footways 6 feet clear width, and two footways 6 feet clear width, and two footways 6 feet clear width, and two footways feet clear width, and two footways 6 feet clear width, and two footways feet clear width, and two footways, and footways feet clear width, and two footways, with a loak floor or roadways, and footways, a

MASONRY AND IRON WORK.—Proposals will be received by the Board of Commissioners of Monroe County, Ind., at the Auditor s office, until one o'clock, Wednesday, April 36, 1876, for the building of stone abutments for bridge, and iron fence around the court house square. Plans and specifications can be seen at the Auditor's office. Cash nayments.

JAMES F. MANLEY, Auditor Monroe County, Ind.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of heat, which insures always a proper condition of the air as to price in the control of the air as to provide the control of the air as to provide the control of the contr

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the security of health, and stake my reputation as a sanitary expert that all my work shall be thoroughly done, as well as honestly done. I employ only faitbul and skilful mechanics, and rely for success not so much upon methods involving the use of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles of common knowledge.

Among those who have employed me are Alex. S. Porter, R. B. Forbes, Mrs. Bavid Osgood, American Insurance Co., Francis Peahody, A. T. Byrnes. Alexander H. Rice, Wm. Amory, Jun., Samuel H. Russell, S. E. Sewall, A. T. Perkins; A. P. Baker, M.D., Newport; B. Schlesinger, New York.

Frederic Tudor,

Sanitary Engineer.

5 Pemberton Square, Boston.

From 10 till 1.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

ARCHITECTS.

OFFICES OF FRANK W. WESTON,

(17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,
ROSTO BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architects, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDEB AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON.

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER

86 North St., Boston.

Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books

Mailed free to any address.

Il architectural and Scientific B A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS 27 WARREN STREET, NEW YORK.

E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS.

1131 TREMONT ST., Boston.

Architects desiring information connected with our art,



The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.

S. P. TOLMAN & E. A. HUNTING.
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTCAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

r own patterns, or from architects' drawings. 20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET

TO ARCHITECTS and BUILDERS

Bay State Colors.

for all kinds of House and other Painting, both outside and maide work.

These colors will change less upon exposure, and prove more durable, than pure White Lead Paints colored in the ordinary way.

Warranted more Economical,

More Durable and Reliable,

Than any Paints ever before offered.

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals
Manufacturers of Varnishes and Japans.

34 INDIA STREET,

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET,

BOSTON.

CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Constructs. Architectural Finst, Petall Drawings and Specification Pire Instruce Adjusters between Insurance Compas is waters or Occupants, in case of Fire or Damage; Estimativen for all Trades in Building, &c.

ANNALS OF A FORTRESS. BY VIOL-LET-LE-DUC. Translated by Berjamin Bucknall. Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

. For sale by all Booksellers. Sent postpaid, on receipt of price by the publishers.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

A G E N T S .

Boston.—Farsons & Torry, 636 Washingon st; Pitkin Broz. 23 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, 7 Dock sq; Farless & Boynton, 13 Cormill; Gardner & Chandler, 1321 Washington st; B. L. Solomon & Sons, 40 Franklin street.

Providence, R. J. — Belcher Broz, 27 Weyboset st. Providence, R. J. — Belcher Broz, 27 Weyboset st. Providence, R. J. — Belcher Broz, 27 Weyboset st. Sew Y ork City. — A. Hammacher & Co., 200 Bowey; B. Solomon & Sons, 639 Brows, 13 Broz. — Pollock, Weaver, & Co., 17 Buffalo st. Buffalo. — C. H. Uley, & Pearsi & Brat. — Broz. —

Our goods can be purchased of the above Agents at the

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



RUETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,



METAL WORKER.

Escatcheons, Locks, Hinges, Andir

MADE TO ORDER,

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STERRY, NEAR TREMORT, BOSTON.

A RT FOLIAGE. By J. K. COLLING. 1 vol.

quarto. 72 plates. \$15.00.

s. For saile by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSCIOOD & CO., BOSTON

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS.

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY. THUYA, ROSEWOOD, etc., WHITE HOLLY.

suitable for

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS.

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

THIRD YEAR. 1876. 1876.

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

Contractor for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

No. 170 TREMONT ST., BOSTON.

DECOR ATIONS

Churches, Halls,

Private Residences.

ETC., ETC., ETC.



LIBERAL ESTIMATES

AND DESIGNS

S Fresco Painting

and Decorations

IN ALL VARIETIES.

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING, IRON CRESTINGS,

> FOUNTAINS, VASES.

IRON STABLE FIXTURES.

GARDEN STATUARY,

WEATHER VANES,

AND BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY,

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO., 1299 Washington St., Boston, Mass.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by GROBGE M. TOWLE. 1 vol. 8vo. beveled boards, red edges, \$4.00.

*. For sale by all Booksellers, Sent postpaid, on receipt of price by the Publishers. JAMES R. OSGOOD & CO., BOSTON.

Boston Ornamental Iron Works DISCOURSES ON ARCHITECTURE.—

By VIOLER-LE-DUO. Translated, with an Introductory Essay, by HENNY VAN BELEVET, Fellow American Inst.

Lucio of Architectae. Full yllustrated. 1 vol. royal 8vo., 88.60.

ory Essay, by HERRIY VAR DECES, and without of Architectar. Fully illustrated. I vol. royal 8vo., 88.6 "We have no hesitation in saying deliberately, and without limit of the first of the

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES B. OSGOOD & CO., Boston.

UPS AND DOWNS ON LAND AND "Turning over these pages is like gathering around a freside and the state of the

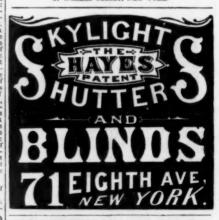
Catalogue of Architectural

Mailed free to any address.

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS. 27 WARREN STREET, NEW YORK.



CHILD-LIFE IN PICTURES.

JAMES B. OSGOOD & CO., BOSTON.

Franklin Press: Rand, Avery, & Co., Boston.





Vol. I. No. 17.1

BOSTON, SATURDAY, APRIL 22, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

ROOFS.

THE ATTENTION OF ARCHITECTS AND BUILDERS

is asked to the merits of

GLINE'S RUBBER ROOFING.

IT IS VERY ELASTIC.

NO TAR NOR GRAVEL

18 CLEAN TO HANDLE,

PLIABLE IN COLD WEATHER,

FIRM AND ODORLESS IN HOT WEATHER, CAN BE SAFELY USED WHERE WATER IS COL-

LECTED IN TANKS AND CISTERNS.

CORRESPONDENCE INVITED.

NEW YORK SLATE ROOFING CO., LIMITED, 8 CEDAR STREET, NEW YORK.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS. 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where h-avy pressures are used; and the case and certainty with which a joint can be made are great recom-mendations in its favor."— Iron Ags.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Babber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
BOBERT GEMS, Teas.—Saleroom, 339 Washington St.,
BOSTON, Mass.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in

BUILDING STONE,

onio stone, from berlin, amherst, and berra quarri

Sole Agent for LIN STONE, BERLIN And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

dio Buildings, 141 Centre Street, 427 Wainut Street Boston. New York. Philadelphia.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.

S. W. FULLER, 63 Devonshire Street, Bost

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., \$17 Washington St., BOSTON.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hillow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less the brick.

brica. re-proof partitions, floor arches between iron beams, ags under wooden or iron beams, in the following

was under wooden or iron beams, in the following buildings:

Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Williams by Bawings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Wildsor Hotel, New York Hospital, New York Hospital, Thome, Peabody Museum. Side, Sidewalts laid at Lenox Library, Tribune, &c. Hollow Bricks of alk huds. On Phroved by the New York Board of Fire Hospital, and the Superintendent of Buildings, After severe public lests.

LEONARD F. RECKWITER Description.

LEONARD F. BECKWITH, President.

CAPE ANN GRANITE COMPANY

OBANITE. BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTICS: BAY VIEW, GLOCESTER, MASS.
JONAS H. FRENCER, Fres.
SCOTT WEBBER, Supt.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT IRON BRANK, and THE
"BURDEN BRET" IRON, Tensile Strength 78,600 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
III AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BEONZE, AND GLASS CHANDELIEES, Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, IT Central Street, Boston.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

WINDOW VENTILATORS.—WHITE'S
draughts. Easily adjusted to large or small rooms. Should
be examined by Architects and Builders. W. H. KIMBALL, Agent, 120 Tremont Street, Boston.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEDD STREETS, BOSTON.

CALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Fatent Chimney Jacks, Wiadow Caps, &c. SMITH & VAN NOORDEN, 337 Harrison Avenne, Boston.

WALWORTH MANUFACTURING CO V STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Boston.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

TUFTS' ELEVATOR WORKS.

MANUFACTURERS OF "TUFTS' PATENT" COMBI-

NATION BOPE ELEVATOR,
The only safe and reliable machine made for Passenger use
in Public Buildings and Hotels, and for business purposes in
Warehouses, Stores, &C.

OFFICE, 3 Park Place, New York.

OTIS TUSTS.
President. L. A. BIGELOW, Treas'r and Gen'l Manager.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

BELTING FOR ELEVATORS, HOSE OF Linea, Leather, sind Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Cours St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

FRESCO PAINTERS.

W. J. MoPHERSON, Established A. D.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMUNT STREET, BOSTON, MASS

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Bos

WARNER BAILEY, Sign and Ornamental

PROPOSALS

FOR OTHER PROPOSALS SEE SECOND PAGE.

PROPOSALS FOR BRICK AND STONE

WORK.

U. S. COURT-HOUSE AND POST-OFFICE, EVANSVILLE, IND.

OFFICE OF SUPERINDENDERT, April 1, 1876.
Sealed proposals will be received at this office until
twelve, M., of the twenty-fourth day of April, 1876, for all
the brick work and stone work required to complete the
United States Court-House and Fost-Office, Evanswille,
Ind., in accordance with the plans and specification.

Copies of the drawings, specification, and any additional
information, may be had on application at this office.

J. H. MONEELY, Superintendent.

PROPOSALS

COURT HOUSE AND JAIL.

OFFICE OF THE BOARD OF CO. COMMISSIONERS, SWEETWATER CO., GREEK RIVER, WYO.

March 31, 1876.

Senied proposals will be received by the County Commissioners of Sweetwater Co., Wyo. Ter., at the County Clerk's office, Green River City, up to one o'clock, P.M., May 18, for the furnishing of material and building of a Court House and Jail at Green River City, according to the plans and specifications which van be seen at the County Clerk's office, Green River City, Wyo. Ter. Bonds will be required in double the amount for the faithful performance of the contract. Commissioners reserve the right to reject any or all bills.

A. McINTOSH, Clerk.

A. McINTOSH, Clerk.

COURT HOUSE.—Tenders are invited for the county of Feorla. From the City of Feorla. For the county of Feorla. Plans and specifications are on file in the office of the County Clerk at Feorla. Proposis must be submitted at or before two o'clock in the afternoon of Thursday, twenty-seventh day of April, and must be enclosed directed to Juo. A. McCoy, Clairman of the Board of Supervisors, Peorla, Ill., and marked, "Proposals for Building Peorla County Court House," with the name of the blidder on the envelope. Plans and specifications may also be seen at the office of Wilcox & Miller, Architects of the building, 112 and 114 Randolph Street, Chicago. The bids will be opened before the Board of Supervisors on Thursday, April 21, at two o'clock, P.M., to which bidders are invited. The Board of Supervisors reserve the right to reject any or all proposals. Jso. A. McCox, Chairman Building Committee.

BRICK CHURCH. — Sealed proposals for building a brick church and vestry for the Congregational Society of Pittsfield, N. H., will be received at the office of the Pittsfield Savings Bank in Pittsfield.

Drawings and specifications may be examined at the office of A. L. Bavies, Esp., in Manchester, N.H., until noon of Tuesday, April 25, 1876, afterwards until noon of Wednesday, May 3, 1876, a the office of Pittsfield Savings Bank.

The committee reserve the right to reject any and all proposals.

PITTSPIELD, N.H., April 17, 1876.

SCHOOLHOUSE. - Proposals for the erection of a schoolhouse in Sub-District No. 2, and one schoolhouse in Sub-District No. 3, and one schoolhouse in Sub-District No. 6, in the township of Cedar, in the County of Mitchell, and State of Iowa, will be received by James Temple, in Sub-District No. 2, and Ole O. Haugerud, in Sub-District No. 6, until 1 o'clock P.M. on Saturday, the sixth day of May. Plans and specifications will be seen at James Temple's and Ole O. Haugerud, at Osage, Io. By order of the Board of directors.

ROOFING. — Notice is hereby given that the State House Commissioners will receive proposals to furnish in place, complete, the metallic comices, caps, and everying of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and

and the ornamentation of the Mansard roof, turrets, and lome.

Separate bids will be received; first, for the roofing and sornice work; second, for the ornamentation.

Each proposal must be accompanied by a good and anti-tient bend, with two or more responsible sureties to the state of Illinois, in the penal sum of \$2.000, conditioned that he principal therein will, when thereto requested by said Commissioners, enter into a contract with the State of Illinois, with a good and sufficient bond, to be approved by said Commissioners, to do the work as proposed: Provided, That contract be awarded to him by the Commissioners on his proposal.

a contract be awarded to him by the Commissioners on his proposal.

The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in part, or to receive any bid, the whole or in part, if they shall deem it necessary to secure the interest of the State.

The plans and specifications of said work may be seen, and printed specification will be furnished, on application at the office of A. H. Piquenard, Esq., Acting Architect, in the new State Hause.

All "proposals" "must be sealed and indorsed, "New State House proposals," and addressed to Jacob Bunn, President,

office of A. H. Figueriard, Emp., Acking architect, in an areState House.

All "proposals," must be sealed and indorsed, "New State
House proposals, and addressed to Jacob Bunn, President,
and delivered at the office of the Secretary of the Board, in
the new State House, Springfield, Ill, prior to 12 o'clock,
neon, May-4, 1876, at which time and place all such propoals received will be opened.

A. H. Piquenard, Acting Architect.

JACOB BUNN,
JOHN T. STUART,
JAS. H. BEYERIDGE,
Commissioners.

Springfield, Ill., April 3, 1876.

BRIDGE.

BRIDGE.

Commissioners' Office, Christmat,
Habittor County, O.

Proposals will be received at this office until Saturday,
April 29, 1878, at tweive o'clock, m., for masonry for a bridge
across Dry Fork of Whitewater on the new county road
leading from New Haven to Venice in Crosby township,
Specifications can be seen at this office. Also for a superstructure at the same place, wood or iron, a hundred and
forty feet clear span and eighteen feet clear roadway. Also
for taking down, removing, and rebuilding superstructure
on new abutments. Payments will be made in Hamilton
County Bonds bearing interest at seven per cent.

JOSEPH B. HUMPHREY, Auditor.

ROOFING.—The State House Commissioners will receive proposals until noon of May 4, 1876, to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome. Separate bids will be received: first, for the roofing and cornice work; second, for the ornamentation. The plans and specifications of said work may be seen, and printed apecifications will be furnished, on application at the office of A. H. PIQUENARD, Acting Architect, in the new State House. JACOB BUNN, JOHN T. STUART, JAMES H. BEVERHOUSE, Commissioners.
SPRINGPIELD, ILL., April 3, 1876.

SPRINGPIELD, ILL, April S, 1876.

SCHOOLHOUSE. — Proposals will be received by me for the building of a schoolhouse in Fork T. wnship, Tama County, Iowa, until Morday, May I. The specifications can be seen at my office one half fulle west of Riodman.

AMOS ROOLES, Irving, Iowa, Sec. of School District.

SCHOOLHOUSE. — Proposals will be received until the list of May by the Secretary of Laurel Hill Independent School District, Greenfield township (P. O. address Martelle), for building and completing a schoolhouse in said district. Plans and specifications can be seen at the Eureka office, Anamosa, Iowa, and at Dr. Belden's store, Martelle.

S. C. KEMP, Secretary.

S. C. KEMP, Secretary. MARTELLE, March 29, 1876.

PROPOSALS.

I RON-TRUSSED BRIDGE.

CITY COMMISSIONERS' OFFICE, BALTIMORE, March 30, 1876. CITY COMMISSIONERS OFFICE, BALTIMORS,
March 30, 1876.
Proposals, plans, and specifications will be received at
this office until Thursday, April 71, at 12 m., for furnishing
the materials for and construction of an iron-trussed bridge
over Jones Falls on the line of John Street. The bridge to
be composed of 4 trusses. The outside lines to be 8 feet
from centre of truss to the line of sidewalk; the intermediate lines to be 16 feet, 8 inches, from centre to centre.
The horizonal bracius to consist of cross struta and diagomn rods at top and bottom cords. Length between masoury, 185 feet; depth of truss, 18 feet; width of roadway,
46 feet; width of sidewalks (each), 18 feet; whole width of
bridge from out to out, 66 feet. For full particulars see
Baltimore Gazette, April N. B.—Ordinance 43, of March,
1875, provides "that it shall be inserted in the contract of
the contractor shall have the work for sadd bridges done at
the city of Baltimore, by mechanics and workmen who are
citizens of Baltimore City, and the work to be done, and all
the materials that can be furnished by Baltimore contractors. citizens or the materials that can be furnished that can be furnished tractors.

JOHN E. TOOLE, Clerk to City Commissioners.

IRON TRUSS BRIDGE. — Sealed proposals will be received by the Commissioners of Cass County, Ind., at their office in Logansport, Ind., until twelve o'cleck, noon, on the twentieth day of April, 1876, for the erection of a Wrought-fron Truss Bridge over Eel River at the north end of Sixth Street, in the city of Logansport. Said bridge to have two spans, one span 110 feet and one span 112 feet extreme lengths, with one rondway 20 feet clear width, and two footways feet clear width each; to have 1-inch as a floor on was way and select pine floor beams and wrought-fron footway fences, with poets secured on floor beams. Capacity of bridge to be 100 lbs. per square foot of roadway, and 60 lbs. per square foot of footways, exclusive of bridge weight. No iron to be strained over 13,000 lbs. per square inch in tension, 8,000 lbs. per square inch in shearing, and 9,000 lbs. per square inch in shearing, and shear inch in tension, 8,000 lbs. per square inch in shearing, and shear inch in tension, 8,000 lbs. per square inch in shearing, and 9,000 lbs. per square inch in from the bridge, together with strain sheets, giving weight of bridge with maximum strains under the specified load, and the bridge, together with strain sheets, giving weight of bridge to be made per lineal foot for extreme length of superstructure. Proposals not in accordance with this advertisement will not be considered; and the right is reserved to reject any and all blis.

JOHN HYNES, DENNIS UHL, DANIEL FOGLESONG, Board of Commissioners, Cass Coasty.

MASONRY AND IRON WORK.—Proposals will be received by the Board of Commissioners of Monroe County, Ind., at the Auditor's office, until one o'clock, Wednesday, April 28, 1878, for the building of stone abutments for bridge, and from fence around the court house square. Plans and specifications can be seen at the Auditor's office. Cash bayments.

JAMES F. MANLEY, Auditor Monroe County, Ind.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile,

American, Roman, and Portland Cement, LIME, SAND, &c. WALDO BROTHERS,

No. 94 Water Street, Bost

PRACTICAL TREATISE

Construction of Roads, Streets, and Pavements.

BY GENERAL Q. A. GILLMORE,

ieut.-Colonel U. S. Corps of Engineers; Brev. Major-Gener U. S. Army; author of "Limes, Hydraulic Cements, and Mortars;" "Colgnet Beton and other Artificial Stones;" "On Strength of Building Stones in the United States," &c., &c.

With 70 Illustrations 12mo. Cloth. \$2.0

D. VAN NOSTRAND, Publisher, 23 Murray St., and 27 Warren St., New York,

Copies sent free by mail on receipt of price.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of heat, which insures always a proper condition of the air as to purity, temperature, and relative humidity; perfect circulation and distribution, combined with ready means for adjustment to the varying demands upon the apparatus, dependent upon the state of the weather, and the number of people to be supplied with air. It can be employed as the instrument of ventilation aione, or warming alone, or both together, wholly or parity, and admits of application to apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the security of health, and stake my
expectation as a sanitary expert that all my work shall be
featisful and skilful mechanics, and rely for success not no
much upon methods involving the use of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles
of common knowledge.

Among those who have employed me are Alex. 8. Porter,
R. B. Forbes, Mrs. Isavid Oogood, American Insurance Co.,
Frarets Fresbody, A. T. Byrnes. Alexander H. Rice, Wzb.
Amory, Jun, Samuel H. Russelt. 8. E. Sewall, A. T. Perkins,
A. P. Baker, M. D., Newport; B. Schlesinger, New York.

Frederic Tudor.

Sanitary Engineer.
From 10 till 1.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

or all kinds of House and other Painting, both outside and aside work. e work. see colors will change less upon exposure, and prove durable, than pure White Lead Paints colored in the ary way.

Warranted more Economical.

More Durable and Reliable,

Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET, BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late WESTON & HAND, 17 Pemberton Sq. Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., BOSTON,

GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architects, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School Street, Boston.

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 499 HARRISON AVENUE, BOSTOS

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord, N. H. Offices, 10 Canal Street,
Bosten, and Concord and Manchester, N. H. Churches and
Public Buildings a specialty. Estimates given.

MASS. INSTITUTE OF TECHNOLOGY,
This school offers a four-years' scientific and professional training for Chemists. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. SAMUEL EMERLARD, Secretary.

Bobrox, Feb. 1, 1876.

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER

86 North St., Boston.

**Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

ments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK.

E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS

1131 TREMONT ST., Boston.

Architects desiring information connected with our art re invited to confer with us.



The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.

S. P. TOLMAN & E. A. HUNTING, GENERAL AGENTS. Particular attention given to Repair-ing and Leasing Estates and the Collection of Renta, MORTIGAGES NEGOTIATED. NO. 11 BROMFIELD STREET. ROSTON.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.
Bronze and Brass Hardware manu rown patterns, or from architects' drawings. 20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

ms, 27 Sudbury, and 60 & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

E. Hixon

E. Hixon, jur

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

188 TREMONT STREET.

BOSTON.

CHARLES WOODBERRY & SON, MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Constructions. Architectural Plans. Petail Drawings and Specification Fire Insurance Adjusters between Insurance Companiowners or Occupanta. in case of Fire or Damage; Estima given for all Trades in Building, &c.

ANNALS OF A FORTRESS. BY VIOL-A LET-LE-DUC. Translated by BENJAMIN BUCKNALL, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

. For sale by all Booksellers. Sent poetpaid, on receipt of price by the publishers.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS. CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

Hoston.—Parsons & Torry, 636 Washingon st; Pitkin Bros Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal Dock st; Farless & Boynton, 13 Cornhill; Gardner & Chandler 21 Washington st; B. L. Solomon & Sons, 49 Franklin street. Providence, B. L. Belcher Bros, 27 Weyboset st. New York City.—A. Hammacher & Co., 299 Bowery, B. J. J. Tillotson & Co. 8 Dey st; O. A. Nathastus, 228 Bowery; B. J.

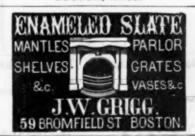
Charlestown et. Allen & Noble, 98 Hanover v.;
Charlestown et. Allen & Noble, 98 Hanover v.;
Dock en; Farless & Boynton, 13 Corphill; Sardner & Chandler,
Washington et. B. L. Solomon & Sons, 68 Fanklin street.
Wew York Olty, — A. Hammacher & Co., 299 Bowery;
J. Tillotton & Co. 8 Dey et; O. A. Nathusius, 229 Bowery; B. L.
olomon & Sons, 698 Broadway; E. R. Krunnu, 121 Essex street;
has. E. Kugler, 10 Division et.; Speer Bros, 110 Bowery; W.F.
Haben, E. Solomon & Co. 8 Dey Eros, 110 Bowery; W.F.
hibinger, 188 Grand &t. C. A. Stoch, 116 Wooder street.
Brooklyn, (E. D.) X. Y.—Hernam Weber, 184 Graham av.
Brocherster, — Pollock, Weaver, & Co., 18 Buffalo st.
Buffalo, — C. H. Udey, 22 Pearl st.
Philadelphia. — Thomas Thompson, Sons, & Co., 249 S. 24;
N. 26 st; B. L. Solomon & Sons, 31 N. 26 st; F. A. Bueren, 83 E.
Bughin et. Thomas Knight & Co., cor. Blidge ave, and Green st.
Philadelphia, — Ghord of the Co. 200 S. 200;
N. 26 st; B. L. Solomon & Sons, 31 N. 26 st; F. A. Bueren, 83 E.
Bughin et. Thomas Knight & Co., cor. Blidge ave, and Green st.
Philadelphia, — Georgia Sons, 200;
Philadelphia, — Thomas Knight & Co., cor. Blidge ave, and Green st.
Philadelphia, — A. Bugling ave, 200;
Philadelphia, — A. Bugling ave, 200;
Philadelphia, — Sons, 200;
Phil

Our goods can be purchased of the above Agents at the ices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston,

O. H. PERRY,



METAL WORKER,

rutcheons, Locks, Hinges, And Fenders, Knockers, &c., MADE TO ORDER,

Franklin, corner Centre Street,

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE. WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, BEAR TREMONT, BOSTON.

A RT FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.90.

** For anle by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

**AMES R. OSGOOD & CO., BOSTON

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. WHITE HOLLY. THUYA, ROSEWOOD, etc., MAHOGANY.

sultable for

CAR BUILDERS, CAMINES, PIANO, AND HILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS.

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Draft or Post-Office Order, and receive your numbers regularly,

paid.
PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston,

Contractor for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
PIRE-PLACE LININGS, HEARTHS, AND HALL, VES-TIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.

Churches, Halls,

Private Residences.

ETC., ETC., ETC.



AND DESIGNS

MADE FOR

S Fresco Painting

and Decorations

IN ALL VARIETIES.

Boston Ornamental Iron Works

WROUGHT AND CAST IROS

For Building IBON AND WIRE BAILING.

IRON CRESTINGS IBON STABLE FIXTURES. POUNTAINS.

DARDEN STATUARY,

WEATHER VANES

BUILDERS' HARDWARE. Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue

IER & COMPANY.

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.,

1299 Washington St., Boston, Mass.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by GROBER M. TOWLE. I vol. 8ve. heveled boards, red edges, \$5.00.

. For sale by all Booksellers. Sent postpaid, on receiped price by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.

The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,

181 FRANKLIN STREET......BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.56 per year; \$6.00 in adva

BATES OF ADVERTISING.

One inch, one month . One inch, three months One inch, nine months. One inch, one year. On other pages, 10 cents per line each insertion, or

Pranklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural Books

All Architectural and Scientific Books supplied at put

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.



CHILD-LIFE IN PICTURES. U twenty-four Heliotype Plates, from Correscoto, Cor-LET, REYAOLDS, GREUZE, LAWRENCE, MURIL O. GERARD, RAPHARL, and other celebrated painters,—forming a series of charming pictures of children and child-life. Quarto. Price, \$10.00. Containing

JAMES B. OSGOOD & CO., BOSTON.





Vol. I. No. 18.]

BOSTON, SATURDAY, APRIL 29, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street New York. | Philadelphia.

ROOFS.

THE ATTENTION OF ARCHITECTS AND BUILDES

is asked to the merits of

GLINE'S RUBBER ROOFING.

IT IS VERY ELASTIC.

NO TAR NOR GRAVEL,

18 CLEAN TO HANDLE,

PLIABLE IN COLD WEATHER.

FIRM AND ODORLESS IN HOT WEATHER, CAN BE SAFELY USED WHERE WATER IS COL-LECTED IN TANKS AND CISTERNS.

CORRESPONDENCE INVITED

NEW YORK SLATE ROOFING CO., LIMITED, 8 CEDAR STREET, NEW YORK.

TIN-LINED IRON P PIPE

Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite is all towns where heavy pressures are used; and the case an certainty with which a joint can be made are great recommendations in its favor." — Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
BOBERT GEMS, Tress.—Saleeroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES

Sole Agent for BERLIN STONE, And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS.

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.

S. W. FULLER,

© Devonshire Street, Bos

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., MI Washington St., BOSTON.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:—

buildings:—

Western Union Telegraph,
Del. and Hudson Canal Co.,
Equitable Life Assurance,
Wil'mab gh Savings Bank,
Westminster Hotel,
Byracuse Savings Bank,
Columbia College,
Baltimore Safe Deport,
Insurance on Wooden Mansards r, duced ninety cents per
\$100. Sidewalks laid at Lenox Library, Tibune, &c. Hollow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Baildings, after severe public tests.

LEONARD F. BECKWITH Devotation.

LEONARD F. BECKWITH, President.

CAPE ANN GRANITE COMPANY

FurnishGRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOUGESTER, MASS.
JONAS H. FRENCH, Fres. COUT WEBBER, SUPL.

FULLER, DANA, & FITZ,
110 NORTH STREET, BORTON.
METAL MERCHANTS, Importers of BOOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
BION MILLS' Solid WOUGHT IRON BRAMS, and THE
"BURDEN BEET" IRON, Tensile Strength 78,000 lbs.

M. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Futting in all its Branches. Architects, Contractors, and Builders furnished

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND Flat Roofs. Only Manufacturers, NEW ENGLA FELT ROOFING COMPANY, 17 Central Street, Boston

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

WINDOW VENTILATORS.—WHITE'S
PATENT supplies pure air, without dust or coal
draughts. Easily adjusted to large or small rooms. Should
be examined by Architects and Builders. W. H. KIMBALL, Agent, 120 Tremont Street, Boston.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTOM.

GALVANIZED IRON CORNICES
Campbell's Patent Chimney Jacks, Window Caps, &c
SMITH & VAN NORDEN, SOT Harrison Avenue, Boston

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus Wrought fron Pipes and Fittings. No. 69 Kibly St., Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The OBLY MANUFACTURERS of these goods in New England. No. 11 Marshall Street, Bos.on.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR.

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 2 Park Place, New York.

OTIS TUFTS,
President.

L. A. BIGELOW, Treas'r and Gen'i Manager.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLET STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIDNEY TOPS, FUNNEL STONES, &c. BENJ. NOTES, Agend.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 130 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 School Street, Boston.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Boston.

WARNER BAILEY, Sign and Ornamental

PROPOSALS.

GRANITE CURBING.

CITY OF BOSTON, CITT HALL, April 20, 1876.
PROPOSALE FOR GRARITE CURBURG.— Notice is hereby given, that sealed proposals will be received at the office of the Clerk of Committees, City Hall, Boston, until Wednesday, May 2, 1876, at 18 Colock, moon, for furnishing and setting 2,600 feet, more or less, of Granite Curbing around the squares on Commonwealth Avenue, from Fairfield Street to day, Allay a service of less, or transcent of the Street of Commonwealth Avenue, from Fairfield Street squares on Commonwealth Avenue, from Fairfield Street.

The curb to be of the same form, and set in the same manner, as the curb around the square between Exeter and Fairfield Streets.

For further particulars apply to the Superintendent of Common and Public Grounds.

The right to reject any or all proposals is hereby reserved. Proposals must be addressed to the undersigned, and marked, "Proposals for Grante Curbing."

JOHN T. CLARK,

Chairman Committee on Coumon and Public Grounds.

N. BOARD OF EDUCATION.— Enlarging Grammar School House. Scaled proposals
will be received by the School Trustees of the Twentyshird Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until MONDAY, the first
day of May, 1876, and until 4 o'elock P.M. on said day, for
enlarging Grammar School House No. 61, on Third Avenue,
near 168th Street.

Plans and specifications may be seen, and blanks for proposals obtained, at the office of the Superintendent of School
Buildings, No. 166 Grand Street, third floor.

Proposals must state the estimate for each branch of the
work separately, and be indorsed "Proposal for Mason
Work," "Proposal for Carpenter Work," "Proposal
for Painting," "Proposal for Termitare," "Proposal for
Furnitare," "Proposal for Heating," "Proposal for
Furnitare," "Blemented Street Street Street

The Street Street

Planting," "Proposal for Heating," "Proposal for
Furnitare," "Blemented Street Street

Planting," "Proposal for Heating," "Proposal for

Froposal for Heating, "Proposal for Heating, "Proposal for Furniture,"
Two responsible and approved sureties, residents of this city, will be required from each successful bidder. Proposals will not be considered unless sureties are named.
The Trustees reserve the right to reject any or all of the proposals submitted.
NATHAN 8. KING, WILLIAM HOGG, ALONZO CARR, JOHN L. BURNETT, GEORGE C. MANNER, Board of School Trustees, Twenty-third Ward.
NEW YORK, April 12, 1876.

N. Y. BOARD OF EDUCATION. — School
Furniture. Scaled proposals will be received by
the School Trustees of the Twenty-second Ward, at the
Hall of the Board of Education, corner of Grand and Elm
Streets, until TUESDAY, May 2, 1876, and until 4% o'clock
P.K. on said day, for the desks, seats, and other furniture
required for the new schoolhouse on West Fifty-fourth
Scale between Sixth and Seventh Avenue.

Beside proposals will also be received at the same time
and place, for the stram-heating apparatus for said
school.

Plans and specifications.

and place, for the stram-heating apparatus for said school. Plans and specifications may be seen at the office of the Superintendent of School Buildings, and the Engineer, No. 146 Grand Street, third floor.
Two responsible and appared sureties, residents of this Two responsible and appared sureties, residents of this Two responsible superiors and the superior of the will not be considered unless sureties are named.
The Trustees reserve the right to reject any or all of the proposals submitted.
JAMES R. CUMING, ADNA H. UNDERHILL, WALTER CARTER, JOHN MORGAN, JOEL W. MASON, Board of School Trustees, 22d Wa'd.
NEW YORK, April 18, 1876.

NEW YORK BOARD OF EDUCATION. -N SCHOOL FURNITURE. Sealed proposals will be re-ceived by the School Trustees of the Eleventh Ward, at the Hall of the Board of Education, corner of Grand and Elm Streats, until Tuesday, May 2, 1876, and until half-past three o'clock P.M. on said day, for the desks, seats, and other fur-niture required for Grammar School No. 36, on Ninth Street, near Avenue C.

Billife required for Grammar sensoi. No. 30, on Ainth Street, Bear Avenue C.

Sealed proposals will also be received at the same time and place, for the steam heating apparatus for said school.

Plans and specifications may be seen at the office of the Superintendent of School Bulldings and the Engineer, No. 166 Grand Street, third floor.

166 Grand Street, third floor.

167 Grand Street, third floor.

168 Grand Street, third floor.

169 The superintended surface at the first proposals will not be considered unless sureties are named.

The Trustees reserve the right to reject any or all of the proposals submitted.

GEORGE B. RHOADS, JOSEPH WANGLER, SAMUEL CREGAR, M.D., EDWARD MIEHLING, JOHN C. LIMBECK, Board of School Trustees, Eleventh Ward.

NEW YORK, April 18, 1876.

CHURCH.—Proposals will be received at the German Lutheran Parsonage, No. 213 High Street, Akron, O., until 12 ac., May 8, 1878, for furnishing material and constructing a church editice, complete in all respects in accordance with the plans and specifications and the specifications may be seen and instructions given at the office of the second street, and the secon

German Lutheran Church.

JAIL. — Bids will be received at Troy by Wm. A. Woodson, clerk of the County Court of Lincoln County, Mo., for building a Jail, according to plans and specifications on the in his office, until and including May 8, 1876. Each lidder to present at said time, or before, a certified check, payable to the order of C. W. Jarnin, presiding matice of said court, in the sum of §160; all checks to be returned except that of the successful bidder, and his check also to be returned except that of the successful bidder, and his check also to be returned if he enters into bond within fifteen days, with approved security, in the sum of §15,000, for the faithful execution of the contract, according to said plans and specifications; otherwise to be forfeited. The contract is to be awarded to the lowest and best bidder, the court reserving the right to reject any and all bids.

the right to reject any and all bids.

OLD IRON. — Tenders are invited by the Grand Trunk Railway for the purchase of Old Iron Rails, delivered as follows: about 7,000 tons at Toronto, Sarnia, Detroit Junction, or Buffalo: about 1,000 tons at Montreal or Point Levi (opposite Quebec): about 3,600 tons at Portland. The company has wharfage accommodation for shipment by water at Toronto, Narnia, and Fortland; and deliveries would be made commencing in May, and extending through the summer. Offers, stating the price per ton (of 2,340 lbs.) and the place of delivery, will be received by the undersigned at Montreal, Can., up to the 18th of May.

JOSEPH HICKSON, General Manager.

eries would be made commencing in May, and extending through the summer. Offers, stating the price per ton (of \$240 lbs.) and the place of delivery, will be received by the undersigned at Montreal, Can., up to the 18th of May.

JOSEPH HICKSON, General Manager.

SCHOOLHOUSE. — Proposals will be received until the 1st of May by the Secretary of Laurel Rill Independent School District, Greenfield township (P. O. address Marrelle), for building and completing a schoolhouse in said district. Plans and specifications can be seen at the Eureka office, Anamosa, Iowa, and at Dr. Belden's store, Martelle.

8. C. KEMP, Secretary.

Martelle, March 29, 1876.

MASS. INSTITUTE OF TECHNOLOGY.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Mining Engineers, Architecture, Fraches of Science, and Manager.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Mining Engineers, Architecture, Teaches of Science, and Manager.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Mining Engineers, Architecture, Teaches of Science, and Manager.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Mining Engineers, Architecture, Teaches of Science, and Manager.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Mining Engineers, Architecture, Theorems of Science, and Manager.

This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechancal, and Mining Engineers, Architecture, Civil, Mechancal, and Mining Engineers, Architecture, and Manager.

This school offers a four-years' scientific and professional training for Chemista, and Mining Engineers, Architecture, Civil, Mechancal, and Mining Engineers, Architectu

PROPOSALS.

ROOFING. — Notice is hereby given that the State House Commissioners will receive proposals to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the lantern, and the ornamentation of the Mansard roof, turrets, and dome.

and the ornamentation of the Mansard roof, turrets, and dome.

Separate bids will be received; first, for the roofing and cornice work; second, for the ornamentation.

Each proposal must be accompanied by a good and sufficient bond, with two or more responsible sureties to the State of Illinois, in the prenai sum of \$2,000, conditioned that the principal thereis will, when thereto requested by said Commissioners, other time sections of the state of Illicommissioners, to do the work as proposed: Provided, That a contract be awarded to him by the Commissioners on his proposal.

The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in part, or to receive any bid,

Commissioners on his proposal.

The Commissioners reserve the right to reject all bids, or to reject any bid, the whole or in park, or to receive any bid, the whole or in park, if they shall deem it necessary to secretary to see the proposal.

The plans and specifications of said work may be seen, and printed specifications will be furnished, on application at the office of A. H. Piquenard, Esq., Acting Architect, in the new State House.

All "proposals " must be sealed and indorsed," New State House proposals," and addressed to Jacob Bunn, President, and delivered at the office of the Secretary of the Board, in the new State House, Springfield, Ill., prior to 12 o'clock, noon, May 4, 1876, at which time and place all such proposals received will be opened.

A. H. PIQUENAED, Acting Architect.

JACOB BUNN,
JOHN T. STUART,
JAS. H. BEVERIDGE,
Commissioners.

Springfield, Ill., April 3, 1876.

SCHOOLHOUSE. — Proposals for the erection of a schoolhouse in Sub-District No. 2, and one schoolhouse in Sub-District No. 6, in the township of Cedar, in the County of Mitchell, and State of Iowa, will be received by James Temple, in Sub-District No. 2, and Ole O. Hangerud, in Sub-District No. 6, until 1 o'clock P.M. on Saturday, the sixth day of May. Plans and specific dons will be seen at James Temple's and Ole O. Haugeruf, at Osage, Io. By order of the Board of directors.

SCHOOLHOUSE. — Proposals will be received by me for the building of a schoolhouse in York Township, rama County, fows, until Mo.day, May 1. The specifications can be seen at my office one hair mile west of Rodman.

AMOS ROGLES, Irving, Iowa, Sec. of School District.

ROOFING.—The State House Commissioners will receive proposals until noon of May 4, 1876, to furnish in place, complete, the metallic cornices, caps, and covering of the upper dome, including the iantern, and the ornamentation of the Mansard roof, turrets, and dome. Separate bids will be received: first, for the roofing and cornice work; second, for the ornamentation. The plans and specifications of aid work may be seen, and printed specifications will be furnished, on application at the office of A. H. PIQUENARD, Acting Architect, in the new State House. JACOB BUNN, JOHN T. STUART, JAMES H. BEVERIDGE, Commissioners.

Springfield, ILL., April 3, 1876.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHI-TECT AND BUILDING NEWS."

SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS.

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS, No. 94 Water Street, Boston

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of heat, which insures always a proper condition of the air as to purity, temperature, and relative humidity; perfect circulation and distribution, combined with ready means for adjustment to the varying demands upon the apparatus, dependent upon the state of the weather, and the number of people to be supplied with air. It can be employed as the instrument of ventilation alone, or warming alone, or both together, wholly or partly, and admits of application to apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the security of health, and stake my reputation as a sanitary expert that all my work shall be the roughly done, as well as honestly done. I employ only faithful and skilful mechanics, and rely for success not so much upon methods involving the use of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles of common knowledge.

Among those who have employed me are Alex. S. Porter, R. B. Forbes, Mrs. Bavid Osgood, American Insurance Co., Francia Peabody, A. T. Byrnes. Alexander H. Rice, Wm. Amory, Jun., Samuel H. Russell, S. E. Sewail, A. T. Perkins; A. P. Baker, M. D., Newport; B. Schlesinger, New York.

Frederic Tudor,

Sanitary Engineer.

8 Pemberton Square, Boston. From 10 till 1.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

maide work.

These colors will change less upon exposure, and prove more durable, than pure White Lea 1 l'ainta colored in the ordinary way.

Warranted more Economical,

More Durable and Reliable,

Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland.

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET.

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charses Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

TO ARCHITECTS OR BUILDERS.—A man thoroughly practical, late superintendent on a large estate, with twenty years' experience in building, seeks employment as above. Good knowledge of drawing, building, construction, and erection, in all branches of the work. Highest references. Terms moderate. Address MECHANIC, 842 Washington St., Boston, Mass.

ARCHITECTS.

OFFICES OF FRANK W. WESTON,

(Late WESTON & RAND, 17 Pemberton Sq. Boston.)
ARCHITECT, 173 DEVONSHIRE ST., AND 33 FEDERAL ST.,

GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architects, 17 Pembe ton Sq., Boston.

CHARLES D. WOODBERRY, Architect, JOS. E. BILLINGS, Architect, 33 School Street, Boston.

DANIEL APPLETON, AND H. M. STE-

S. IPSEN, Architect, 29 Pemberton Square, Boston. GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER

86 North St., Boston.

Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York.

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,

ABUHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

E. & G. G. HOOK & HASTINGS,

CHURCH ORGANS.

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.

S. P. TOLMAN & E. A. HUNTING, GENERAL AGENTS. Particular attention of the property of the prop ing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROWFIELD
STREET, BOSTON.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from ur own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WARRHAM STREET



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

oms, 27 Sudbury, and 69 & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed, E. Hixon.

E. Hixon, jur

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY.

158 TREMONT STREET,

CHARLES WOODBERRY & SON.

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications: Fire Insurance Adjusters between Insurance Companies, Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

ANNALS OF A FORTRESS. BY VIOL-ALET-LE-DUC. Translated by BENJAMIN BUCKNALL, Architect. I volume 8vo. Eighty-five illustrations, several in Colors. \$5.66.

, For sale by all Booksellers. Sent postpaid, on receipt of price by the publishers.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

A G E N T S .

Boston.—Parson a Torry, 636 Washingon st. Pitkin Bros. B. Charlestown st. Allen A Noble, 91 Hanover st. Bogman a Vinel, Double of the St. Market of the St. Mar

ur goods can be purchased of the above Agents at the

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,



METAL WORKER,

Escutcheons, Locks, Hinges, Andirons Fenders, Knockers, &c., MADE TO ORDER,

Franklin, corner Centre Street, New York.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BRACON STREET, BEAR TREMONT, BOSTON.

ART FOLIAGE. By J. K. COLLING. 1 vol.
quarto. 72 plates. \$15.00.
** For asle by Booksellers. Sent postpaid, on receipt of
price, by the Publishers.
AMES R. OSGOOD & CO., BOSTON

1876.

1876.

1876.

ESTABLISHED 1888

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP.

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

Office, 10 Travers St., Boston.

JAMES R. OSGOOD & CO., Publishers, Boston. Contractor for Tile Work in

Architectural Sketch-Book.

EDITED BY THE PORTFOLIO CLUB.

FOURTH YEAR.

Pay no money to Travelling Agents. Remit directly to the Publishers by Bank Drast or Post-Office Order, and receive your numbers regularly,

PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

New York Sketch-Book

Architecture.

THIRD YEAR.

PRICE 86 PER YEAR, OR \$5 IF PAID IN ADVANCE.

DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.

ROSEWOOD, etc., WHITE HOLLY, MAHOGANY, THUYA,

suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE WANUFACTURERS.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

Also Tiles

FOR FURNITURE, DECORATION, AND BATHROOM LININGS.

Boston Ornamental Iron Works The American Architect Catalogue of Architectural Books WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING,

IRON CRESTINGS, IRON STABLE FIXTURES,

FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES,

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON.

The New England Cabinet Organ.

NEW ENGLAND ORGAN CO.,

1299 Washington St., Boston, Mass

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by GRORGE M. TOWLE. 1 vol. 8vo. heveled boards, red edges, \$5.00.

JAMES R. OSGOOD & CO., BOSTON.

PAPHAEL PICTURES. A Series of Studies designed and engraved after five paintings by Eaphael. With Historical and Critical Notes by M. T. B. Energic-David, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family "(two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON

LIENARD'S DECORATION AND ORNA-ENTATION. Specimens of the Decoration and Ortation of the Nineteenth Century. By LIENARD. Juced by the Heliotype Process. Upwards of 120, rich in hints to Architects and Decorators. 1 vol. ocards, \$27.00. Half moreoco, cloth sides, \$30.00. JAMES B. OSGOOD & CO., BOSTON.

and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,

181 FRANKLIN STREET......BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 12; cents per line (agate), or \$1.75 per inch (fourteen lines) one

One inch, one month . One inch, three months One inch, nine months. One inch, one year.

On other pages, 10 cents per line each insertion, or \$

per inch.
One inch, one month \$5.60
One inch, three months 16.90

nore than one column in width. MEDIÆVAL FOLIAGE. By J. K. Col-

The Life. I vo. quarte to present a specific section of the sectio

ENGRAVINGS FROM LANDSEER. CNGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the atmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest," "The Monarch of the Glen," "High Life," "Low Life, "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty. Quarto. Price, \$10.00.

Mailed free to any address.

Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,



CHILD-LIFE IN PICTURES. Containing V twenty-four Heliotype Plates, from Corresogio, Cor-Lett, RRYNOLDS, Generge, Lawrences, Muent, o, Genardo, RAPHARL, and other celebrated painters, —forming a series of charming pictures of children and child-life. Price, \$10.00. JAMES R. OSGOOD & OO., Sustron.

TOSCHI'S ENGRAVINGS. From Frescos
by Correggio and Parmegiano. Reproduced by the

YOSCHI'S ENGRAVINGS. From Frescos by Corresponding of Parmediano. Reproduced by the Hellotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agothas, Saint Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Charlot, The Coronation of the Virgin, groups of Cherubs and Angels.
A rare and valuable collection. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON.

LLUSTRATED HOMES. By E. C. GARD-NER. 1 vol. square 12mo. Illustrated. \$2.00.

"Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste along with good sense in at that and the site, the architecture, and cultides sand documents, of houses." Cristian Intelligence (New York).

JAMES R. OSGOOD & CO. Boston.

JAMES R. OSGOOD & CO., BOSTOR.

Franklin Press: Rand, Avery, & Co., Boston.



Vol. I. No. 19.7

BOSTON, SATURDAY, MAY 6, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 227 Walnut Street, Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS., 22 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor." — from Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen FIRE HOSE.

Seamless woven, and able to withstand immense
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS. All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesrom, 339 Washington St.,
BOSFON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BEOAD WAY, NEW YORK,
Quarryman, and Wholesale Dealer in
BUILDING STONE.

OHIO STONE, FROM BERLIN, AMHREST, AND BEREA QUARRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN CSE.
S. W. FULLER,
63 Devonshire Street, Boston.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 10 Province Street, Boston.

ng or-ep, ries rto. on.

cos the

the els.

OH.

RD-

WINDOW VENTILATORS. — WHITE'S
PATENT sapplies pure air, without dust or coal
draughts. Easily adjusted to large or small rooms. Should
be examined by Architects and Bulders. W. H. KIMBALL, Agent, 120 Tremont Street, Boston.

GEO. F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTON.

GALVANIZED IRON CORNICES, Campbell's Patent VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Cape, &c.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND YENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACT BLITING FOR ELEVATORS, HOSE OF Lines, Leather, and Rubber. HENRY C. HUNT & Street, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Propries of the property of th

comings under wooden or iron beams, in the following buildings:

Western Union Telegraph, Det. and Hudson Canal Co., Statz Zeitung, Equitable Life Assurance, Hudson B. R.B. Fr'ght Depot, Wil'mab's Savings Bank, Columbia College, Windsor Hotel, Syracuse Savings Bank, Columbia College, West Point Military Hospital, Tribune, Peabody Museum. Tribune, Peabody Museum. Site. Side Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Frod work is the only and the Superintendent of Buildings, after severe publiclests.

LEONARD F. BECKWITH, President.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION BOPE ELEVATOR,

ne only safe and reliable machine made for Passenger use Public Buildings and Hotels, and for business purposes in archouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 2 Park Place, New York.

OTIS TUFTS, L. A. BIGELOW, President. Treas'r and Gen'i Manager.

CAPE ANN GRANITE COMPANY GRANITE. BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING. 40 WATER ST., BOSTON.
QUARTICS: BAY VIEW, GLOCKETER, MASS.
JONAS H. FRENCH. Fres.

SCOTT WEBBER, Supt.

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS, Importers of BOOFING PLATES
AND IRON, USED IN BUILDINGS.

Exclusive Boston Agents for the sale of The Union
IRON MILLS Solid WROTGHT IRON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 18,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

HENRY B. JONES & CO.
Importera, Jobbers, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT BOOFING COMPANY, 17 Central Street, Boston.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON, GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, PUNNEL STONES, &C. BENJ. NOYES, Agent.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

JAMES EDMOND & CO.

MANUFACTUREDS AND IMPORTERS OF

FIRE BRICK AND TILE,

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS, WHARP, 394 FEDERAL STREET, BOSTON

(Just South of Kneeland St.)

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to elseping room. Alarm siven if wire is cut or tampened with, or entrance made. Sure thing. W.M. A. BARNES, 99 WATER STREET, BRIDGEFORT, COSE.

J. CARTISSER, (ESTABLISHED 1858).
OBNAMENTAL, EMBOSSED, AND CUT GLASS,
POB HOUSES, STEAMBOATS, EAILBOAD CARS,
OFFICES, &c., No. 26 Wost 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, Buildinga piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PERBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND DUBLIC BUILDINGS, NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
SO. 9 HAMILTON PLACE,
Opp. Fark-Street Church,
Bostor.

WARNER BAILEY, Sign and Ornamental

PROPOSALS.

PROPOSALS FOR WROUGHT AND

CAST IRON WORK.

U. S. CUSTON HOUSE AND POST OFFICE.

FALL BYONE, MASS.

OFFICE OF SUFERIFIEDERT, MAY 3, 1898.

Sealed proposals will be received at this office until 12, w., of the Mth day of May, 1878, for furnishing, delivering, sitting, and putting in place the Wrought and Cast Iron Work, compassing the decent will be the state of the compassing of the decent will be the state of the compassing of the Beams, &c., in First and Second Floors, compassing the Beams, &c., in First and Second Floors, and called for in the schedule.

Copies of the drawings described in the specification, and called for in the schedule.

Copies of the drawings, specification, schedule, and form of proposal, and any additional information, may be had on application at this office.

EDWARD T. AURON.

EDWARD T. AVERY,

FIXTURES AND HARDWARE. Propasals will be received by the Commissioners of Construction of the Central Ohio Hospital for Insane, until 2 o'clock, noon, Thursday, May II, 1876, for the Gas Fixtures for the entire building, and Locks. Boils, and Latches, for eight wings of Asylum building. Plans, specifications, and blanks are now on file at the office of the Architect upon the Asylum grounds, for the inspection of bidders. All bids must be scaled, and directed to Geo. W. Many penny, Esq., President of the Board of Commissioners, Columbus, Ohio, and Indorsed "Proposals for Locks, etc.," is a proposal for the Architect. By Carlotte Board. T. B. TINSLET, Architect, Columbus, Ohio.

TRON LIGHTHOUSE. Proposals in duplicate will be received at the office of the Lighthouse Engineer, Fourth District, No. 532 Wainut 8t., Philadelphia, until 12 o'clock, M. Monday, May 15, 1875, from Iron Manufacturers only, for furnishing all the metal work of superstructure, and for the erection of the same, of two Lighthouses, to be known as Liston's Tree Range Lights, Delaware Bay. The right to reject any or all proposals, or to waive defects, if it is deemed for the interest of the United States to do so is re-erved. Drawings and specifications furnished on an dication at this office. By order of the Lighthouse Board. W. F. RAYNOLDS, lirevet Brigadier General, Engineer Fourth Lighthouse District.

SCHOOLHOUSE. Proposals will be received by the Board of Directors of the Independent School District of the city of Burlington, Iowa, for the erection of a two-story addition to the "Weat Madison" School House, until 9 o'clock, A. M., of May 20, 1576, according to plans and specifications which will be ready for inspection at the office of the Secretary, in Parson's Block, on and after April 25. Separate bloss with also be received for window blinds for the whole building. All bloss must be signed by the party proposing to do the work, securely addition." or "Proposals for Blinds," and cellvered to the Secretary before the hour above fixed. By order of the Board. GEO. FRAZEE, Secretary.

CHURCH.—Proposals will be received at the German Lutheran Parsonago, No. 213 High Street, Akron, O., until 12 m., May 8, 1876, for furnishing material and constructing a church edifice, complete in all respects in accordance with the plans and specifications. Flans and specifications may be seen and instructions given at the office of Mr. Frank Lukesh, in Cramer & May's Block, on and after April 17, 1878.

W. HAGEMANN, G. HAAS, F. MANTHEY, Trustees of German Lutheran Church.

JAIL. — Bids will be received at Troy by Wm. A. Woodson, clerk of the County Court of Lincoln County, Mo., for building a Jail, according to plans and specifications on file in his office, until and including May, 1878. Each bidder to present at said time, or before, a certified check, payable to the order of C. W. Martin, presiding justice of said court, in the sum of \$100; all checks to be returned except that of the successful hidder, and his check also to be returned of the enters into bond within fifteen days, with approved accurity, in the sum of \$15,000; for the faithful execution of the contract, according to said plans and specifications; otherwise to be forfeitled. The contract is to be awarded to the lowest and best hidder, the court reserving the right to reject any and all bids.

OLD IRON. — Tenders are invited by the Grand Trunk Railway for the purchase of Old Iron Rails, delivered as follows: about 7,000 tons at Toronto, Sarnia, Detroit Junetion, or Buffalo: about 1,000 tons at Montreal or Point Levi (opposite Quebec): about 3,000 tons at Portland. The company has whartage accommodation for shipland. The company has company to the company has company to the company has a company to the c



J. & R. LAMB,

59 Carmine St., New York

CHURCH FURNITURE

Workers in Wood, Metal and Stone for Church p Eclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decorat 10 cts. | 10 cts.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and the Course is Abcultracture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

design.
Special students in Architecture are received into a two
years' special course.
For particulars address William R. Ware, Esq., Pro
fessor of Architecture, or Dr. Samuel Kneeland, Scoretary
Bostow, Fob. 1, 1876.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 10mmo. \$1.50.

PROPOSALS.

A New Range, designed for French Flats and Small Families,

BOYNTON'S

(Having a top surface 38 × 23 inch, fitted for 2 in. 9 [lines

THE MOST COMPLETE AND CONVENIENT RANGE IN USE.

HAS EXTRA SIZE OVEN (18 × 16), LARGE HOT CLORETS.

(LOWER OR ELEVATED) LARGE FLUES, ASH-PAN, AND ALL MODERN IMPROVEMENTS. ATTRACTIVE AND BEAUTIFUL IN DESIGN. SEND

FOR CIRCULARS.
Richardson, Boynton & Co.,
284 Water Street, N. Y.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS. Drain and Sewer Pipe, Pire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement.

WALDO BROTHERS.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

CENTENNIAL NUMBER

NORTH AMERICAN REVIEW

FOR JANUARY, 1876.

or of the REVIEW is devoted to a careful and history of the country in certain cardinal inter-e century, 1776-1876, as follows:

This number of the REVIEW is the continuous of the contract of

ARCHITECTS.

OFFICES OF FRANK W. WESTON, Late Weston & RAND, 17 Pemberton Sq. Boston, ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., BOSTO

GRIDLEY J. F. BRYANT AND LOUIS P. BOGERS, Architects, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architecta, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 98 water Street, Boston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 468 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Beston, and Concord and Manchester, N.H. Offices, 10 Canal Street.
Public Buildings a specialty. Estimates given.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of heat, which insures always a proper condition of the air as to party, temperature, and relative hundrity; perfect circulation and distouction, combined with ready means for all the state of the state of the weaken, the apparatual dependent upon the state of the weaken; the state of people to be supplied with air. It can be employed as the instrument of ventilation alone, or warming alone, or both together, wholly or partly, and admits of application to apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic water-works with a view to the security of health, and stake my reputation as a sanitary expect that all my work shall be thoroughly done, as well as honestly done. I employ only aithful and skilful mechanics, and rely for success not so much upon methods involving the use of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles of common knowledge.

Among those who have employed me are Alex. S. Porter, and the subsequent watchful supervision, as upon the intelligent application of the principles of common knowledge.

Among those who have employed me are Alex. S. Porter, Francis Peabody, A. T. Byrnes, Alexander H. Blee, Wm. Amory, Jun., Samuel H. Russell, S. E. Sewall, A. T. Perkins; A. P. Baker, M. D., Newport; B. Schlesinger, New York.

Frederic Tudor.

Sanitary Engineer.

5 Pemberton Square, Bosto From 10 till 1.

TO ARCHITECTS and BUILDERS.

Bay State Colors.

These colors will change less upon exposure, and prove oure durable, than pure White Lead Paints colored in the dinary way.

Warranted more Economical,

More Durable and Reliable,

Than any Paints ever before offered.

Manufactured by

Wadsworth Bros. & Howland,

Importers and dealers in Paints, Oils, and Chemicals.

Manufacturers of Varnishes and Japans.

34 INDIA STREET,

BOSTON.

Agents for John W. Masury & Son's Fine Colors, Charles Paim & Co.'s Transfer Ornaments, California Pumice Stone, Reno's French Umber, and Atlantic Lead.

TO ARCHITECTS OR BUILDERS. - A man thoroughly practical, late superintendent on a large estate, with twenty years' experience in building, seeks employment as above. Good knowledge of drawing, building, construction, and erection, in all branches of the work. Highest references. Terms moderate. Address MECHANIC, 842 Washington St., Roston, Mass.

CHOICE HELIOTYPE BOOKS.

PLAKE'S BOOK OF JOB. Illustrations by of the Book of Job. By WILLIAM BLAKE. Reproduced by the Heliotype Process from the "Gray Collections for the Engravings." Twenty-two Plates. With Blographical Sketch of William Blake, and Descriptions of the Engravings, by CHARLES ELIOT NORTON. Quarto. Price, \$10.00.

The unique character of these designs, and the very interesting contribution of Mr. Norton, give special value to this volume.

CALLERY OF GREAT COMPOSERS.

A Series of Portraits Engraved on Steel, from Oil
Paintings by Prof. Carl Jacks. Finely reproduced by the
Heliotype Process. With Blographical and Critical Notices
by EDWARD F. RIMBAULT, LL.D., member of the Royal
Academy of Music in Stockholm. Quarto. Price, \$10 00.

This sine gallery includes Portraits and Sketches of Bach,
Handel, Glück, Haydn, Mozart, Beethven, Schubert, Von
Weber, Mendelssohn, Schumann, Meyerbeer, and Wagner.

CROSSING THE ATLANTIC. Oblong CAUCISING THE ATLANTIC. Oblong "This volume depicts, in the most charming manner, the varied aspects of ship-board life, the amusements of the passengers, their adventures, trials, and absurd performances; and even sea-sickness has a indicrous side presented, that aimset robs it of its terrors; while not the least amusing feature of the book is the fictitious list of passengers. Both of a hearty laugh over the genial pages of this book."—College Courant.

HAY FEVER. Illustrated by twenty-four drawings. Oblong folio. \$2.00.

They are full of spirit, and depict with much humor the source for the spirit of the s

. For sale by all Booksellers. Sent postpaid, on receipt of price, by the Publishers,

Parlor Grates.

FOR HEALTH AND COMFORT.



Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft cost, or wood. The finest assortment in New England. Also, Creamer's Convox Side-Wall Registers prevent walls being discolored by furnace-heat. Floor Registers, on the lever movement, prevent dirt and sweepings ever clogding them. Celling

H. M. CREAMER

86 North St., Boston.

ser Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery.

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK.

E. & G. G. HOOK & HASTINGS.

CHURCH ORGANS.

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS. AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Renta,
MORTGAGES XEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from ar own patterns, or from architects' drawings.
29 DOCK SQUARE, BOSTON,
MANUPACTORY 19 WAREHAM STREET



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

oms, 27 Sudbury, and @ & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon, Fred. Reed,

E. Hixon, jur

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET.

BOSTON.

CHARLES WOODBERRY & SON.

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Ivetail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies Owners or Occupanis, in case of Fire or Damage; Estimate-given for all Trades in Building, &c.

ANNALS OF A FORTRESS. BY VIOL-LET-LE-DUC. Translated by BEBJAMIR BUCENALL, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

, For sale by all Booksellers. Sent postpaid, on receipt of price by the publishers,



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS

A G E N T S.

Bostom.—Parsons & Torre, 80% Washingon st; Pitkin Bros.
5 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal,
Dock sq; Fatless & Boynton, 13 Corahlit; Gardner & Chandler,
22 Washington st; B. L. Solomon & Sons. 49 Franklin street.
23 Washington st; B. L. Solomon & Sons. 49 Franklin street.
New York City.—A. Hammacher & Co., 399 Bowery; B. J. Tillotton & Co. 8 Bey st; O. A. Nathusius, 229 Bowery; B. J. Colomon & Sons. 69 Broadway; E. R. Krumm, 121 Essex street;
has. E. Kuger, 19 Division at, Speyer Bros. 19 Bowery; W. F. A. Hanna, C. Kuger, 19 Division at, Speyer Bros. 19 Bowery; W. F. A. Hanna, C. M. Lee, 19 N. Y.—Hermsun Weber, 134 Graham av.
Albany.—Maurice E. Vicle, 48 State.
Rochester.—Pollock, Weaver, & Co., 17 Buffalo &
Buffalo.—C. H. Utley, 22 Pear; st.
Philadelphia.—Thomas Thompson, Sons, & Co., 349 S. 26;
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Nobill, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st; B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st. B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st. B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st. B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st. B. L. Middleton, 817
Noblit, Brown, Noblit, & Co., 226 S. 26 st. B. L. Middleton, 81

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,



METAL WORKER,

cutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c.,

MADE TO ORDER, Franklin, corner Centre Street, New York.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, SEAR TREMONT, BOSTON.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 pastes. \$15.00.

** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON

New York Sketch-Book Architecture.

THIRD YEAR. 1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

ESTABLISHED 1888.

Palmer, Parker, & Co.

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT. BIRD'S EYE MAPLE. HUNGARIAN ASH. SATIN. WHITE HOLLY. MAHOGANY.

In Loge, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS: PATENT SIX. Jennings' Patent Water Closets Jennings PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinais, Private Urinais, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS.



Contractor for Tile Work in

DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

No. 170 TREMONT ST., BOSTON.

MANUPACTURE ALL KINDS OF

WROUGHT AND CAST IRON For Building

IRON AND WIRE RAILING,

IRON CRESTINGS. IRON STABLE FIXTURES,

FOUNTAINS,

VASES,

GARDEN STATUARY, WEATHER VANES, AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work. Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILE STREET, BOSTON.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by GROBGE M. TOWLE. 1 vol. 8vo. bevoked boards, red edges

JAMES E. OSGOOD & CO., BOSTON.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nieteenth Century. By Lienard. Reproduced by the Heliotype Process. Upwards of 180 designa, rich in hints to Architects and Decorators. I vol. folio, boards, \$27.00. Half morocco, cloth sides, \$30.00.

Boston Ornamental Iron Works The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS.

181 FRANKLIN STREET......BOSTON

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING.

one inch, one month . . One inch, three months . On other pages, 10 cents per li One inch, one month

Franklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural Books

Mailed free to any address.

Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS.

27 WARREN STREET, NEW YORK.

CHILD-LIFE IN PICTURES. Containing Utwenty-four Heliotype Plates, from Corneaguo, Ext., REYFOLDS, GREUER, LAWRENCE, MURILLO, GREAPHAEL, and other celebrated painters, —forming as of cherming pictures of childdien and child-life. Quirice, \$10.00. JAMES R. OGGODD & CO., Bos







Vol. I. No. 20.7

BOSTON, SATURDAY, MAY 13, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Boston, New York, Philadelphia.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS, As laid by us in

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every

And in numerous Churches, Banks, and Dwellings in every part of the Country. Glazed and Enamelled Tiles for Mantels, Hearths, Wain-scoting, &c., and for Exterior Decoration. MILLER & COATES, 279 PEARL STREET, NEW YORK.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., & Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recom-mendations in its favor." — Iroa Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamiess woven, and abl: to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pjoes should have it.
—Send for Circulars.—
ROBERT GEMS, Tress.—Salercom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in BUILDING STONE, OBIO STONE, FROM BERLIN, AMHERST, AND BERBA QUARRIES Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS.

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Bosto

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure sir, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought I fron Pipes and Fittings. No. 99 Kilby St., Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:

ceilings under wooden or Iron beams, in the following buildings:—
Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Hudson R. R.B. Fr'ght Depot, Wil'mab'gh Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baitimore Safo Deposit, Insurance on Wooden Mansards reduced ninety cents per 5100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in logeneous Boller and Fire-Box Plates, Plate, Sheet, Pig. nd Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Ancle and T Iron, Boller and Tank Rivets, Lap-Welded Iron Boller Tubes,

Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS" PATENT" COMBINATION ROPE ELEVATOR,

the only safe and reliable machine made for Passenger n Public Buildings and Hotels, and for business purposes Varehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 2 Park Place, New York.

OTIS TUPES, President.

L. A. BIGBLOW, Treas'r and Gen'l Manager.

CAPE ANN GRANITE COMPANY
GRANITE, BUILDING, GRIDONOUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOUCESTER. MASS.
JONAS B. FERNCH, SUPPLY, GROWN, GLOUCESTER. MASS.
SCOTT WEBBER, Supt.

HENRY B. JONES & CO. I B. JUNES & CU.
Importers, Jobbers, and Retailers of
PAPER HANGINGS,
612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, ANE GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLET STEER, BOSTON, GLAZED SEWER, DRAIN, AND WATER FIFE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOTES, Agent.

C. H. HALL, Stair Builder, and Manufac ton. Posts, Rails, Balusters, & Office Rails, furnished to order

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

FIRE CLAY GOODS,

FIRE BRICK AND TILE.

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARF, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watchea isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered ith, or entrance made. Sure thing, WM. A. BARNES, 99 WATER STREET, BRIDGEPOET, CONN.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILFOAD CARS,
OFFICES, &C., No. 28 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. NO. 134 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Boston.

WARNER BAILEY, Sign and Ornamental

BUILDERS' STPPLIES.

TULLER, DANA, & FITZ,
110 NORTH STERRY, BOSTOR.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLEY Solid WROUGHT IRON BRAMS, and THE
"BURDEN BREY" IRON, Tensile Strength 78,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
III AND 119 COLET STREET,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Cape, &c SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUACTOR

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER. 16 Province Street, Boston.

PROPOSALS.

PROPOSALS FOR WROUGHT AND

U. S. CUSTOM HOUSE AND POST OFFICE

OF SUPERINTENDENT, MAY 3, 1876. Sealed proposals will be received at this office until 12, M., of the 24th day of May, 1876, for farmishing, delivering, fitting, and putting in place the Wrought and Cast Iron Work, comprising Rolled Beams, &c., in First and Second Floors, and Cast-iron Columns, Pilasters, &c. of First Story, all as exhibited on the cast wings described in the specification, Copies of the drawings, apecification, control of proposal, and any additional information, may be had on application at this office.

EDWARD T. AVERY,

TRON LIGHTHOUSE. Proposals in duplicate will be received at the office of the Lighthoue Engineer, Fourth District, No. 532 Walnut 8t., Philadelphia, until 12 o'clock, M., Monday, May 15, 1876, from Iron Manufac: urers only, for furnishing all the metal work of superstructure, and for the erection of the same, of two Lighthouses, to be known as Liston's Tree Range Lights, Delaware Bay. The right is reject any or all proposals, or to waive defects, if it is deemed for the interest of the United States to do so, is re-erved. Drawings and specifications furnished on application at this office. By order of the Lighthouse Board. W. F. RAYNOLDS, i revet Brigadier General, Engineer Fourth Lighthouse District.

Idehthouse Board. W. F. RAYNOLDS, 'revet Brigadier General, Engineer Fourth Lighthouse District.

STATE PENITENTIARY. — The undersigned commissioners under an act of the State of Texas, approved February Is, hereby advertise for propensity of plans, specifications, and other particulars, for the proper and substantial building and completion of two penitentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the best for the beatin and comfort of the convicts. One of said penitentiaries to be built about two miles north of Rusk, in Cherokee County, which a view of utilizing in manufacture of the total public at the bead of the San Marcos River, in Hayee County, in contemplation of the manufacture of cotticn, wool, leasher, and other goods and fabrics, that will not come into competition with the personal industries of the mechanical professions. Said penitentiaries are to be completed by the first day of July, 1877; and parties making proposals of plans, &c., for both of either of said penitentiaries, will state upon what terms and for what amounts they will baild the same, and will, in connection with said proposals, furnish due guaranties of their abilities to build and complete the same in accordance with sach plans, &c., and by the time limited. E. L. Greger Rusks, or Gen. Ed. Burbellout and all proposals will be addressed to E. L. Gregg, at Rusk, Cherokee County, Texas. The commissioners expressly reserve the right to reject any and all proposals, and her by give notice that no compensation will be made for any proposals, plans, &c., which may be submitted under this advertisement. W. W. LANG, E.D. BURLESON, B. W. BROWN, E. G.REGG, Commissioners.

TIFE SAVING STATION HOUSES. LIFE SAVING STATION HOUSES.—Proposals will be received at the Treasury Department in
Washington, D.C., until 12 o'clock, n., of Tuesday the 23th
of May, for the construction of life-saving station houses at
the following named points on the coast of Lake Superior;
to wit, one at Yermilion Point, one at a place seven miles
we shall be superior of the state of the seven miles
of the state of the state of the seven miles
we state the state of the state of the seven miles
or success the state of the seven miles
or success the state of the seven miles
or success the success the success the seven miles
or success the success the success the seven miles
or success the success the success the seven miles
or success the success the success the seven miles
or success the success the success the seven miles
or success the success the

STATE REFORM SCHOOL - The trus tees of the lows Reform School hereby give notice that they intend to erect a main building for said school, and will receive bids for three hundred thousand or more brick of best quality delivered in Eldora; two hundred or more brick of best quality, delivered in Eldora; two hundred or more logal perch of best quality nondation-stone, dilvered at Eldora or at quarry; also the price per M of the various kinds of lumber necessary for such building; all to be delivered as above will be received until May 31, at which time they will be opened and examined. J. A. PARVIN, President. T. E. CORKHILL, Secretary.

PROPOSALS.

SCHOOLHOUSE. Proposals will be received by the Board of Directors of the Independent School District of the city of Burlington, Iowa, for the erection of a two-story addition to the "West Madison" School House, until 9 o'clock, A. M., of May 20, 15%, according to plans and specifications which will be ready for in ing to plans and specifications which will be ready for in my to the supplied of the control of

OLD IRON. — Tenders are invited by the Grand Trunk Rallway for the purchase of Old Iron Ralls, delivered as follows: about \$1,000 tons at Teronto, Sarnis, Detroit Junction, or Burfalo: about \$1,000 tons at Montreal or Point Levi (opposite Quebec); about \$3,000 tons at Portland, The company has wharfage accommodation for shipment by water at Toronto, Narnis, and Portland; and delivement by water at Toronto, Narnis, and Portland; and deliver through the summer. Offers, staing the price per ton (of 2,240 lbs.) and the place of delivery, will be received by the undersigned at Montreal, Can. up to the 18th of May.

JOSEPH HICKSON, General Manager.

YALE LOCKS,

"STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

No. 53 Chambers Street, New York.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERN Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, BOSTON

A New Range, designed for French Flats and Small Families.

PROVIDENT. BOYNTON'S

(Having a top surface 38 × 22 inch, fit ed for 2 in. 9 lines jamb.)

THE MOST COMPLETE AND CONVENIENT RANGE IN USE.

HAS EXTRA SIZE OVEN (18 × 16), LARGE HOT CLOSETS.

(LOWER OR ELEVATED) LARGE FLUES, ASH-PAN, AND ALL MODERN IMPROVEMENTS.

ATTRACTIVE AND BEAUTIFUL IN DESIGN. SEND FOR CIRCULARS.

FOR CIRCULARS Richardson, Boynton & Co.,

284 Water Street, N. Y.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

Warming and Ventilating

Apparatus for all classes of Buildings.

The only system employing ordinary sources of best, which insures always a proper condition of the air as to purity, temperature, and r-lative humidity; perfect circulation and distribution, combined with ready means for adjustment to the varying demands upon the apparatus, dependent upon the state of the weather, and the number of people to be supplied with air. It can be employed as the instrument of ventilation alone, or warming alone, or both together, wholly or partly, and admits of application to apparatus in use.

Plumbing and Draining.

I undertake to design, construct, or repair domestic waterworks with a view to the security of health, and stake my repair with a view to the security of health, and stake my repair with the stake of novel and complicated contrivances requiring subsequent watchful supervision, as upon the intelligent application of the principles of common knowledge.

Among those who have employed me are Alex. S. Porter, R. B. Forbes, Mrs. David Osgood, American insurance Co., Francis l'eabody, A. T. Byrnes. Alexander H. Rice, Wm. Amory, Jun., Samuel H. Russell, S. E. Sewall, A. T. Perkins; A. P. Bisker, M.D., Newport; B. Schlesinger, New York.

Frederic Tudor,

Sanitary Engineer.

5 Pemberton Square, Bosto From 10 till 1.



MASS. INSTITUTE OF TECHNOLOGY, sional training for Chemista, Metallurghis, Civil, Mechanical, and Mining Engineers, Archite t, Teachers of Science, and Manufacturers.

The Course in Abechitecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

rehitectural history, and the constant practice of original lesign.

Special students in Architecture are received into a two-rears' special course.

For particulars address William R. Warr, Esq., Pro-essor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.



J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purposes exclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decorations 10 cts.

TO ARCHITECTS OR BUILDERS. - A man thoroughly practical, late superintendent on a large estate, with twenty years' experience in building, seeks employment as above. Good knowledge of drawing, building, construction, and erection, in all branches of the work. Highest references. Terms moderate. Address MECHANIC, 842 Washington 8t., Boston, Mass.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late Weston & Rand, 17 Pemberton Sq. Boston.) Architect, 178 DEVONSHIRE St., AND 23 FEDERAL St., BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS P. ROGERS, Architects, 17 Pemberton 8q., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

440 TREMONT STREET, BOSTON, MASS.

MABEL MARTIN. A Harvest Idyl. By John G. Whittier. 21 lilustrations. 16muo. \$1.50. Popular Edition. 21 lilustrations. 16muo. \$1.50. Land Street. Boston. Additional street. Boston. Boston. Additional street. Boston. Bos

Parlor Grates.



H. M. CREAMER.

86 North St., Boston.

ser Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Be A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS, 27 WARBEN STREET, NEW YORK.

E. & G. G. HOOK & HASTINGS,

CHURCH ORGANS

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



The Rogers Patent Wooden Honses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Breadway, N.Y.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leading Estates and the Collection of Renta.
MORTOAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

BURDITT & WILLIAMS.

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

oms, 27 Sudbury, and 69 & 71 Portland Streets, Boston

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

(New No. 364.) 180 Washington St.,

BOSTON.

Fred. Road.

E. Hixon.

E. Hixon, jun

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY,

158 TREMONT STREET.

BOSTON.

CHARLES WOODBERRY & SON,

MASONS,

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors, Architectural Plans, Detail Drawings and Specifications: Fire Insurance Adjusters between Insurance Compa-iea, Owners or Occupants, in case of Fire or Damage; Estimates given for all Trades in Building, &c.

ANNALS OF A FORTRESS. BY VIOL-LET-LE-DUC. Translated by BENJAMIN BUCKHALL, Architect. I volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

. For sale by all Booksellers. Sent postpaid, on receipt of price by the publishers.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS

à Torry, 636 Washingon at; Pitkiu Bros.

a Noble, 94 Hanover at; Bogman à Vinal,

be to combil; Gardner à Chandler,

L. Solomon à Sons, 49 Franklin street.

L. Belcher Bros. 27 Weybonset at.

y.—A. Hammacher à Co.. 209 Bowery;

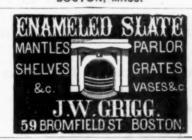
by at; O. A. Nathusius, 278 Bowery; B. Le

by at; O. A. Nathusius, 278 Bowery; B. Le

Philadelphia. — Thomas Thompson, Sons, & Co. 200 S. 2d.; thobili, frown, Noblit, & Co. 222 S. 2d.; B. L. Middleton, & Y. v. 2d.; the J. L. Solomon & Sons, 31 N. 2d. et; F. A. Bueren, & S. Lauphin et; Thomas Knight & Co., cor. Ridge ave, and Green et. Pittaburg. — Joseph Woodwell & Co., cor. 2d ave, and Wood et. Baltimore. — C. Sidney Norris & Co., 3d Hanover et; John Juer & Sons, M. South Charles et; Warfield & Bohr, & So. Sharp et. Cleveland, & D. — George Worthington & Co., 3d Water et; Win. Bingham & Co. 18 Water & Kuhlman, 534 Main et; J. La. Wayee & Son., 128 Maiter & Kuhlman, 534 Main et; J. La. Wayee & Son., 128 Maiter & Kuhlman, 534 Main et; J. La. Chierago. — J. L. Wayne & Son., 74 Randolph et; A. A. Ullrich & Co., 16 Fifth ave; J. Liebeustein & Co., 22 Randolph et. Buhl, Ducharme, A. Co., 123 Woodbridge etreel. St. Lomis. — Geo. A. Rubelmann & Sons, 410 Market street. Montreath. — Jamee Walker & Co., 165 N. Jances & Montreath. — Jamee Walker & Co., 150 N. Jances et. Montreath. — Jamee Walker & Co., 150 N. Jances et. Montreath. — Jamee Walker & Co., 150 N. Jances et. Chuebec. — S. J. Shaw & Co., 75 N. Jances et. Chuebec. — S. J. Shaw & Co., 75 N. Jances et. Chuebec. — S. J. Shaw & Co., 75 N. Jances et. Chuebec. — S. J. Shaw & Co., 75 N. Jances et. Chuebec. — S. J. Shaw & Co., 75 N. Jances et. Chuebec. — S. J. Shaw & Co., 75 N. John et. Hamilton, Ont. — Wateon & Thompson, 18 McNab et. — SP Our goods can be purchased of the above Agents at the

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,



METAL WORKER,

Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c., MADE TO ORDER,

Franklin, corner Centre Street, NEW YORK.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CARINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NEAR TREMONT, BOSTON.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

**For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON

New York Sketch-Book Architecture.

THIRD YEAR. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

ESTABLISHED 1838.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEER

TULIP. FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, ROSEWOOD, etc., MAHOGANY, WHITE HOLLY, THUYA,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS



ENNINGS PATENT SIX- Jennings' Patent Water Closets Ennings PATENT PERSON URINAL.

Patent Slep and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrinea, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbors' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION, AND BATHROOM LININGS.



Contractor for Tile Work in

DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
PIRE-PLACE LININGS, HEARTHS, AND HALL, VBSTIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IBON AND WIRE RAILING,

IRON CRESTINGS.

IRON STABLE FIXTURES, FOUNTAINS,

GARDEN STATUARY,

WEATHER VANES,

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue

BUBIER & COMPANY,

118 MILK STREET, BOSTON.

THE STORY OF A HOUSE. BY VIOL-LET-LE-DUC. Illustrated by the Author. Translated by GB-BGE M. TOWLE. 1 vol. 8vo. beveled boards, red edges, \$5.06.

JAMES R. OSGOOD & CO., BOSTON.

LIENARD'S DECORATION AND ORNA-TATION. Specimens of the Decoration and Orion of the Sincteenth Century. By LIEXARD. ed by the Heliotype Process. Upwards of John in hints to Architects and Decorators. I vol. dis. \$27.09. Half moroco, cloth sides, \$30.09.

JAMES R. OSGOOD & CO., BOSTON.

Boston Ornamental Iron Works The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS.

181 FRANKLIN STREET BOSTON

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART. DEVOTED TO THE INTERESTS OF ARCHI-

TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 12; ents per line (agate), or \$1.75 per inch (fourteen lines) one

one inch, one month On other pages, 10 cents per line each insertion, or \$ per inch.

One inch, three months
One inch, three months
One inch, one year
No extra charge for cuts, or for advertisement of the unit of

Franklin Press: Rand, Avery, & Co., Boston

Catalogue of Architectural Books Mailed free to any address.

chitectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK.

CHILD-LIFE IN PICTURES. Containing V twenty-four Heliotype Plates, from Corkeggio, Oct. Lev. REYNOLDS, GREUZS, LAWRENCE, MURILLO, GREIN RAPHAEL, and other celebrated painters,—forming a set of charming pictures of children and child-life. Price, \$10.00. JAMES E. OSGOOD & CO., BORY





Vol. I. No. 21.7

BOSTON, SATURDAY, MAY 20, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Boston. New York. Philadelphia.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

FIRE CLAY GOODS,

FIRE BRICK AND TILE,

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS, WHARP, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 22 Beekman Street, New York.

"The great strength of this pipe will make it a favorite it all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor."— from Age.

EW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
BOBERT GEMS, Tress.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in BUILDING STONE, 0 STONE, FROM BERLIN, AMBERST, AND BEREA QUARRIES. Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN USE.
S. W. FULLER,
SDevonshire Street, Boston.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 647 Washington St., BOSTON.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 126 Tremont Street. Boston.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND WENTLATING APPARATUS. Gas Lighting Apparatus. BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & Wrought Iron Pipes and Fittings. No. 49 Kilby St., Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, unliting rength, and resistance to first and water. The Hiddrau lamb of Tell (France), one of the strongest cements known, largely used in this manufacture. The blocks do not make the known, cold, or sound, and weigh sixty per cent less much the known to the cent less than the cold, or sound, and weigh sixty per cent less than the cold, or sound, and weigh sixty per cent less than the cold, or sound, and weigh sixty per cent less than the cold, and the cold, and the cold is the cold of the

an brick.

Fire-proof partitions, floor arches between iron beam
beams, in the following

weinings under wooden or iron beams, in the followin-buildings:

Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Willimsbig Savings Bank, Columbia College, Syracuse Savings Bank, Columbia College, Editmore Saf Deport, Insurance on Wooden Manards reduced ninety cents per \$100. Sidewalks laid at Lenox Library, Tribune. Peabody Museum. Tribune. Peabody Museum. Tribune. Peabody Museum. College Western Side Sidewalks laid at Lenox Library, Tribune. Acc. Hollow Bricks of all kinds. Our Fire-Frod work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

JOHN H. REED & CO. IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet and Railroad Iron, Wrought Iron Girder, Channel, a: Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS" PATENT" COMBI-NATION ROPE ELEVATOR,

The only safe and reliable machine made for Passenger in Public Buildings and Hotels, and for business purpose Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 2 Park Place, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'i Manager

CAPE ANN GRANITE COMPANY

—Furnish—
GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING. 40 WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOCCESTER, MASS.
JOEAS H. FRENCE, Pres.
SCOTT WEBBER, Supt.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St., Boston. GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLEY STREET, BOSTON, GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNKEL STONES, &c. BENJ. NOYES, Agent.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos-ton, Posts, Rails, Balusters, & Office Rails, furnished to order.

BUILDERS' SUPPLIES

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

WROUGHT-IRON BRIDGES AND ROOFS.

ELECTRIC ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH WATCHES IN THE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is out or tampered with, or entrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BRIDGEFORT, CONN.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &c., No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACH INE, and make your own gas. Boston Office, 117 & 115 Court St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTOM.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HABILTON PLACE,
Opp. Park-Street Church,
Boss BOSTON

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

PLANS OF THE NEW YORK STATE

Messrs. J. R. OSGOOD & CO. have on hand a limited number of sets of Heliotypes of the designs of the Advisory Board for the completion of the new State Capitol at Albany. These copies, which are the same as those issued with No. 11 of the AMERICAN ARCHITECT AND BUILDING News, are printed upon extra heavy paper, with broad margin, and will be sold for \$1.00 for each set of four plates. Mailed postpaid.

BUILDERS' SUPPLIES

FULLER, DANA, & FITZ, METAL MERCHANTS, Importers of ROOFING PLATES AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union Room Milley Solid Wordent Iron Brams, and The "Burden Best" Iron, Tensile Strength 78,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 118 COURT STERRY,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GALVANIZED IRON CORNICES, INAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenae, Boston.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The OBLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Bos on.

GEO. F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

PROPOSALS.

PROPOSALS FOR WROUGHT AND CAST IRON WORK.
U. S. CUSTOM HOUSE AND POST OFFICE, CHICAGO, ILLINOIS.

OFFICE OF SUPERISM HOUSE AND POST OFFICE, CRICAGO, ILLINOIS.

OFFICE OF SUPERVISING ARGISTECT.

TREASULT DEFARMENT, WASHINGTON, D.C.
MAY 16, 1876.

Sealed proposals will be received at this office until 12, M., of the 30th day of May, 1876, for furnishing, delivering, fitting, and putting in place, the Wrought and Cast Iron Work, comprising Columns, Pilasters, &c., of Second and Third Stories, and Rolled from Beams, &c., in Third and Attle Floors, all as exhibited on the drawings, described in the specification, and called for in the schedule.

Copies of the drawings, specifications, schedule, and form applications, as any additional information, may be had on

WM. A. POTTER, Supervising Architect.

PROPOSALS FOR WROUGHT AND CAST INON WORK.
U. S. CUSTOM HOUSE AND POST OFFICE, PALL RIVER, MASS.

U. S. CUSTOM HOUSE AND FALL RIVER, MARS.

OFFICE OF SUPERINTENDENT, MAY 3, 1876.

Sealed proposals will be received at this office until 12, m., of the 24th day of May, 1878, for furnishing, delivering, itting, and putting in place the Wrought and Gast Iron Work, comprising Boiled Seams, &c., in First and Second Floors, and Cast-iron Columns, Plisaters, &c., of First Story, all as exhibited on the drawings described in the specification, and called for in the schedule, and form of proposal, and any additional information, may be had on application at this office.

EDWARD T. AVERY,
Superintendent.

EDWARD T. AVER.

Superintendent.

WATER-WORKS. — Bids will be received by the Common Council of Fort Wayne, Ind., at the office of the City Civil Engineer, for the construction of the Fort Wayne water-works, and embracing the following particulars: For two sets of steam-pumping machinery cachicapable of raising 3,000,000 gallons of water, 200 feet high, in 24 hours. For one steam-pumping machinery capable of raising 3,000,000 gallons of water, 200 feet high, in 24 hours. For one water wheel and pump of the same capacity. For furnishing and laying 22 miles of water-pipes, with all the necessary fire-hydrants. stop-gates, and special castings. For the construction of two filtering basins. For the erection of a stand-pipe and tower 200 feet high, and for the construction of an engine-house and boiler-house. Also for furnishing at other structures and appurtenances required, as per plants and specifications. Proposals will also be received for furnishing a sufficient supply of water for domestic uses, and for the extinguishment of frees; and also for the extinguishment of frees; and slass of the proposal will be accompanied by the undertaking in writing, of two responsible persons, with their respective places of business or residence, to the effect that, if the contract be awarded to the person or person awaking the bid, they will, on its being so awarded, become bound as sureties for its faithful performance; and, if he or they shall omit or refuse to execute the same, they will pay the city of Fort Wayne any damage that may be occasioned to the said city by such failure. The plants and specifications can be seen at the office of the city civil engineer; and proposals will be received for the entire work or any part of the same until Tuesday, May 23, at noon.

VIRE COMMISSIONERS' OFFICE.

FIRE COMMISSIONERS' OFFICE.

No. 1238 RACE STREET, PHILADELPHIA.
Scaled Proposals will be received at this Office until Tuesday, May 16, 1876, at 8 o'clock, P.M., indorsed "Froposals for Furnishing Hose," and addressed to Jacob Loadenslager.
President of Board of Fire Commissioners, for furnishing 8,000 feet or more of 29, inch 4-ply, with 5-ply ends and capped, of Antiseptic Test Hose to stand a pressure of 400 pounds to the scuare inch.

ped, of Antisepite Test trose to stand a pressure of 400 pounds to the equare inch.

The Board reserves the right to reject any or all bids; and no bill will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance approved May 23, 1890, have been compiled with.

By order of the Board,

JOHN CANTLIN, Secretary,

JOHN CANTLIN, Secretary.

STATE REFORM SCHOOL - The trus ALLE REPURM SUMUUL.—The frustees of the low a Reform School hereby give notice that they intend to erect a main building for said school, and will receive bids for three hundred thousand or more brick of best quality, delivered in Eldora; two hundred or more legal perch of best quality foundation-stone, delivered at Eldora or at quarry; also the price per M of the various kinds of lumber necessary for such building; all to be delivered as above. All bids will be addressed to E. Andrew, Eldora, Io., and will be received until May 31, at which time they will be opened and examined. J. A. PARVIN, President. T. E. CORKHILL, Secretary.

PROPOSALS.

THE BOARD OF COMMISSIONERS OF THE BOARD OF COMMISSIONERS OF Cook County, III., will receive proposals at the office of the Clerk of the Board, in the Criminal Court building, Michigan Street, Chicago, III., until Thursday, June 1, 1876, at 12 o'clock M., for the furnishing of the materials, labor, stone-cutting, and stone-setting required in cut-stone work of the new Cook County Court House, in the city of Chicago aforesaid, in accordance with the plans, drawings, and specifications of the same on file at the office of James J. Egan; Architect, No. 14 South Clark Street, Chicago.

Proposals will be received as follows:

— lat, For materials in the rough, delivered on the dock at Chicago.

2d, For all labor, stone-cutting, and stone-setting complete.

ad, For materials, labor, stone-cutting, and stone-setting complete.

Bidders may submit proposals for one or more of the above items, and for any and all kinds of stone.

Bidders shall furnish with their proposals bonds in the sum of flifty thousand dollars, with two or more approved sureties, guaranteeing that they will enter into a further bond of one-half the amount of their proposal, with two or more approved sureties guaranteeing the proper performance of the contract. Each bond and proposal to be scaled in separate envelopes, indorsed "Bond" and "Proposal," with the name and address of the bidder in full; and these two envelopes, together with a copy of this advertisement, to be enclosed in a third envelope, similarly indorsed and addressed as above. Blank forms of proposal and bond, together with all necessary information with respect to plans, drawings, and specifications, will be furnished by the architect at his office.

No proposals will be received after the time specified: and all proposals that are not properly filled out will be rejected.

The right to reject any or all bids is reserved.

The right to reject any or all bids is reserved.

The right to reject any or all bids is reserved.

Bidders will understand that the contract with the successful bidder will exclude the employment of convict labor upen any material furnished the county.

Bidders and their securities will be required to furnish the joint con mittee satisfactory evidence of their responsibility before contract is entered into.

THOMAS LONERGAN, K. G. SCHMIDT, JOHN CONLY, THEODOR GUNTHER, A. B. JOHNSON, PATRICK CARROLL, JOHN MCOAFFREY, P. M. CLEARY.

Joint Committee on Public Buildings and Public Service.

STATE PENITENTIARY. — The undersigned commissioners under an act of the State of Texas, approved February 16, hereby advertise for proposals of pians, specifications, and other particulars, for the proper and substantial building and completion of two pensions of the proper and substantial building and completion of two pensions the proper is and State, in conformity to the modern forms of the proper is an experimental particular and proper in the proper is a proper in the proper in the proper is a proper in the proper in the proper in the proper is a proper in the proper in the proper in the proper is a proper in the proper in the proper in the proper in the proper is a proper in the proper i STATE PENITENTIARY. - The under-



The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,

WINTHROP SQUARE.....BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile. American, Roman, and Portland Cement,

LIME, SAND, &c. WALDO BROTHERS,

THE WAKEFIELD **EARTH CLOSETS**

Every person erecting a new house should investigate the Dry Earth System,

WAKEFIELD CLOSETS,

the best and most satisfactory yet invented. They are indispensable in every country house, and should supplant everywhere that

ACCURSED ABOMINATION,

The common out-door privy.

Dr. A. B. Palmer, in an admirable article in the Michigan Medical Journal, thus sums up the advantages of the earth closet system, as follows:

1st, To afford a comfortable closet on any floor of the house, which may be supplied with earth and cleansed of its deposits, without annoyance or inconvenience.

2d. A portable commonde in any dressing-room, bedroom, or closet, the care of which is no more disagreeable than that of a stove.

or closet, the care of which is no increased invalids, which for a slove.

2d. Appliances for the use of immovable invalids, which entirely remove the unpleasant accompaniments of trabald

The removal of the most fertile source of typhoid and various other diseases.

The complete suppression of the odors which despite sounder and cleisance of modern living, alli hang about cesspools and privy-vaults, and attend the removal of the complete despite sources.

contents.

The complete deodorization of the bucket so com-jused in just any prisons.

The realization of a fertilizer of material value to the ulturist.

THE WAKEFIELD EARTH CLOSET CO., 34 DEY STREET, NEW YORK,

For their descriptive pamphlet.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESBOOM.

No. 53 Chambers Street, New York.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

A New Range, designed for French Flats and Small Families.

BOYNTON'S PROVIDENT.

(Having a top surface 38 × 22 inch, fitted for 2 in. 9 lines THE MOST COMPLETE AND CONVENIENT RANGE IN USE.

HAS EXTRA SIZE OVEN (18 × 16), LARGE HOT CLOSETS.

CLOSETS.

(LOWER OR ELEVATED) LARGE FLUES, ASH-PAN,
AND ALL MODERN IMPROVEMENTS.
ATTRACTIVE AND BEAUTIFUL IN DESIGN. SEND
FOR CIRCULARS.
Richardson, Boynton & Co.,

284 Water Street, N. Y.

Parlor Grates,

OR HEALTH AND COMFORT.



H. M. CREAMER.

86 North St., Boston.

sem Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York.

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK

E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS.

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.

S. P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE.

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

E. Hixon, jun

A RTISTIC FURNITURE, &c., &c., made

THE HOUSEHOLD ART COMPANY.

158 TREMONT STREET,

CHARLES WOODBERRY & SON,

MASONS.

CONTRACTORS AND JOBBERS.

OFFICE 19 BROAD, CORNER CENTRAL STREET, BOSTON.

Superintendents of Construction and Building Construc-tors. Architectural Plans, Detail Drawings and Specifications Fire Insurance Adjusters between Insurance Companies Owners or Occupants, in case of Fire or Damage; Estimate given for all Trades in Building, &c.

ANNALS OF A FORTRESS. BY VIOL-Architect. I volume 8vo. Elghty-five illustrations, several in Colors. \$5.00.

. For sale by all Booksellers. Sent postpaid, on receipt of price by the publishers,



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

Boston.—Parsons & Torry, 636 Washingon st; Pitkin Bros. Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, Dock sq.; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 22 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, K. I. Belicher Bros. 27 Weybonset st., Sq.; Markette, 14 Hannacher & Co., 399 Bowest A., Sq.; Markette, 15 Hannacher & Co., 399 Bowest st., Sq.; B. L. Olomon & Sons, 639 Broadway; E. R. Krumm, 12 Enex street, has. E. Kugler, 10 Division st. Speyer Bros, 110 Bowery; W. F. Lubinger, 198 Grand st; C. A. Stock, 116 Wooster street.

A annotison & Co. 8 Dey st. O. A. Nathusius, 229 Bowery; I. Solomon & Sons, 639 Broadway; E. R. Krumm, 121 Enex street; Chas. E. Kugler, 10 Division et.; Speyer Bros, 110 Bowery; W. F. Hubinger, 188 Grand st; C. A. Stock, 116 Wooster street.

Brooklyn, (E. D.) N. Y. — Hermann Weber, 134 Graham av. Albany. — Maurice E. Vicle, 41 State st.

Philadelphia, — Thomas Thompson, Sons, & Co. 260 S. 2d st; B. L. Middleton, 817 N. 2d st; B. I., Solomon & Sons, 31 N. 2d st; F. A. Bueren, 435 E. Philadelphia, — Thomas Thompson, Sons, & Co. 260 S. 2d st; B. L. Middleton, 817 N. 2d st; B. I., Solomon & Sons, 31 N. 2d st; F. A. Bueren, 435 E. Philadelphia, — Thomas Thompson, Sons, & Co. 260 S. 2d st; B. I., Solomon & Sons, 31 N. 2d st; F. A. Bueren, 435 E. Philadelphia, — Checker, 435 E. Philadelphia, — Thomas Thompson, Sons, & Co. 260 S. 2d st; B. I., Solomon & Sons, 31 N. 2d st; F. A. Bueren, 435 E. Philadelphia, — Checker, 435 E. Philadelphia, — Checker, 435 E. Philadelphia, Co. 2d Sons, 31 N. 2d st; F. A. Bueren, 435 E. Philadelphia, — Checker, 435 E. Philadelphia, Co. 2d Sons, 24 South Checker, 435 E. Philadelphia, 250 S. Sharp st. Cleveland, 6. — George Worthington & Co., 90 Water st; Wm. Bingham & Co., 148 Water st.

Chicango. — J. L. Wayna, & Son, 74 Randolph st; A. A. Ullrich, 250 S. Sharp st. Checker, — Bull, Denanten & Co., 28 Randolph st.

St. Louis. — Geo. A. Rubelmann & Co., 827 N. 6th st. Washington. — F. P. May & Co., 168 Son, 310 Market street. St. Louis. — Geo. A. Rubelmann & Co., 168 No. Johnes st. Manuficton, 6 nd. — Witten & Thompson, 16 McNab st. asp Our goods can be purchased of the above Agents at the same prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,



METAL WORKER,

Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c., MADE TO ORDER,

Franklin, corner Centre Street, NEW YORK,

MONS. C. J. SOYARD, formerly 12 West 111 Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACOS STREET, NEAR TREMONT, BOSTON.

A RT FOLIAGE. By J. K. Colling. 1 vol.
quarto. 72 plates. \$15.00.
".* For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.
JAMES R. OSGOOD & CO., BOSTON

New York Sketch-Book Architecture.

1876. THIRD YEAR. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE,

JAMES R. OSGOOD & CO., Publishers, Boston,

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. MAHOGANY, ROSEWOOD, etc., WHITE HOLLY, THUYA,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

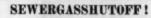
TILES.

FOR FURNITURE, DECORATION, AND BATHROOM LININGS.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

hool partitions. Clark's Sheights, and cannot get out of st and cheapest shutters in the d Hudson Canal Building, Man years in dsily use in every priding architects of the world.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne,









JENNINGS' SPECIALTIES

IN ALL KINDS

SUPPLIES

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, JENNINGS' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinal, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sever gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York.

Contractor for Tile Work in

DWELLINGS AND PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

Por Building IRON AND WIRE RAILING,

IRON CRESTINGS, IRON STABLE FIXTURES,

FOUNTAINS,

VASES.

GARDEN STATUARY, WEATHER VANES,

AND BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue BUBIER & COMPANY, 118 MILE STREET, BOSTON.



J. & R. LAMB, 59 Carmine St., New York

CHURCH FURNITURE.

Wood, Metal and Stone for Church purposes asively. Polished Brass and Sterling Silver

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decor 10 cts. | 10 cts.

ARCHITECTS.

OFFICES OF FRANK W. WESTON,
(Late Weston & Rand, Architect,
178 DEVONSHIRE ST., AND 38 FEDERAL ST...
BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93 Water Street, Boston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
NOS. 488 & 490 HARRISON AVENUR, BO

MEAD, MASON, & CO., BUILDERS.
Beston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

TO ARCHITECTS OR BUILDERS. man thoroughly practical, late superintended large estate, with twenty years' experience in beeks employment as above. Good knowledge of doubling, construction, and erection, in all branche work. Highest references. Terms moderate. Addr. MECHANIC, 842 Washington St., Boston

Franklin Press: Rand, Avery, & Co., Boston.

Catalogue of Architectural Books

Mailed free to any address

All Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS.

27 WARREN STREET, NEW YORK. CHILD-LIFE IN PICTURES.

twenty-four Heliotype Plates, from Correction, CLEY, REYNOZDE, GREUZE, LAWRENCE, MURILLO, GREATHARL, and other celebrated painters, —forming as of charming pictures of children and child-life, Quiperios, \$10.06. JAMES R. OSGOOD & O., Bost







Vol. I. No. 22.7

BOSTON, SATURDAY, MAY 27, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, Boston. | New York. | Philadelphia.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

PIRE CLAY GOODS.

FIRE BRICK AND TILE.

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS.

WHARF, 394 PEDERAL STREET, BOSTON.

(Just South of Kneeland St.)

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite all towns where heavy pressures are used; and the ease certainty with which a joint can be made are great reco mendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
——Send for Circulars.——
ROBERT GEMS, Treas.——Sciencom, 339 Washington St.,
BOS FON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

QUARTYMAN, and Wholesale Doaler in
BUILDING STONE,
OHIO STONE, PROM BEELIN, AMHERST, AMD BEERA QUARRIES.
SOE Agent for
BERLIN STONE, And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.
S. W. FULLER,
63 Devenshire Street, Boston

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., 367 Washington St., BOSTON.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Wildow Caps, &c. SMITH & VAN NOODLEN, 387 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this majuraterier. The blocks do not than the cast, could, or sound, and weigh aixty per cent less

p-proof partitions, floor arches between iron beams, gs under wooden or iron beams, in the following

ceilings under wooden or iron beams, in the following buildings:—
Western Union Telegraph, Del. and Hudson Canal Co., Staats Zeitung, Staats Z

Office, lll Broadway, N.Y.

JOHN H. REED & CO.

IRON MERCHANTS

AND AGENTS FOR BAY STATE IRON COMPANY.

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Piates, Plats, Sheet, Pig. and Railroad Iron. Wrought Iron Girder, Channel, and Dock Beams, Angle and T Iron. Boiler and Tank

Rivets, Lap-Welded Iron Boiler Tubes Wrought Iron Steam and Gas Pipe

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

only safe and reliable machine made for Passenublic Buildings and Hotels, and for business purpellouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFFS, I. A. BIGELOW,
President. Treas'r and Gen'i Manager.

CAPE ANN GRANITE COMPANY

—Furnish—

GRANITE. BUILDING AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAYING BLOCKS,
SIMMONS BUILDING. 40 WATER ST., BOSTON.

JONAS H. FRENCH, Free

SCOTT WEBBER, Supt.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St.,
Boston, GAS FITTERS, GILT, BRONZE, AND
GLASS CHANDELIERS, Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders furnished
with the lowest estimates.

BEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW KNGLAND ELT ROOFING COMPANY, 17 Central Street, Boston.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLET STEEFT, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, PUNNEL STONES, &C. BENJ. NOYES, Agent.

H. HALL, Stair Builder, and Manufac-• turer of Stationary Wash Stands, 27 Haverhill St., Bos-Posts, Rails, Balusters, & Office Rails, furnished to order.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT &

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished to large or small quanties, by

GEO, BARNEY, Swanton, Vt.

Bend for Circular and Price List.

LECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TLEEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered lith, or cutrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BRIDGEFORT, COSM.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RALLBOAD
OFFICES, &C., No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fis-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE.

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTOR.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO.9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

RE-ENGAGEMENT WANTED by an Architural Designer of ten years' practice in New York City. Experienced and practical in designing, planning, and superintending buildings of any description. Reference first-class. No objection to leave the city. Address F. VITRUVE, care of E. P. DUTTON & CO.,

713 Broadway. New York.

PROPOSALS.

THE BOARD OF COMMISSIONERS OF Cook County, Ill., will receive proposals at the office of the Clerk of the Board, in the Criminal Court building, Michigan Street, Chicago, Ill., until Thursday, June 1, 1876, at 12 o'clock M., for the furnishing of the materials, labor, stone-cutting, and stone-setting required in cut-stone work of the new Cook County Court House, in the city of Chicago aforceaid, in accordance with the plans, drawings, and specifications of the same on file at the office of James J. Egan, Architect, No. 14 South Clark Street, Chicago. Proposals will be received as follows: —

lst, For materials in the rough, delivered on the dock at Chicago.

nicago. 2d. For all labor, stone-cutting, and stone-setting. 3d. For materials, labor, stone-cutting, and stone

2d. For ansertain, labor, stone-cutting, and stone-setting complete.

Bidders may submit proposale for one or more of the above items, and for any and all kinds of stone.

Bidders shall furnish with their proposals bonds in the sum of fifty thousand dollars, with two or more approved sureties, guaranteeing that they will enter into a further bond of one-half the amount of their proposal, with two or more approved sureties guaranteeing the proper performance of the contract. Each bond and proposal to be sealed in separate envelopes, indoorsed "Bond" and "Proposal," with the name and address of the bidder in full; and these two envelopes, together with a copy of this advertisement, to be enclosed in a third envelope, similarly indorsed and addressed as above. Blank forms of proposal and bond, together with a line-cessing information with respect to architect at his office.

Bidders will obtain access to the plans and specifications only in the order of their application at the office.

Mo proposals will be received after the time specified; and all proposals that are not properly filled out will be rejected.

The right to reject any or all bids is reserved.

and all proposals that are not properly missions with we rejected.

The right to reject any or all bids is reserved.

Briders will understand that the contract with the successful bidder will exclude the employment of convict labor upon any material furnished the county.

Bidders and their securities will be required to furnish the joint committee satisfactory evidence of their responsibility before contract is entered into.

THOMAS LONERGAN.K.G. SCHMIDT, JOHN CONLY, THEODOR GUNTHER, A. B. JOHNSON, PATRICK CARROLL, JOHN MCAFFREY, P. M. CLEARY.

Joint Committee on Public Buildings and Public Service.

STATE PENITENTIARY. — The undersigned commissioners under an act of the State of Texas, approved February 16, hereby advertise for proposals of plans, specifications, and other particulars, for the proper and substantial building and completion of two penitentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the best for the heatit and comfort of the convicts. One of said penitentiaries to be built about two miles north of Russ, in Cherokee County, with a view of utilizing in manufactures to the built about two miles north of Russ, in Cherokee County, with a view of utilizing in manufactures to the rot be built as the head of the San Marcoa River, in Hayee County, in contemplation of the manufacture of cotton, wood, leather, and other goods and fabrics, that will not come into competition with the personal industries of the mechanical professions. Said penitentiaries are to be completed by the first day of July, 1871; and parties making proposals of plans, &c., for both or either of said penitentiaries, will state upon what terms and for what amounts they will build the same, and will, in connection with said proposals, furnish due guaranties of their abilities to build and complete the same in accordance with such plans, &c., and by the time limited. Persons desiring to inspect the sites indicated will call on a L. Gregg at Rusk, or Gent essee to E. La dregg, at Rusk, Cherokee County, Texas. The commissioners expressly give notice that no compensation will be made for any proposals, plans, &c., which may be submitted under this advertisement. W. W. LANG, ED. BURLESON, B. W. BROWN, E. L. GREGG, Commissioners.

PROPOSALS FOR WROUGHT AND
CAST IRON WORK.
U. S. CUSTOM HOUSE AND POST OFFICE,
FALL RIVER, MASS.
OFFICE OF SUPERINTENDENT, MAY 3, 1876.
Scaled proposals will be received at this office until 12, M., of the 24th day of May, 1876, for furnishing, delivering, fitting, and putting in place the Wrought and Cast Iron Work, comprising Rolled Beams, &c., in First and Second Floors, and Cast-fron Columns, Pliasters, &c., of First Story, all as exhibited on the drawings described in the specification, and called for in the schedule.
Copies of the drawings, specification, schedule, and form of proposal, and any additional information, may be had on application at this office.

EDWARD T. AVERY,

EDWARD T. AVERY,

STATE REFORM SCHOOL.—The trustees of the lowa Reform School hereby give notice that they intend to erect a main building for said school, and will receive hids for three hundred thousand or more brick of best quality, delivered in Eldora; two hundred or more legal perch of best quality foundation-atone, delivered at Eldora or at quarry; also the price per M of the various kinds of lumber necessary for such building; all to be delivered as above. All bids will be addressed to E. Andrew, Eldora, Io., and will be received until May 31, at which time they will be opened and examined. J. A. PARVIN, President. T. E. CORKHILL, Secretary.

MASS. INSTITUTE OF TECHNOLOGY.

M This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechan-cal, and Missing Engineers, Architects, Teachers of Science,

and Manufacturers, Architects, Teachers of Science
The Course in Architecture embraces, besides the ne
cessary scientific and mathematical studies, the study o
architectural history, and the constant practice of origina
design.
Special students in Architecture are received into a two
years' special course.
For particulars

Special students of Special Course, For particulars address William R. Ware, Esq., Professor of Architecture, or Dr. Samurki Knerland. Secretary. Bostor, Feb. 1, 1876.

PLANS OF THE NEW YORK STATE

Messrs. J. R. OSGOOD & CO. have on hand a limited national state of Helioty pes of the designs of the Advisory Board for the completion of the new State Capitol at Albany. These copies, which are the same as those issued with No. II of the AMERICAN ARCHITECT AND BUILDING NEWS, are printed upon extra heavy paper, with broad will bemargin, and sold for \$1.00 for each set of four plates. Mailed postpaid.

BUILDERS' SUPPLIES.

TULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, UNED IN BUILDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT 1RON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 18,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
17 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

WALWORTH MANUFACTURING CO.
STEAM AND HOT WATER WARMING ANI
VENTILATING APPARATUS. Gas Lighting Apparatus
Wrought from Pipes and Fittings. No. 69 Kilby St., Boaton

M URDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MARUFACTURERS of these goods in New England. No. 11 Marshall Street, Boston.

GEO. F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

STEAM HEATING.

LE BOSQUET'S

STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to ou dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it descreed; popular. This end we have reached with our Beiler, no however by any sacrifice in quality of material employed or workmanship, but by a simple combination of parts whereby we accomplish the desired object, securing econo my both in material and labor. Our Fortable Boiler, especially, is easy to erect, efficient in operation, and moderat in cost. Parties who have a preference for this method o heating should examine this Boiler at our salesrooms. I has been in practical operation in buildings and privat residences the past winter; and its working has been end nently satisfactory in every respect. We issue a Pamphle with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston



The American Architect and Building News.

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE..... BOSTON

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

THE WAKEFIELD EARTH CLOSETS

Every person erecting a new house should investigate the



WAKEFIELD CLOSETS, the best and most satisfactory yet invented. They are indispensable in every country house, and should supplant everywhere that

ACCURSED ABOMINATION.

The common out-door privy.

Dr. A. B. Palmer, in an admirable article in the Michigan Medical Journal, thus sums up the advantages of the earth closet system, as follows:—

1st, To afford a comfortable closet on any floor of the nouse, which may be supplied with earth and cleaused of its leposits, without annoyance or inconvenience.

2d. A portable commode in any dressing-room, bedroom, or closet, the care of which is no more disagreeable than that if a stove.

3d. Appliances for the use of immovable invalids, which atirely remove the unpleasant accompaniments of their

The removal of the most fertile source of typhoid and various other diseases.

The complete suppression of the odors which, despite comfort and elegance of modern living, still hang about excesspools and privy-vaults, and attend the removal of

their contents.

6th, The complete deodorization of the bucket so commonly used in jails and prisons.

7th, The realization of a fertilizer of material value to the agriculturist.

THE WAKEFIELD EARTH CLOSET CO.,

34 DEY STREET, NEW YORK,

For their descriptive pamphlet.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware

THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

No. 53 Chambers Street, New York.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

A New Range, designed for French Flats and Small Families.

BOYNTON'S PROVIDENT.

(Having a top surface 38 \times 22 inch, fitted for 2 in. 9 lines

THE MOST COMPLETE AND CONVENIENT RANGE IN USE.

HAS EXTRA SIZE O'PEN (18 X 16), LARGE HOT CLOSETS.

(LOWER OR ELEVATED) LARGE FLUES, ASH-PAN,

AND ALL MODERN IMPROVEMENTS.
ATTRACTIVE AND BEAUTIFUL IN DESIGN. SEND FOR CIRCULARS

Richardson, Boynton & Co.,

234 Water Street, N. Y.

Parlor Grates,

FOR HEALTH AND COMFORT.



Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England. Also, Creamer's Convex Side-Wall Registers prevent walls being discolored by furnace-heat. Floor Registers, on the lever movement, prevent drt and sweepings ever elogising thers. Celling

H. M. CREAMER.

86 North St., Boston.

ser Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK,

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repair-ing and Leasing Estates and the Collection of Rents. MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS.

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, BOSTON

LIENARD'S DECORATION AND ORNAMENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By Lienards of 120
designs, rich in hims to Architects and Decorators. 1 vol.
designs, rich in hims to Architects and Decorators. 1 vol.
JAMES R. OSGOOD & CO., BOSTON.

JAMES R. OSGOOD & CO., BOSTON.

**Will be malled and presaid on the receipt of the price.

ANALS OF A FORTRESS. BY VIOL.

LET-LE-DUC. Translated by Benjamin Buckmall, Architect. 1 volume 8vo. Eighty-five illustrations, several in Colors. \$5.00.

***Forsaile by all Booksellers. Sent postpaid, on receipt of price by the publishers.

BURDITT & WILLIAMS,

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from ur own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street,

BOSTON. Illustrated Catalogues sent free on application

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

E. Hixon, jur

ARCHITECTURAL IRON WORK.

A practical work for Iron Workers, Architects, and Engineers, and all whose trade, profession, or business connects them with Architectural Iron Work; showing the organization and mechanical and fluancial management of a foundry and shops for the manufacture of Iron Work for buildings with specifications of Iron Work, useful tables, and valuable suggestions for the successful conduct of the business. By W.H. Fryer, inn. With Illustrations. I vol., 8vo., cloth, \$3.50. Pathished and for sale by

JOHN WILEY & SONS, 15 Astor Place, New York. *, Will be mailed and prepaid on the receipt of the price.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

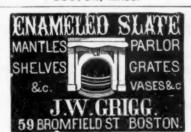
Boston.—Parsons & Torry, 656 Washingon st; Pitkin Bros. 30 Charlestown st; Allen & Noble, 98 Hanover st; Bogman & Vinal, Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 231 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. L. Belcher Bros, 27 Weybosset st. Gry, L. J. Tillotkon & Co. 199 Market Rev. 199 Market & Co. 299 Market School, 199 Market Rev. 1

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,

MACHINIST and METAL WORKER No. 24 Franklin Street, N. Y.



Escutcheons, Locks, Hinges, Andirona, Fenders, Knockers, &c.,

MADE TO ORDER.

MONS. C. J. SOYARD, formerly 12 West MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, HEAR TREMONT, BOSTON.

A RT FOLIAGE. By J. K. Colling. 1 vol.
quarto. 72 plates. \$15.00.

** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Bostom.

New York Sketch-Book Architecture.

THIRD YEAR. 1876. PRICE \$6 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

od cheapest shutters in the world. Are fitted to the new Trit ideon Canal Building, Manhattan Building, Lenox Librar, ra in skily use in every principal city throughout Europe, it architects of the world.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Molbourne, &c.

SEWERGASSHUTOFF!

JENNINGS' SPECIALTIES IN ALL KINDS

JENNINGS' PATENT SEX- JENNINGS' PATENT WATER CLOSETS, EMPININGS' PATENT PERSON URINAL.

JENNINGS' SANITARY DEPOT,

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basi Patent Latrines, and other specialties (the peculiarity clusion of sewer gas), with a large stock of general plus

Illustrated descriptive circulars sent on application.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., WHITE HOLLY. MAHOGANY. THUYA.

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

94 Beekman St., Works, 9 & 11 Hague St., New York. Contractor for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A. G. MYERS, Manager.

A Fine Assertment of

PIRE-PLACE LININGS, HEARTHS, AND HALL, VES-TIBULE, AND BANK

F L O O R S.

Manufacturer of Fine Purniture, and Importer of vare Etch-

No. 170 TREMONT ST., BOSTON.

suitable for

Office, 10 Travers St., Boston.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION, AND BATHROOM LININGS.

WROUGHT AND CAST IBON

For Building IRON AND WIRE BAILING,

IRON STABLE FIXTURES,

AND BUILDERS' HARDWARE

Estimates given on all kinds of

J. & R. LAMB, 59 Carmine St., New York CHURCH FURNITURE

GARDEN STATUARY,

IRON CRESTINGS.

WEATHER VANES.

Boston Ornamental Iron Works

MANUPACTURE ALL KINDS OF

FOUNTAINS,

Iron Work.

118 MILE STREET, BOSTON

kers in Wood, Metal and Stone for Church purp lively. Polished Brass and Sterling Silver. Illustrated Catalogues Post Free

ed Work | M. tal & Stone Work | Banners & Deco.



OFFICES OF FRANK W. WESTON, (Late WESTON & RAND, 17 Pemberton Sq. Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS

JOS. E. BILLINGS, Architect, 33 School Street, Boston.

BUBIER & COMPANY,

TO ARCHITECTS OR BUILDERS. man thoroughly practical, late superintendent large estate, with twenty years' experience in builence estemployment as above. Good knowledge of dra building, construction, and erection, in all branches or

Franklin Press: Rand, Avery, & Co., Boston.

Send Stamp for Catalogue.

ARCHITECTS

CHARLES D. WOODBERRY, Architect,

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 16 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS,
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N. H. Churches and
Public Buildings a specialty. Estimates given.

supplyment as above. Good knowledge of drawing ag, construction, and erection, in all branches of the Highest references. Terms moderate. Address MECHANIC, 842 Washington St., Boston, Mass

Catalogue of Architectural Books

Architectural and Scientific Books supplied at pub-

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

CHILD-LIFE IN PICTURES.







Vol. I. No. 23.]

BOSTON, SATURDAY, JUNE 3, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street Boston. New York. Philadelphia.

JAMES EDMOND & CO.

MANUPACTURERS AND IMPORTERS OF

PIRE CLAY GOODS.

FIRE BRICK AND TILE.

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS.

WHARP, 394 PEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

TIN-LINED IRON PIPE. A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

7ATHAM & BROS., 83 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor." "- Iron Age.

NEW ENGLAND LINEN HOSE MANU FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesrom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE.

BUILDING STONE,

SHOW BELLIN, AMHEST, AND SEREA QUARRIES
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARRIE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN USE.
S. W. FULLER,
63 Devonshire Street, Boston.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., MT Washington St., BOSTON.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure sir, without dust or cold draughts, and adapted to large or smail rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boaton.

GALVANIZED IRON CORNICES, BEEHIVE BRAND FELT ROOFING for Campbell's Patent Chimney Jacks, Window Cases, &c. Smith & van Noordeen, Set Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE PARE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fir- and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh slaxty per cent less than brick.

Fire-proof partition. THE FIRE-PROOF BUILDING CO. OF

-proof partitions, floor arches between iron beams, sunder wooden or iron beams, in the following

wildings: — Watern Union Telegraph,
Watern Union Telegraph,
Collel, and Hudson Canal Co.,
Staats Zeitung,
Willims of Savings Bank,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Saltimore Safs Deposit,
Insurance on Wooden Manaards r-duced ninety cents per cito.
Sidewalks laid at Lenox Library, Tribune, &c. Holow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public cests.

Office, III Broadway, N. Y.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK

ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER]
A SPECIALITY.

Works, cor. Pratt and Scott Sts., Office 24 Light St. Baltimore, Mb.

JOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boller and Fire-Box Pistes, Plate, Sheet, Pig, and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron,Boller and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS" PATENT" COMBI-NATION ROPE ELEVATOR,

ne only safe and reliable machine made for Passenger use Public Buildings and Hotels, and for business purposes in archouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

L. A. BIGELOW, Treas'r and Gen'l Manage

CAPE ANN GRANITE COMPANY

-FurnishGRANITE BUILDING, AND MONUMENTAL WORK.
AS OGRANITE FLAA DE MONUMENTAL WORK.
SIMMONS BUILDING, WATER ST. HOSTON.
Quarries: BAY VIEW, GLOUGESTER. MASS.
JOHAS H. FRENCH, SCOTT WEBBER, Supt.

HENRY B. JONES & CO. PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUPACTURERS OF ALL EINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

LECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thins: WM. A. BARNES, 99 WATER STREET, BRIDGEFORT, CODN.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBORSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILBOAD CARS, OFFICES, &C., NO. 296 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER.

No. 17 PRESERVON SQUARE,

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS,
NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLAGE,
Opp. Park-Street Church,
Bostom.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

RE-ENGAGEMENT WANTED by an Architaral Designer of ten years' practice in New York City. Experienced and practical in designing, planning, and superintending buildings of any description. Reference dirst-class. No objection to leave the city. Address F. VITRUVE, care of E. P. DUTTON & CO.,
713 Broadway, New York.

BUILDERS' SUPPLIES.

PULLIER, DANA, & FITZ,
110 NORTH STREET, BOSTOE.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDER BRST" IRON, Tensile Strength 78,000 lbs.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND WENTILATING AIPTARATUS. Gas Lighting Appearatus, Wrought fron Pipes and Fittings. No. 69 Kiby St., Boston.

MURDOCK PARLOR GRATE CO. Parlor THE Grates of every description. The OULY MANUACTURERS of these goods in New England. No. 11 Marshall Street. Best on.

GEO. F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

NEW ENGLAND DRAIN PIPE COMPA NEW ENGLAND DAVAIN A TAXABLE OF SEWER NY, 24 HAWLET STERET, BOSTON. GLAZED SEWER DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubi

PROPOSALS.

PROPOSALS.

STATE PENITENTIARY. — The undersigned commissioners under an act of the State of Texas, approved February 16, hereby advertise for proposals of plans, specifications, and other particulars, for the proper and substantial building and completion of two pendentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the perfect of the property of the property of the state of the

STATE EDUCATIONAL INSTITUTION. CTATE EDUCATIONAL INSTITUTION.

— Proposals for furnishing material and the erection of the main building of the Institution for the Education of the Blind, in the city of Janesville, Wis., according to the plans and specifications thereor, will be received by the undersigned, at his office, No. 6 East Milwaukee Street, Janesville, Wis., until 12 o'clock noon, June 15, 1876. The plans and specifications may be examined at the office of A. Anderson, architect (under whose supervision the work will be done; at No. 37 West Milwaukee Street, Janesville, from and after June 1, 1876. Proposals may be made separately for mason work, including the cast-iron work connected therewith; and for carpenter work, including galvanized and wrought iron work, in work, painting and glazing. Proposals will also be received for doing the entire work. For further particulars address or call upon the undersigned. J. B. WillTING, Secretary of the Board of Trustees of the Wisconsin Institution for the Education of the Blind.

COURT-HOUSE AND JAIL. — Proposals will be received by the Board of County Commissioners, at the office of the County Clerk, until Thursday, June 18, one F.M., for the building of a court-house and jail in Ford County, R.a.. Said court-house to be built of brick, 19 inch walls, 36 feet square, and 24 feet high. Each bid must be supported by the county of the county

HEATING APPARATUS. — Bids will be received until 12 m., June 13, for heating the buildings of the institution for the Deaf and Dumb, at Council Bluffs. 10. Bidders will furnish their own specifications; but printed directions will be furnished them on application to William Ward, Superintendent, Council Bluffs, 10. By order of the Board of Trustees. Thos. OFFICEB, President,

ROOF AND CORNICE WORK. - Proposals AND CORNICE WORK. — Proposals office of the Washington Aqueduct in Washington, D.C.; until 12 m., June 12, for constructing an iron truss roof and galvanized from cornice on the Gate House at Great Falls. Flams and specifications can be seen at this office; and all necessary information can be seen at this office; and all necessary information can be deviated from O. E. Habcock, Colonel of Engineers, U. S. A., Chief Engineer Washington Aqueduct

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 16mmo. 1.00 JAMES R. OSGOOD & CO., BOSTOK.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Briler, not however by any ascriftee in quality of material employed, or workmanship, but by a slamble combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Famphlet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS. Haverhill, and 14 Bedford Street, Boston.



E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS,

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, re invited to confer with us.



TELEGRAPH SUPPLY CO.

CLEVELAND, OHIO,

Electrical Work for Dwellings and Public Buildings, Electric Burg'ar Alarms, Call Bells, Annunciators, Fire Alarms, Gas Lighting Apparatus, Electric Clocks, &c.

THE WAKEFIELD EARTH CLOSETS

Every person erecting a new house should investigate the

Dry Earth System,

the best and most anisfactory yet invented. They are indispensable in every country bosse, and should supplant everywhere that

ACCURSED ABOMINATION,

The common out-door privy.

Dr. A. B. Palmer, in an admirable article in the Michigan Medical Journal, thus sums up the advantages of the earth closet system, as follows:

1st. To afford a comfortable closet on any floor of the house, which may be supplied with earth and cleansed of its deposits, without annoyance or inconvenience.

2d. A portable commonde in any dressing-room, bedroom, or closet, the care of which is no more disagreeable than that of a stove.

stove.

1. Appliances for the use of immovable invalids, which rely remove the unpleasant accompaniments of their

are.
4th. The removal of the most fertile source of typhoid
ever and various other diseases.
5th. The complete suppression of the odors which, despite
he comfort and elegance of modern living, atil hang about
ar cesspools and privy-vaults, and attend the removal of
helr contents.

ontents.

The complete deodorization of the bucket so com-used in jails and prisons

The realization of a fertilizer of material value to the

THE WAKEFIELD EARTH CLOSET CO.

34 DEY STREET, NEW YORK,

For their descriptive pamphlet.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronse Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY E. TOWNS, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESBOOM.

No. 53 Chambers Street, New York.

W. J. McPHERSON & CO...

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

CREEN BOORS
THE UNION SPRING HINGES
le acting only \$1.04. Double acting \$2.00 per pair

The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,
WINTHROP SQUARE.....BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

CEO. W. STOCKLY, Manager,
Office, No. 49 Public Sq., Cleveland, O.
Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER

86 North St., Boston.

bundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,

ARGINTECTURAL BOOK PUBLISHERS,
27 WARREN STREET, NEW YORK.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



S. P. TOLMAN & E. A. HUNTING, GENERAL AGENTS. Particular attention given to Repairing and Leasing. Estates and the Collection of Rents. MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, ROSTON.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nineteenth Century. By Lienard. Reproduced by the Heliotype Process. Upwards of 130 designs, rich in hints to Architects and Decorators. 1 vol. folio, boards, \$27.60. Haif moroeco, cloth sides, \$30.00. JAMES R. OSGOOD & CO., BOSTOR.

BURDITT & WILLIAMS.

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

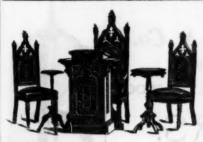
FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WARRIAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workman

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

E. Hixon, jun

ARCHITECTURAL IRON WORK.

A practical work for I on Workers, Architects, and Engineers, and all whose trade, pr.fession, or business connects them with Architectural I ron Work; showing the organization and mechanical and financial management of a foundry and shops for the manufacture of I ron Work for buildings: with specifications of Iron Work, useful tables, and valuable suggestions for the successful conduct of the business. By W. 1. Fryer, jun. With Illustrations. I vol., 8vo., cloth, 3:59. Published and for sale by

JOHN WILEY & SONS, 15 Aster Place, New York.

*.*Will be mailed and prepaid on the receipt of the price

MASS. INSTITUTE OF TECHNOLOGY.

and training for Chemists, Metallurgists, Civil Mechanican training for Chemists, Metallurgists, Civil Mechanican and Manufacturens.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

design.

Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. SAMUEL KMEELAND, Secretary.

BOSTON, Feb. 1, 1876.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDERR. Illustrated. 1 vol. square 12mo.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS

Boston.—Parson & Tory, 626 Washingon st; Pitkin Broz.

25 Charleston st, Allen & Noble, 94 Hanover st; Bogman & Vinal,
Lower St. Bogman & Winal,
Lower St. Bogman & Washington st; E. L. Solomon & Sons, 46 Franklin strest.

Providence, R. L.—Belcher Bros, 27 Weyboset st.
New York City.—A. Hammacher & Co., 399 Bowery;
L. J. Tillottson & Co., 8 Ley st; O. A. Nathusius, 228 Bowery; B. L. Solomon & Sons, 60 Broadway; E. R. Krumm, 131 Essex street;
Chas. E. Kugler, 10 Division st.; beyer Bros, 10 Bowery; W. F.
Harooklyan, C. E. D. N. X.—Hermann Weber, 136 Graham av.
Albany.—Maurice E. Viels, 41 State st.
Brooklyan, C. E. D. N. X.—Hermann Weber, 136 Graham av.
Albany.—Maurice E. Viels, 41 State st.
Buffalo.—C. H. Uitey, 82 Pearl st.
Philadelphin.—Thomas Thompson, Sons, & Co., 408. 20
Hanfalo.—C. H. Uitey, 82 Pearl st.
Philadelphin.—Thomas Thompson, Sons, & Co., 408. 20
Hanfalo.—C. H. Uitey, 82 Pearl st.
Philadelphin.—Thomas Thompson, Sons, & Co., 408. 20
Hanfalor.—C. R. Holmes, M. S. Sons, & Co., 408. 20
Hanghin st.; Thomas Knight & Co., 601, Haddeson, 817
N. M. st.; B. L. Solomon & Sons, 31 N. M. st.; F. A. Bueren, 468 E.
Dauphin st.; Thomas Knight & Co., 601, Ridge ave, and Green st.
Pittashurg.—Joseph Woodwell & Co., 602, And Green st.
Pittashurg.—Joseph Woodwell & Co., 603, Handoph st.; A. A. Uitleh
& Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randoph st.; A. A. Uitleh
& Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randoph st.; A. A. Uitleh
& Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randoph st.; A. A. Uitleh
& Co., 16 Fifth ave; J. Liebenstein & Co., 62 Randoph st.; A. A. Uitleh
& Co., 16 Fifth ave; J. Liebenstein & Co., 63 R. James

San, Franctisco.—B. L. Bolomon & Sons, 410 Market street.

Montreal.—James Walker & Co., 63 R. James

Gunebec.—S. J. Shaw & Oo, 78 John st.

Hamilton, Ont.—Waton & Thompson, 16 MeNab st.

Hamilton, Ont.—Waton & Thompson, 16 MeNab st.

Our goods can be purchased of the ab-

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

O. H. PERRY,

MACHINIST and METAL WORKER No. 24 Franklin Street, N. Y.



Escutcheons, Locks, Hinges, Andirons Fenders, Knockers, &c.,

MADE TO ORDER.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, HEAR TREMORT, BOSTON.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.90.

. For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.
JAMES R. OSGOOD & CO., BOSTON.

New York Sketch-Book Architecture.

1876. THIRD YEAR. 1876. PRICE 86 PER YEAR, OR \$5 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SA'IN, TULIP. WHITE HOLLY, THUYA. ROSEWOOD, etc.,

> In Logs, Planks, Boards, a suitable for

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

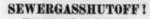
PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION, AND BATHROOM LININGS.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbo











NINGS' PATENT SIX. Jennings' Patent Water Closets, emings Patent

Patent Slop and Kitchen Sinks, Tip-Up Wast Patent Latrines, and other specialties (the peculi-clusion of sewer gas), with a large stock of general

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York.

Contractor for Tile Work in

DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VES-TIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.

Boston Ornamental Iron Works

MANUPACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING.

IRON CRESTINGS. IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES.

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue

BUBIER & COMPANY, 118 MILE STREET, BOSTON.



J. & R. LAMB,

59 Carmine St., New York

CHURCH FURNITURE.

rkers in Wood, Metal and Stone for Church purp sively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. ood Work | Metal & Stone Work | Banners & Dec 10 cts. | 10 cts.

ARCHITECTS.

OFFICES OF FRANK W. WESTON,

(Late WESTON & HAND, 17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,
BOSTON. GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect, JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93
Water Street, Boston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 485 & 499 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches smil

TO ARCHITECTS OR BUILDERS. A man thoroughly practical, late superintendent arguestate, with twenty years' experience in buseeks employment as above. Good knowledge of disuliding, construction, and erection, in all branches work. Highest references. Terms moderate. Address the control of the control of

Pranklin Press: Rand, Avery, & Co., Beston.

Catalogue of Architectural Books

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correggio, Corley, Reynolds, Greuzs, Lawrence, Musilio, Grards, Raffical, and other celebrated painters, -- forming a series of charming pietures of children and child-life, Quarto, Price, \$10.06. James R. OSGOOD & CO., Boston.





Vol. I. No. 24.7

BOSTON, SATURDAY, JUNE 10, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Boston. New York. Philadelphia.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

FIRE CLAY GOODS.

FIRE BRICK AND TILE,

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARF, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor."— Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure. The most practical Hose for use in FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Teas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOE CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.

S. W. FULLER.
63 Devonshire Street, Box

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., St. Washington St., BOSTON.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

GALVANIZED IRON CORNICES, Campbell's Patent VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenae, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known and the property of the thing of the control of the conduct heat, cold, or sound, and weigh sixty per cent less conduct heat, cold, or sound, and weigh sixty per cent less

onsuct near, cold, or sound, and weigh sixty per cent less han brick.

Fire-proof partitions, floor arches between iron beams, ellings under wooden or iron beams, in the following ulldings:

uildings:—
Vestern Union Telegraph,
bel. and Hudson Canal Co.,
quitable Life Assurance,
Hudson R. R.E. Fr'ght Depot,
Vestminster Hotel,
Windsor Hotel, Der Roll, Bennett, Deland Hudson Canal Co., Statz Zeitung, Equitable Life Assurance, Equitable Life Assurance, Will'msb'g Is asvings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Estimore Safe Deport, Insurance on Wooden Manards reduced ninety cents per \$100. Sidewalks laid at Lenox Library, Tribune, Peabody Museum. Side Sidewalks laid at Lenox Library, Tribune, eac. Hollow Bricks of all kinds. Our Fire-Froot work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public less.

LEONARD F. BECKWITH, President

MINTON'S TILES.

PLAIN AND ENCAUSTIC.

FOR PUBLIC BUILDINGS AND DWELLINGS, As laid by us in

THE CAPITOL AT WASHINGTON.

And in numerous Churches, Banks, and Dwellings in every part of the Country.

Glazed and Enamelled Tiles for Mantels, Hearths, Wain-coting, &c., and for Exterior Decoration.

MILLER & COATES,
279 PEARL STREET, NEW YORK.

Bartlett, robbins, & co.,

ARCHITECTURAL IRON WORK,

ORNAMENTAL IRON WORK, GALVANIZED IRON WORK, HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER Works, cor. Pratt and 8 BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in manuacturers of and Deniers in
omogeneous Bolier and Fire-Box Plates, Plate, Sheet, Pig,
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Angle and T Iron.Bolier and Tank
Rivets, Lap-Welded Iron Bolier Tubes,
Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR.

he only safe and reliable machine made for Passen, Public Buildings and Hotels, and for business purp archouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. Office, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager

HENRY B. JONES & CO. etailers of Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES

KING IRON BRIDGE AND MANU'F CO. CLEVELAND, O.

MANUPACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, fur-ished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM to sleeping room. Alarm given h wire is cut of tampered with, or entrance made. Sure thirs. WM. A. BARNES, 99 WATER STREET, BRIDGEFORT, CORN.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &C., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS

W. J. McPHERSON, Established A. D.

MUBAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTOM.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
So. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Bostom.

WARNER BAILEY, Sign and Ornamental

RE-ENGAGEMENT WANTED by an Architural Designer of ten years' practice in New York
City. Experienced and practical in designing, planning, and superintending buildings of any description. Reference first-class. No objection to leave the city. Address F. VITRUVE, care of E. P. DUTTON & CO.,

713 Broadway, New York.

BUILDERS' SUPPLIES.

CAPE ANN GRANITE COMPANY —Furnish—
GRANITE, BUILDING, AND MONUMENTAL WORK
ALSO GRANITE FLAGGING & PAVING BLOCKS
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTICE: BAT VIEW, GLOCKSTER, MASS.
JORAS H. FREECH, PARTICLE H. H. BENNETT, Tress
SCOTT WEBBER, Supt.

A. STETSON & CO., 173 Tremont St.,
Boston. GAS FITTERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders furnished

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

FULLER, DANA, & FITZ,
110 Nerth Street, Boston.

METAL MERCHAN'IS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.

Exclusive Boston Agents for the sale of The Union
ROOF MILLS' Solid WROUGHT IRON BEAMS, and The
"BUEDEN BEST" IRON, Tensile Strength 18,000 lbs.

M. W. PEIRCE & CO., STEAM, GAS, AND KEROSENE FIXTURES, 117 AND 119 COURT STREET, BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND WATTLATING APPARATUS. Gas Lighting Apparstus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston.

MURDOCK PARLOR GRATE CO. Parlor TUREES of every description. The ONLY MANUFAC-TUREES of these goods in New England. No. 11 Marshall Street, Bos on.

GEO. F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON. PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTOK, GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

PROPOSALS.

PROPOSALS FOR STONE AND BRICK

WORK.

OFFICE OF SUPERVISING ARCHITECT.
TREASURT DEPARTMENT, WASHINGTON, D.C.
JURE 10, 1876.
Sealed proposals will be received at this office until 12 m.
of the twenty-seventi day of June, 1876, for all the Stone
and Brick Work required in the construction of the Basement and Rear Area Walls of the U.S. Coart House and
Post Office, at Nashville, Tenn., in scoordance with drawings marked Nos 2 and 4, and the specification.
Copies of the drawings, specification, form of proposal,
and any additional information, may be had on application
at this office, or at the office of the Superintendent at the
building.

WM. A. POTTER, Supervising Architect.

Sealed proposals will be received at the office of the Consulting Architect, Nathaniel J. Bradley, 18 Femberton Square, until Juer 1, 1865 at 12 o'clock M. for completely ultilabling received for the State Hospitud for the Inaneat Darvers; also for the erection and completion of barn or sable, fences, &c., and building or repairing the station, farmhouse, and other outbuildings. The proposals may be offered singly or jointly for the following works; viz., mason work, carpenter work, plumbing, plastering, gas works, gas fixtures, and apacifications may be seen at the office on the grounds. The Commissioners reserve the right to reject any and all bids. 8AMUEL C. COBB, C. C. ESTY, EDWIN WALDEN, Commissioners NOTICE TO CONTRACTORS.

STATE PENITENTIARY. — The undersigned commissioners under an act of the State of Texas, approved February 18, hereby advertise for proposals of pians, specifications, and other particulars, for the proper and substantial building and completion of two penitentiaries in said State, in conformity to the modern forms of constructing public prisons, which have proven to be the best for the health and comfort of the convicts. One of said penitentiaries to be built about two miles north of Rusk, in Cherokee County, with a view of utilizing in manufactures the iron orea which abound in this section of the State; the other to be built at the head of the San Marcos River, in Hayee County, in contemplation of the manufacture of cotton, wool, leather, and other goods and fabrics, that will not come into competition with the personal industries of the mechanical extension of the contemplation of the manufacture of other competition with the personal industries of the mechanical first day of July, 1877; and parties making proposals of pians, &c., for both of either of said penitentiaries, will state upon what terms and for what amounts they will build the same, and will, in connection with said proposals, farmsh due guarantics of their abilities to build and complete the amend will, in connection with said proposals, farmsh due guarantics of their abilities to build and complete the amend all proposals will be addressed to E. L. Gregg, at Rusk, Cherokee County, Texas. The commissioners expressly reserve the right to reject any and all proposals, and hereby give notice that no compensation will be made for any proposals, plans, &c., which may be submitted under this adpossis, plans, &c., which may be submitted under this advertisement. W. W. LANG, ED, BURLESON, B. W. BROWN, E. L. GREGG, Commissioners.

HEATING APPARATUS. — Bids will be received until 12 m., June 15, for heating the buildings of the Institution for the Deaf and Dumb, at Council Bluffs, 10. Bidders will furnish their own specifications; but twenty-four Heliotype Plates, from Correspond, Corporated directions will be furnished them on application to will saw and, Superintendent, Council Bluffs, Io. By will saw Mard, Superintendent, Council Bluffs, Io. By will saw Mard, Superintendent, Council Bluffs, Io. By coldent of charming pictures of children and child-life. Quarto.

Price, \$10.00. James R. OSGOOD & CO., Boston.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance, Corporation of Charming a series of Children and child-life. Quarto.

JAMES R. OSGOOD & CO., Publishers, WINTHROP SQUARE.....BOSTON.

PROPOSALS.

STATE EDUCATIONAL INSTITUTION. STATE EDUCATIONAL INSTITUTION.

—Proposals for furnishing material and the erection of the main building of the Institution for the Education of the Bind, in the city of Janeaville, Wis, according to the plans and specifications thereof, will be received by the undersigned, at his office, No. 6 East Milwaukee Street, Janeaville, Wis, until 12 o'clock noon, June 15, 1876. The plans and specifications may be examined at the office of A. Anderson, architect (under whose supervision the work will be done), at No. 37 West Milwaukee Street, Janeaville, from and after June 1, 1876. Proposals may be made separately for mason work, inclinding the cast-iron work connected the rewiting the control of the service of the Control of the Control



(SHEET METAL.)

New Catalogue Free to All. Architects send Business Card.

THE KITTREDGE CORNICE AND ORNAMENT CO.,

SALEM, Ohio.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our B-iler, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Boiler, especially, is easy to erec; efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working had private neathly satisfact the past winter; and its working had private neathly satisfact the past winter; and its working had private with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by LE BOSQUET BROS.

Haverhill, and 14 Bedford Street, Boston.

THE WAKEFIELD EARTH CLOSETS



Every person erecting a new house should investigate the

Dry Earth System,

WAKEFIELD CLOSETS,

the best and most satisfactory yet invented. They are indiapensable in every country house, and should aupplant everywhere that

ACCURSED ABOMINATION.

The common out-door privy.

Dr. A. B. PALMER, in an admirable article in the Michigan Medical Journal, thus sums up the advantages of the earth loset system, as follows:—

1st, To afford a comfortable closet on any floor of the nouse, which may be supplied with earth and cleansed of its leposits, without annoyance or inconvenience.

4d. A portable commode in any dressing-room, bedroom, or closet, the care of which is no more disagreeable than that of a stove.

or closet, the care of which is no more discussion of a stove.

3d. Appliances for the use of immovable invalids, which entirely remove the unpleasant accompaniments of their entirely remove the unpleasant accompanies.

care.

4th, The removal of the most fertile source of typhoid fever and various other diseases.

5th, The complete suppression of the odors which, despite the comfort and elegance of modern living, still hang about our cesspools and privy-vaults, and attend the removal of their contents.

6th, The complete deodorization of the bucket so commonly used in jails and prisons.

7th, The realization of a fertilizer of material value to the arriculturist.

THE WAKEFIELD EARTH CLOSET CO..

34 DEY STREET, NEW YORK,

For their descriptive pamphlet.



YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESBOOM.

No. 53 Chambers Street, New York.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

The American Architect and Building News.

ISSUED EVERY SATURDAY.
Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER.

86 North St., Boston.

sem Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



S. P. TOLMAN & E. A. HUNTING, GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents. MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS.

Drain and Sewer Pipe, Fire-Brick and
Tile, Land Tile.

American, Roman, and Portland Cement,

LIME, SAND, &c.
WALDO BROTHERS,

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEAGON STREET, WEAR TREMONT, BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.
This school offers a four-years' scientific and professional training for Chemists. Metallurgists. Civil, Mechancal, and Mining Engineers, Architects, Teachers of Science,
and Manufacturers.

and Mining Engineers, Archives, and Mining Engineers, Archives, in Manufacturers.

But Courses in Architecture embraces, besides the newary scientific and mathematical studies, the atudy of bitteetural history, and the constant practice of original studies.

rchitectural nistory, and the contains present as easign.

Special students in Architecture are received into a twocars' special course.

For particulars address William R. Ware, Esq., Prosser of Architecture, or Dr. Samuel Kneeland, Secretary.

Boston, Feb. 1, 1876.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from ir own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon.

E. Hixon, jun Fred. Reed.

ARCHITECTURAL IRON WORK.

A practical work for Iron Workers, Architects, and Engineers, and all whose trade, pr.fession, or business connects them with Architectural Iron Work; showing the organization and mechanical and financial management of a foundry and shops for the manufacture of Iron Work for buildings: with specifications of Iron Work, useful tables, and valuable suggestions for the successful conduct of the business. By W. I. Fryer, iun. With Illustrations. I vol., 8vo., cloth, \$3.50. Published and for sale by

JOHN WILEY & SONS, 15 Astor Place, New York.
*.*Will be mailed and prepaid on the receipt of the price.

LIENARD'S DECORATION AND ORNAMENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By LIENARD.
Reproduced by the Heliotype Process. Upwards of 120
designs, rich in hints to Architects and Decorators. 1 vol.
folio, boards, \$27.00. Half morocco, cloth sidea, \$30.00.

JAMES R. OSGOOD & CO., BOSTON.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

A G E N T S.

Roston.—Parsons & Torry, 638 Washingon at; Pitkin Bros. Charlestown at; Allen & Noble, 94 Hanover et; Bogmau & Vinal, Dock ey; Farless & Boynton, 13 Corntill; Gardner & Chandler, 21 Washington et; B. L. Solomon & Sons. 49 Franklin street. 21 Washington et; B. L. Solomon & Sons. 49 Franklin street. New York City.—A. Hammacher & Co., 399 Bowery; A. Hilotson & Co., 5 Dey st; O. A. Nathusias, 229 Bowery; M. F. L. Sillotson & Co., 5 Dey st; O. A. Nathusias, 229 Bowery; W. F. Lubinger, 198 Grand et; C. A. Stock, 116 Wooster street. Hrooklyn, (E. D.) N. Y.—Hermann Weber, 134 Graham av. Albany.—Manrice E. Vliet, 41 State et.

Rochester.—Follock, Weaver, & Co., 17 Buffalo et.

Rochester.—Follock, Weaver, & Co., 17 Buffalo et.

Rochester.—Follock, Weaver, & Co., 17 Buffalo et.

Noblit, Brown, Noblit, & Co., 229 S., 26 st; B. L. Middleton, 817 24 st; B. L. Solomon & Sons. 21 N. 24 st; F. A. Bueren, 435 E.

24 st; B. L. Solomon & Sons. 21 N. 24 st; F. A. Bueren, 435 E.

24 st; B. L. Solomon & Sons. 21 N. 24 st; F. A. Bueren, 435 E.

et; Noblit, Brown, Noblit, & Co., 208. S. d. 18. L. Middleton, 817. N. 2d st; F. L. Middleton, 817. N. 2d st; B. L. Solomon & Sone, 31 N. 2d st; F. A. Bueren, 439 E. Dauphin st; Thomas Knight & Co., cor. Ridge ave, and Green st. Pittaburg.—Joseph Woodwell & Co., cor. 2d ave, and Wood st. Baltimore.— C. Sidney Norris & Co., 3d Hanover st; John Duer & Sons, 44 South Charles st; Warfield & Bohr, 62 So. Sharp st. Wu Hechand, Co., 45 Warf St. Warfield & Bohr, 62 So. Sharp st. Wu Hechand, Co., 45 Warf St. Warfield & Bohr, 62 So. Sharp st. Wu Hechand, Co., 45 Warf St. Chicagon, C. J. L. Wayne & Son, 74 Randolph st; A. A. Ulrich & Co., 16 Firsh ave; J. Liebenstein & Co., 22 Randolph st; A. A. Ulrich & Co., 16 Firsh ave; J. Liebenstein & Co., 22 Randolph & St. Louis.—Geo. A. Rubelmann & Co., 82 N. 6d st. Wushington.— F. P. May & Co., 64 Pennyivania venue. San Francisco.— B. L. Solomon & Sons, 40 Market street. Montreast.—James Walker & Co., 168 S. James st. Hamilton, Dut.—Watson & Thompson, 16 McNab st. Barrelloo, and S. Ons, 10 Market street. Montreast.—James Walker & Co., 168 S. James st. Hamilton, Dut.—Watson & Thompson, 16 McNab st. Barrelloo, and S. Durchased of the above Aconis at the Server of the street of the above Aconis at the Server of the street of the above Aconis at the Server of the street of the above Aconis at the Server of the street of the above Aconis at the Server of the street of the above Aconis at the Server of the street of the str

Our goods can be purchased of the aborices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON.

56, 58, & 60 Park St., New York, METAL WORKERS.

Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c., MADE TO ORDER.

CATALOGUE OF



Architectural Books Mailed free to any address.

All architectural and Scientific Books

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

New York Sketch-Book Architecture.

THIRD YEAR. 1876. PRICE 86 PER YEAR, OR 85 IF PAID IN ADVANCE.

JAMES R. OSGOOD & CO., Publishers, Boston.

ESTABLISHED 1888.

Palmer, Parker, & Co.

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, WHITE HOLLY, MAHOGANY, THUYA, ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, FIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

PLUMBERS' SUPPLIES

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, JENNINGS' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, atent Latrines, and other specialties (the peculiarity of all of which is the thorough exusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

The Art Furnishing Rooms,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, AND ART

TILES.

FOR FURNITURE, DECORATION,

AND BATHROOM LININGS.



Contractor for Tile Work in DWELLINGS AND

PUBLIC BUILDINGS.

A Fine Assortment of
FIRE-PLACE LININGS, HEARTHS, AND HALL, VES-TIBULE, AND BANK

FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etch-

No. 170 TREMONT ST., BOSTON.

Boston Ornamental Iron Works

MANUPACTURE ALL KINDS OF



GARDEN STATUARY,

WEATHER VANES.

AND

BUILDERS' HARDWARL

Estimates given on all kinds or work.

Send Stamp for Catalogue. BUBIER & COMPANY

118 MILK STREET, BOSTON.



J. & R. LAMB, 59 Carmine St., New York.

CHURCH FURNITURE.

Yorkers in Wood, Metal and Stone for Church purpose lusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decor 10 cts. | 10 cts. | 10 cts.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,
BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS
P. BOGERS, Architecta, 17 Pemberton Sc. Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square

L. S. IPSEN, Architect, 29 Pemberton GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS,
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

TO ARCHITECTS OR BUILDERS. - A A man thoroughly practical, late superintendent on a large estate, with twenty years' experience in building, seeks employment as above. Good knowledge of drawing, building, construction, and erection, in all branches of the work. Highest references. Terms moderate. Address MECHANIC, 842 Washington St., Boston, Mass.

Franklin Press: Rand, Avery, & Co., Boston.

SCREEN BOORS THE UNION SPRING HINGES cting only \$1.00. Double acting \$2.00 per pain

C. H. HALL, Stair Builder, and Manufacton. Posta Rails, Balusters, & Office Rails, furnished to order



MABEL MARTIN. A Harvest idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. Isamus. \$1.50.

JAMES R. OSGOOD & CO., BOSTOR.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

. For eale by Bookselters. Sent postpaid, on receipt of Price, by the Publishers,

JAMES R. OSGOOD & CO., BOSTON.





Vol. I. No. 25.]

BOSTON, SATURDAY, JUNE 17, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Boston. New York. Philadelphia.

JAMES EDMOND & CO.

MANUPACTURERS AND IMPORTERS OF

PIRE CLAY GOODS.

FIRE BRICK AND TILE.

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARP, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

TIN-LINED IRON A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube

ohining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS. 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor."— Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
Washington St. BOBERT GEMS, Treas. — Salesroom, 339 Washington St., BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

IO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES. Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE

S. W. FULLER, 63 Devonshire Street, Bos

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Boe'on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

CALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 367 Harrison Avenue, Boston.

HENRY B. JONES & CO. Importers, Jobbers, and R. Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 367 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions door are the hollow the proof partitions door are the strongest cement.

re-proof partitions, floor arches between iron beams, ngs under wooden or iron beams, in the following

ceilings under wooden or iron beams, in the following buildings:
Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Wil mab ig havings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Windsor Hotel, Insurance on Wooden Manards reduced interty cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Frontwork is the only one approved by the Sew York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK ORNAMENTAL IRON WORK,

GALVANIZED IRON WORK. HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER! A SPECIALITY. Works, cor. Pratt and

BALTIMOBE, MD.

JOHN H. REED & CO. IRON MERCHANTS

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in mogeneous Boiler and Fire-Box Piates, Plate, Sheet, Pig. and Railroad Iron. Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron.Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR.

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York

OTIS TUFTS, President.

L. A. BIGRLOW Treas'r and Gen'l Man

FULLER, DANA, & FITZ, 110 NORTH STREET, BOSTON. METAL MERCHANTS. Importers of ROOFING PLATES AND IRON, USED IN BULLDINGS. Exclusive Boston Agents for the sale of TRE USION IRON MILLS' Solid WOUGHT IRON BRANS, and TRE "BURDEN BRET" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLET STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest ceitmates.

Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, far-nished in large or small quanties, by GEO, BARNEY, Swanton, VL Send for Circular and Price List.

L'LECTRIC ANNUNCIATORS, DOOR L'AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure things. W.M. A. BARNES, 99 WATER STREET, BEIDGEFORT, CONN.

J. CARTISSER, (ESTABLISHED 1858).
FOR HOUSE, STEAMBOATS, RAILROAD CARS, OFFICES, &C. No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Cours St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Boston.

WARNER BAILEY, Sign and Ornamental

RE-ENGAGEMENT WANTED by an Architural Designer of ten years' practice in New York City. Experienced and practical in designing, planning, and superintending buildings of any description. Reference first-class. No objection to leave the city. Address ass. No objection to leave the city. Address F. VITRUVE, care of E. P. DUTTON & CO.,

718 Broadway, New York.

BUILDERS' SUPPLIES.

CAPE ANN GRANITE COMPANY Furnish—GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOCOSSTER. MASS.
JONAS H. FRENCH, Pres. H. H. BEKKETT, Treas.
SCOTT WEBBER, Supt.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 567 Washington St., BOSTON.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON. PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

PROPOSALS.

PROPOSALS FOR STONE AND BRICK

WORK.
OFFICE OF SUPERVISING ARCHITECT.
TREASURY DEPARTMENT, WASHINGTON, D.C.
June 10, 187

TREASURY DEPARTMENT, WASHINGTON, Dune 10, 1876. Sealed proposals will be received at this office until 12 M. of the twenty-seventh day of June, 1876, for all the Stone and Brick Work required in the construction of the Basement and Rear Area Walls of the U.S. Court House and Post Office, at Nashville, Tenn, in accordance with drawings marked Nos 2 and 4, and the specification. Copies of the drawings, specification, form of proposal, and any additional information, may be had on application at this office, or at the office of the Superintendent at the building.

WM. A. POTTER, Supervising Architect

PRICK FACTORY. — Proposals will be received at the office of the undersigned, for furnishing the material and labor necessary to construct a brick factory in accordance with plans and specifications to be seen at their office. The right to reject any and all propositions is reserved. THE MORRIS & IRELAND SAFE CO., 44 BOSTOK, June 13, 1876.

Bostox, June 13, 1876.

INSANE HOSPITAL. — Scaled proposals
will be received at the office of the Consulting Architees, Nath. J. Bradlee, 18 Pernberton Square, until June 17,
1876, at 12 o'clock m. for completely finishing ready for
occupancy all the buildings now in process of erection for
the State Hospital for the Insane, at Danvers, also for the
erection and completion of Darn or stable, fences, &c., and
buildings or repairing the station, farmhouse, and other outbuildings. The proposals may be offered singly or jointly
for the following works; viz., mason work, carpenter work,
plumbing, plastering, gas works, gas fixtures, and painting.
Plans and specifications may be seen at the office on the
grounds. The Commissioners reserve the right to reject
SAMUEL C. COIB, C. C. ESTY, EDWIN WALDEN,
Commissioners.

Rostox, May 29, 1668.

Commissioners. Boston, May 29, 1876.

Bostox, May 29, 1876.

BRIDGE. — Bids will be received at the office of the Commissioners of Hamilton Co., O., in Cincinnati, until July 1, at 12 M., for masoury of the abutments of a bridge across Millereck, on the road from Harrwell to Lockland, in Sycamore township. Specifications can be seen at this office. Also, for an iron superstructure at the same place; clear span, eighty feet; clear roadway, eighteen feet. Bidders will furnish their own plans and specifications therefor. A full and complete strain sheet to accompany each plan. Said bridge must be of sufficient strength to sustain one hundred pounds per square foot of foor surface beside its own weight; factor of affety, four hundred and fifteen thousand tension, twelve thousand dwe hundred compression. Payments will be made in Hamilton County bonds, bea ing interest at seven per cent. By order of Commissioners. JOSEPH B. HUMPHIREYS. Auditor.

COUNTY PRISON EXTENSION.—Proposals will be received by the Commissioners of Schuykill County, at their office in the county court house, Pottsville, Penn., until 4 P.M., June 28, for the roofing, plumbing, and gas-fitting, plastering, planting, and gas-fitting, plastering, planting, and gas-fitting, plastering, planting, and glazing, required for the extension of the Schuykill County Prison. Each of said proposals to be indorsed separately as above enumerated. Plans and specifications of the work may be seen at the Commissioners' office until June 24. MORGAN W. FEHR, LOUIS BLASS, PATRICK COLLINS, Commissionera. E. A. SCHARTEL, Clerk.

MASON WORK. — Bids will be received at the office of the clerk of the Hoard of Education of Cleveland, O. until 12 M., Monday, June 26, for the mason work on the Maythwer School addition. Plans and specifications may be seen, and blank proposals obtained, at the clerk's office on and after June 12. The bids for labor and materials must each be separately stated with the price thereof. No proposal will be entertained unless made on the blanks furnished by the board. F. M. SANDERSON, Charman Building Committee.

Chairman Building Committee.

TOWN BUILDING. — Proposals will be received by the clerk of the incorporated village of Harrison, Hamilton Co., O, until Iz w. Thursday, June 22 for the erection of a new town hall building. It will be understood by each bildder that a reserve of fifteen per cent will be held until the building is completed and accepted by the Superintending Architect and Building Committee. Work to commence immediately after the letting. For plans and specifications call on the undersigned, town clerk, Harrison, O.; or on Parsons & Co., architects, Indianapolis, Ind. By order of the council. J. F. MCMANAMAN, Town Clerk.

Protect Your Houses

ACAINST

DAMAGE BY WATER.

BY USING

WELLINGTON'S

Patent Wash-Bowl.

The use of this new and invaluable improv ment precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordiary Wash-bowl.

For descriptive circulars, address

L. S. MOORE & CO.,

40 Oliver Street, Boston.

E. & G. G. HOOK & HASTINGS.

Builders of

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our B-filer, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Botier, especially, is easy to erect, efficient in operation, and moderate in cost. Fartles who have a preference for this method of heating should examine this Botier at our salessoums. It has been in practical operation in buttings an extended the state of the property of the state of the state

LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston.

THE WAKEFIELD EARTH CLOSETS

Every person erecting a new house should investigate the

Dry Earth System,

WAKEFIELD CLOSETS.

the best and most satisfactory yet invented. They are indispensable in every country house, and should supplant everywhere that

ACCURSED ABOMINATION,

The common out-door privy.

Dr. A. B. Palmer, in an admirable article in the Michigan Medical Journal, thus sums up the advantages of the carth cluster system, as follows:—able closet on any floor of the house, which may be supplied with earth and cleansed of its deposits, without annoyance or inconvenience.

2d. A portable commode in any dressing-room, bedroom, or closet, the care of which is no more disagreeable than that of a stove.

3d. Appliances for the use of immovable invalids, which entirely remove the unpleasant accompaniments of their care.

carriery remove the unpleasant accompaniments of their care.

4th. The removal of the most fertile source of typhold fever and various other diseases.

5th. The complete suppression of the odors which, despite the comfort and elegance of modern living, still hang about our cesspools and privy-vaults, and attend the removal of the complete decolorization of the bucket so commonly used in jails and prisons.

7th. The realization of a fertilizer of material value to the agriculturist.

THE WAKEFIELD EARTH CLOSET CO., 34 DEY STREET, NEW YORK,

For their descriptive pamphlet



W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

FOR SALE,

CÉSAR DALY'S "MOTIFS HISTORIQUES D'ARCHI-TECTURE ET DE SCULPTURE D'ORNAMENT." 2 vols., Folto. 2 Red Morocco. Gilt top and back. Entirely new.

OWEN JONES'S "GRAMMAR OF ORNAMENT." Fello
Ed. Cloth, gilt.

ARCHITECT'S NOTE-BOOK IN SPAIN." DIGBT
WYATT. I vol. Cloth, gilt, with 100 Autotype illustra-

For prices, which will be low, apply to CHARLES RULE, Symmes, Hamilton Co., Ohio,

THE CAPITALIST'S PAPER.

The Chicago Real Estate and Building Journal

Is published weekly, at 93 Washington Street,

BY S. A. CHAPPELL & CO.

BY S. A. CHAPPELL & CO.

Each number contains the Full RECORD for one week of

Every Document filed in Cook County,
in the Recorder's office;

Every Judgment by the Courts, and a list of

every Foreclosure Sale

to be held in Cook County during the four weeks following

each weekly issue; besides

A thorough resume of the Land Market and

Financial News, local and general;

Reports of all Public Proceedings; Building

News (thoroughly treated), General

Items, &c., &c. \$10.00 PER YEAR,

Payable quarterly, half-yearly, or yearly, in advance.

HOMES AND HOW TO MAKE THEM.

89 20 AND BY E. C. GARDNER. Illustrated. 1 vol. square 12mo. JAMES R. OSGOOD & CO., BOSTON.

Parlor Grates.

FOR HEALTH AND COMFORT.



H. M. CREAMER.

86 North St., Boston.

send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs urnished for special subjects.

Artistic Monuments in Granite and Bronze

The Rogers Patent Wooden Houses

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



S. P. TOLMAN & E. A. HUNTING, GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents-MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Pire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS, No. 94 Water Street, Boston

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NEAR TREMONT, BOSTON.

MASS. INSTITUTE OF TECHNOLOGY. This school offers a four-years' scientific and profes i training for Chemists, Metallurgists, Civil, Mechaniand Mining Engineers, Architects, Teachers of Science

and Mining Engineers, Aromoso, and Mining Engineers, Aromoso, il Manufacturers.

Hanufacturers.

HE COURSE IN ARCHITECTURE embraces, besides the new account of the constant practice of original intectural history, and the constant practice of original constant of the constant practice of original constant of the constant practice of original constant of the consta

architectural history, and the constant particle design.

Special students in Architecture are received into a two-years special course.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. Namuel Kneeland, Secretary.

Boston, Feb. 1, 1876.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESBOOM

No. 53 Chambers Street, New York.

BURDITT & WILLIAMS,

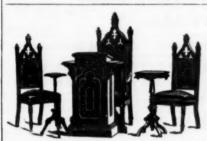
BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns

ze and Brass Hardware manufactured to order from 20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WALEHAM STREET.



Set Complete in Terry, \$75.

Set Complete in Plush, \$90.

LODGE AND CHURCH FURNITURE

A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

ms, 27 Sudbury, and 69 & 71 Portland Streets, Bost

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON. Fred. Reed,

E. Hixon,

E. Hixon, jun



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

A G E N T S.

Boston.—Parsons & Torry, 636 Washingon et; Pitkin Bros. Charlestown st; Allen & Noble, 34 Hanover et; Bogman & Vinal, Stock eq; Farless & Boynton, ik Cornhill; Gardner & Chandler, Providence, R.I.— Belcher Bros. Gardner & Chandler, Providence, R.I.— Belcher Bros. 25 Wester et al. New York City.—A. Hammacher & Co. 259 Bowery; B. J. Tillottson & Co. 8 Dey st; O. A. Nathusius, 229 Bowery; B. Lolomon & Sons, 639 Broadway; E. R. Krumm, 121 Essex street; has. E. Kugler, 10 Division et; Speyer Bros, 110 Bowery; W. F. Lubinger, D8 Grand et; C. A. Stock, 116 Wooster street.

Brooklya, (E. D.) N. Y.—Hermann Weber, 134 Grahamav. Albanay.—Maurice E. Viele, 41 State et.

Rochester.—Pellote, Weaver, & Co., 17 Buffalo et.

Buffalo.—C. H. Utley, & Parl st.

Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 26; Noblit, Brown, Noblit, & Co., 222 S. 26 st; B. L. Middleton, 917, Noblit, Brown, Noblit, & Co., 27 Ridge av., and Green & Bunnin et. Thomas Knopth & Co., 28, Ridge av., and Green & Bunnin et. Thomas Monthy.

Charlemant. - Checkler & Kuhiman, 203 Asin H; 3. L. ayne & Son, 124 Main H; 4. A. Illirich Co, 16 Fifth ave; J. Liebenstein & Co, 22 Randolph H. Betroit, - Buhl, Duchanne, & Co, 108 Woodbridge street. St. Louis. - Geo. A. Rubelmann & Co, 827 N. 6th st. Wushington. - F, P, May & Co, 64 Fennsylvania evenue. Man Francisco. - B. L. Solomon & Sons, 410 Market street. Montreal. - James Walker & Co, 165 St. James Qu. Quebece. - S. J. Shaw & Co, 7 St. John St. Hamilton. Ont. - Watson & Thompson, 16 McNab st.

Our goods can be purchased of the above Agents at the prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON. 56, 58, & 60 Park St., New York,



MADE TO ORDER.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books applied at publishers' prices.

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

THE ART FURNISHING ROOMS, C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Fa Etchings and Engravings. No. 170 Tremont St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

JAMES G. WILSON, Manager, 218 West 26th St., New York. and at London, Paris, Vienna, Berlin, Melbourne, &c.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

VEER

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, WHITE HOLLY, ROSEWOOD, etc., MAHOGANY. THUYA.

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.



SEWERGASSHUTOFF!

JENNINGS' SPECIALTIES

JENNINGS' PATENT SIX. JENNINGS' PATENT WATER CLOSETS, ENNINGS' PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.
A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

ARCHITECTURAL

(SHEET METAL.)

New Catalogue Free to all Architects. Se Business Card.

THE KITTREDGE CORNICE AND ORNAMENT CO.,

SALEM, Ohio.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IROX For Building

IBON AND WIRE RAILING, IRON CRESTINGS. IRON STABLE FIXTURES.

FOUNTAINS.

GARDEN STATUARY.

WEATHER VANES, AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work. Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON



J. & R. LAMB, 59 Carmine St., New York.

CHURCH FURNITURE.

orkers in Wood, Metal and Stone for Church purpose usively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. Wood Work | Matal & Stone Work | Banners & Deco 10 cts. | 10 cts. | 10 cts.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 485 & 490 HARRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchoster, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Rails, Balusters, & Office Ralls, furnished to order.

TO ARCHITECTS OR BUILDERS. - A man thoroughly practical, late superintendent on a large estate, with twenty years' experience in building, seeks employment as above. Good knowledge of drawing, building, construction, and erection, in all branches of the work. Highest references. Terms moderate. Address MECHANIC, 842 Washington St., Boston, Mass.



ART FOLIAGE. By J. K. COLLING. 1 vol.

**FOR sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,

JAMES R. OSGOOD & CO., Boston.

The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,

WINTHROP SQUARE BOSTON

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART. DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advan

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 121 cents per line (agate), or \$1.75 per inch (fourteen lines) one innertion. One inch, one month One inch, three months One inch, nine months

Pranklin Press: Rand, Avery, & Co., Boston.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, Late WESTON & RAND, (17 Pemberton Sq. Boston.)
ARCHITECT, 178 DEVONSHIRE ST., AND 23 FEDERAL ST., BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

ENGRAVINGS FROM LANDSEER, Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Chailenge," "Chillingham Red Deer," "The King of the Forest." The Monarch of the Glen," "High Life," "Low Life," "Laying Down the Law," "Slocing the Bay Mare," and others of equal beauty, Quarto. Price, 819,00.

JAMES R. OSGOOD & CO., BOSTON.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTER. Popular Edition. 21 Illus-trations. 18mmo. \$1.50. JAMES R. OSGOOD & CO., BOSTOR.







Vol. I. No. 26.]

BOSTON, SATURDAY, JUNE 24, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Boston, New York, Philadelphia.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

FIRE CLAY GOODS,

FIRE BRICK AND TILE.

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARP, 394 FEDERAL STREET, BOSTON.

(Just South of Kneeland St.)

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite ir all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Ples should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,
QUARTYMAN, and Wholesale Dealer in
BUILDING STONE,
OHIO STONE, FROM BEELIN, AMHERST, AND BERKA QUARRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOE CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BUBGLAR ALARMS,
For Public and Private Buildings.

THE BEST IN USE.
S. W. FULLER,
63 Devonshire Street, Bos

MURDOCK PARLOR GRATE CO. Parlor TURERS of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 129 Tremont Street. Boston.

GALVANIZED IRON CORNICES, Campbell's Patent Ventilating SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 881 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting attength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh aixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:—

western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Wilmab ig Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Savings Bank, Tolumbia College, Wilmab ig Wi

LEONARD F. BECKWITH, President.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,

ORNAMENTAL IRON WORK, GALVANIZED IRON WORK

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING. HEATING AND VENTILATING BY HOT WATER!
A SPECIALITY.

Works, cor. Pratt and BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY.

Manufacturers of and Dealers in manuacturers or and Dealers in
Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Plg.
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Angle and T Iron,Boiler and Tank
Hivets, Lap-Weiled Iron Boiler Tubes,
Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS.

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

he only safe and reliable machine made for Passenger use Public Buildings and Hotels, and for business purposes in Tarchouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUPTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS. Importers of ROOFING PLATES
AND 1RON, USED 18 BUILDINGS.
Exclusive Boston Agents for the sale of The Usion
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDEN BEST" INON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLET STREET, BOSTOE, GLAZED SEWER DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent

S. A. STETSON & CO., 173 Tremont St., S. Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. GAS Pipe, and Fitting in all its Branches. Architecta, Contractors, and Builders furnished with the lowest estimates.

HENRY B. JONES & CO. Retailers of PAPER HANGINGS, 412 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, fur-nished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

LECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TLEEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BEIDGEFORT, CONN.

J. CARTISSER, (ESTABLISHED OENAMENTAL, EMBOSSED, AND CUT FOR HOUSES, STEAMBOATS, RALLROAD OFFICES, &c., No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Course.

ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER.

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 4ff Washington St., BOSTON.

WALWORTH MANUFACTURING CO.
STEAM AND HOT WATER WARMING ANI
VENTILATING APPARATUS. Gas Lighting Apparatus
Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

BUILDERS' SUPPLIES.

CAPE ANN GRANITE COMPANY

—Furnish—
GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & FAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quartes: BAY VIEW, GLOUCESTER, MASS.
JORAS B. FRENCH, THE H. H. BENNETT, Treas.
SCOTT WEBBER, Supt.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTOE. PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

PROPOSALS.

PROPOSALS FOR RED AND GRAY GRAY GRAYLE, BRICKS, LIME, AND SAND.

PROPOSALS FOR RED AND GRAY GRANITE, BRICKS, LIME, AND SAND.

OFFICE OF SUPERVISING ARCHITECT,

TREASURT BEFARTMENT,

WELLINGTON, D. C., June 20, 1876.
Sealed proposals will be received to the control of the eleventh day of July, 1876, for furnishing and delivering at the site of the United States Custom House, &c., building, Fall River, Mass., all the red and gray granite required for the superstructure, &c., cut ready for setting, in accordance with plans, specification, and schedule; also for three hundred and seventy thousand (370,000), more or less, hard burned red bricks, sound and free from limestone, of the best quality, taken from the heart of the kiln; and seven hundred and fifty (180) barrels, more or less, of stone lime, (two and a kaif bushels per barrel), of the best quality; and a hundred and seventy (170) cubic yards of clean sharp river sand. Belivery of the bricks, lime, and sand to be in such reas of the building.

Bidders will submit with their proposal a sample of such material as they propose to supply.

Copies of the bricks, lime, and may be had on application at this office, or at the office of the superintendent at the building.

The Department reserves the right to reject any or all bids, or any portion thereof, if it be deemed in the interest of the Government to do so.

Proposals must be enclosed in sealed envelopes, endorsed, Proposals must be enclosed in se

PROPOSALS FOR STONE AND BRICK

WORK.

OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT, WASHINGTON, D.C.
June 10, 1876.
Sealed proposals will be received at this office until 12 M.
of the twenty-seventh day of June, 1876, for all the Stone
and Brick Work required in the construction of the Basement and Rear Area Walls of the U.S. Court House and
Post Office, at Nashville, Tenn, in accordance with drawings marked Nos 2 and 4, and the specification.
Copies of the drawings, specification, form of proposal,
and any additional information, may be had on application
at this office, or at the office of the Superintendent at the
building.

WM. A. POTTER, Supervising Architect

WM. A. POTTER, Supervising Architect.

PRIDGE. — Bids will be received at the office of the Commissioners of Hamilton Co., O., in Cinclinaid, until July I, at 13 M., for masoury of the abutements of a bridge across Millereck, on the road from Hartwell to Lockland, in Sycamore township. Specifications can be seen at this office. Also, for an iron superstructure at the same place; clear span, eighty feet; clear roadway, eighteen feet. Bidders will turnish their own plans and specifications therefor. A full and complete strain sheet to accompany each plan. Said bridge must be of sufficient strength to sustain one hundred pounds per square foot of floor surface beside its own weight; factor of safety, four hundred and fifteen thousand tension, twelve thousand dive hundred compression. Payments will be made in Hamilton County bonds, bearing interest at seven per cent. By order of Commissioners. JOSEPH B. HUMPHREYS, Auditor.

COUNTY PRISON EXTENSION. - Proposals will be received by the Commissioners of DUBLY FRESON EXTENSION.—Proposals will be received by the Commissioners of
Schnykill County, at their office in the county court house,
Pottsville, Penn., until 4 P.M., June 28, for the roofing,
plumbling, and gas-fitting, plastering, painting, and glazing,
required for the extension of the Schuykill County Prison.
Each of said proposals to be indorsed separately as above
enumerated. Plans and specifications of the work may be
seen at the Commissioners' office until June 24. MORGAN
W. FEHR, LOUIS BLASS, PATRICK COLLINS, Commissioners. E. A. SCHARTEL, Clerk.

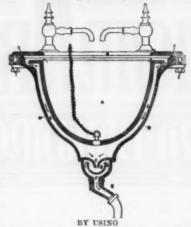
MASON WORK. — Bids will be received at the office of the clerk of the Board of Education of Cleveland, 0. until 12 m., Monday, June 26, for the mason work on the Mayflower School addition. Plans and specifications may be seen, and blank proposals obtained, at the clerk's office on and after June 12. The bids for labor and materials must each be separately stated with the price thereof. No proposal will be entertained unless made on the blanks furnished by the board. F. M. SANDERSON, Chairman Building Committee.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMBRIC-DAVID, member of the Institute of France.

This volume contains twenty-four Flates, reproduced in Tac-simile and with admirable success by the Heiotype Process. The subjects represented are Tac Visitation, "The Holy Samily (two represented are Tac Visitation, "The Holy Samily (two represented are Tac Visitation, and "The Hearing of the Cross." Quarto, Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON

Protect your Houses against Damage by Water,



Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement preclude ill possibility of overflow, by which buildings are so ofter stanged to the extent of thousands of dollars. It can be introduced at the cost jof the ordinary Wash-

For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston

ASAHEL WHEELER'S

CONSTANT WHITE PAINT

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING an be shown looking much fresher than any other paint of

can be snown looking much freaher than any other paint of two years.

It emits no poisonous gas like other paints while drying. Its surface is a perfect enamel, from which any specks of dirt may easily be removed.

It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

STEAM HEATING. LE BOSQUET'S

STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Boiler, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Portable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSOUET BROS., Haverhill, and 14 Bedford Street, Boston

THE WAKEFIELD EARTH CLOSETS

Every person erecting a new house hould investigate the



the best and most satisfactory yet invented. They are indispensable in every country house, and should supplant everywhere that

ACCURSED ABOMINATION,

The common out-door privy.

Dr. A. B. Palmer, in an admirable article in the Michigan Medical Journal, thus sums up the advantages of the earth closet system, as follows:—

1st, To afford a comfortable closet on any floor of the house, which may be supplied with earth and cleansed of its deposits, without annoyance or inconvenience.

2d. A portable commode in any dressing-room, bedroom, or closet, the care of which is no more disagreeable than that of a stove.

3d. Appliances for the use of immovable invalids, which entirely remove the unpleasant accompaniments of their care.

entirely remove the unpleasant accompaniments or their care.

4th, The removal of the most fertile source of typhold fever and various other diseases.

5th, The complete suppression of the odors which, despite the comfort and elegance of modern living, still hang about our cesspools and privy-vaults, and attend the removal of their content in julis and prisons.

6th, The complete deodorization of the bucket so commonly used in julis and prisons.

7th, The realization of a fertilizer of material value to the agriculturist.

Send to

THE WAKEFIELD EARTH CLOSET CO., 34 DEY STREET, NEW YORK,

their descriptive pamphlet.



W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

THE CAPITALIST'S PAPER.

The Chicago Real Estate and Building Journal

Is published weekly, at 93 Washington Street,

BY S. A. CHAPPELL & CO.

ch number contains the FULL RECORD for one week

Every Document filed in Cook County,

in the Recorder's office;

Every Judgment by the Courts, and a list of
every Foreclosure Sale
to be held in Cook County during the four weeks following
each weekly issue; besides

A thorough resume of the Land Market and Financial News, local and general;

Reports of all Public Proceedings; Building News (thoroughly treated), General Items, &c., &c. \$10.00 PER YEAR,

Payable quarterly, half-yearly, or yearly, in advance.

ILLUSTRATED HOMES. By E. C. GARD-NEE. I vol. square 12mo. Illustrated. \$2.00.

"Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste along with good sense in all that relates to the site, the architecture, and the utilities and adornments, of houses."—Christian Intelligencer (New York).

JAMES R. OSGOOD & CO. BOSTON

JAMES R. OSGOOD & CO., BOSTON.

GOTHIC FORMS. By B. J. TALBERT. 1 vol. folio. 31 plates. \$15.00.

Designs for Cabinets, Drawing-Room, Dining-Room, Sitting-Room, Bed-Room, and Library Furniture. With an introduction on Gothic Woodwork.

JAMES R. OSGOOD & CO., Boston.

JAMES R. OSGOOD & CO., Boston.

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER

86 North St., Boston.

ser Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.



P. TOLMAN & E. A. HUNTING,
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES REGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS, No. 94 Water Street, Boston

MONS. C. J. SOYARD, formerly 12 West MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACOS STREET, MEAR TREMONT, BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.
This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science,

al, and Mining Engineers, assume embraces, besides the ne-d Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the ne-cessary scientific and mathematical studies, the study of rehitectural history, and the constant practice of original

architectural history, and the consume received into a two-design.

Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARE, Esq., Pro-fessor of Architecture, or Dr. NAMUEL KNEELAND, Secretary.

BOSTON, Feb. 1, 1876.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESBOOM.

No. 53 Chambers Street, New York.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

Bronze and Brass Hardware manufactured to order from own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET ects' drawings.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon, jun.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETc., Etc.

AGENTS.

A G E N T S.

Boston.—Farsons & Torry, 838 Washingon st; Fitkin Brea.
20 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal,
7 Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler,
1321 Washington st; B. L. Solomon & Sons, 40 Franklin street.
1321 Washington st; B. L. Solomon & Sons, 40 Franklin street.
New York City.—A. Hannmacher & Co., 239 Bowery;
L. J. Tillotton & Co. S Bey st; O. A. Nathusius, 229 Bowery; B. L.
Chimbon & Sons, 60 Broadway; L. R. Krumm, 121 Essex street;
Chandon & Sons, 60 Broadway; L. R. Krumm, 122 Essex street;
Chandon & Sons, 60 Broadway; L. R. Krumm, 121 Essex street;
Chandon & Sons, 60 Broadway; L. R. Krumm, 122 Essex street;
Chandon & Sons, 62 Broadway; L. R. Krumm, 123 Essex street;
Chandon & Sons, 62 Broadway; C. A. Stock, 116 Wooster street.

Habinger, 186 Grand st; C. A. Stock, 116 Wooster street.

Hobinger, 186 Grand st; C. A. Stock, 116 Wooster street.

Hobinger, 186 Grand st; C. A. Stock, 116 Wooster street.

Hobinger, 186 Grand st; C. A. Stock, 116 Wooster, 136 Grahamav.

Albany, — Maurice E. Vile, 41 State st.

Rochester, — Pollock, Weaver, & Co., 17 Buffalo st.

Buffalo, — C. H. Uley, 22 Pearl st.

Philadelphin. — Thomas Thompson, Sons, & Co., 240 S. 24

X. Nobil, Brown, Nobilt, & Co., 225 S. 26 St; B. L. Middleton, 817

Phitaburg.— Joseph Woodwell & Co., 27 S. M. Middleton, 817

Phitaburg.— Joseph Woodwell & Co., 27 S. And Woods, S. L. Baltimore. — C Sidney Norris & Co., 28 Hanover st; John Duer & Sons, 24 South Charles st; Warfeld & Bohr, 28 So. Sharp st.

Cleveland, 0.— George Worthington & Co., 29 Water st;

Win Bingham & Co., 18 Water st.

Cincinnati, — George Worthington & Co., 29 Water st;

Washington. — F. P. May & Co, (18 Woodbrigg street.

St. Louis. — Geo. A. Rubelmann & Co., 27 S. 40 Market street.

Montreat. — James Walker & Co., 16 Woodbrigg street.

St. Louis. — Geo. A. Rubelmann & Co., 28 Randolph st.

Betroit. — Bull, Duelarne, & Co., 10 Woodbrigg street.

St. Louis. — Geo. A. Rubelmann & Co., 28 Randolph st.

Betroit. — Bull, Duelarne, & Co

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. **FURNITURE**

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON. 56, 58, & 60 Park St., New York,



MADE TO ORDER. CATALOGUE OF



Architectural Books

Mailed free to any address. All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS,
27 WARREN STREET, NEW YORK.

THE ART FURNISHING ROOMS,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings. No. 170 Tremont St., Boston. and Importer of vari

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

School Partitions. Clark's Shutters are self-acting, require n weights, and cannot get out of order. They are handsome in best and cheapest shutters in the world. Are futed to the new Tri and Hudson Canal Building, Manhattan Building, Lenox Librar for years in deliy as in every principal city throughous.

JAMES G. WILSON, Manager, 218 West 26th St., New York. AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY, THUYA, ROSEWOOD, etc., WHITE HOLLY,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.





JENNINGS' SPECIALTIES

IN ALL KINDS



JENNINGS' PATENT SIX. Jennings' Patent Water Closets, ennings' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

ARCHITECTURAL

(SHEET METAL.)

New Catalogue Free to all Architects. Sensiness Card.

THE KITTREDGE CORNICE AND ORNAMENT CO.,

SALEM, Ohio.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING.

IRON CRESTINGS. IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work Send Stamp for Catalogue

BUBIER & COMPANY, 118 MILE STREET, BOSTON.

J. & R. LAMB, 59 Carmine St., New York

CHURCH FURNITURE,

Workers in Wood, Metal and Stone for Church purpose exclusively. Polished Brass and Sterling Silver

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decorations 10 cts. | 10 cts. |

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 458 & 450 HARRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverbill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

TO ARCHITECTS OR BUILDERS. - A man thoroughly practical, iate superintendent on a large estate, with twenty years' experience in building, seeks employment as above. Good knowledge of drawing, building, construction, and erection, in all branches of the work. Highest references. Terms moderate. Address MECHANIC, 82 Washington St., Boston, Mass.



ART FOLIAGE, By J. K. COLLING, 1 vol. quarto. 72 plates. \$15.00.

**P For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,
JAMES R. OSGOOD & CO., BOSTON.

The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS.

WINTHROP SQUARE BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advan

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 12jents per line (agate), or \$1.75 per inch (fourteen lines) one neartien.

nch.
One inch, one month \$5.60
One inch, three months 16.60
One inch, three months 46.60
One inch, nine months 46.60
One inch, one year 58.00
extra charge for cuts, or for advertisements that oc than one column in width.

Franklin Press: Rand, Avery, & Co., Boston

ARCHITECTS.

OFFICES OF FRANK W. WESTON,

(Late Weston & RAND, 17 Pemberton Sq. Boston.)
ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

GRIDLEY J. F. BRYANT AND LOUIS P. ROGERS, Architects, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98

Construction of the Large and Landseter. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landser's Chillingham Red Deer, "The Ring of the Challenge," "Chillingham Red Deer," "The Ring of the Chillingham Red Deer, "The Ring of the Chillingham Red Deer, "The Ring of the Chillingham Red Deer," "The Ring of the Chillingham Red Deer, "The Ring of the Chillingham Red Deer, "The Ring of the Chillingham Red Deer," "The Ring of the Chillingham Red Deer, "The Ring of the Ring of the

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 16mmo. \$1.59. JAMES R. OSGOOD & CO., BOSTOR.





Vol. I. No. 27.]

BOSTON, SATURDAY, JULY 1, 1876.

PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Philadelphia.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

FIRE CLAY GOODS,

FIRE BRICK AND TILE,

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARP, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recom-mendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale D BUILDING STONE, ale Dealer in

OHIO STONE, FROM BERLIN, AMBERST, AND BERRA QUARRIES.
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.
S. W. FULLER,
63 Devonshire Street, Bost

MURDOCK PARLOR GRATE CO. Parlor TURERS of every description. The ONLY MANUFACTURERS of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and a lapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

GALVANIZED IRON CORNICES, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NORDEN, \$37 Harrison Avenue, Boston

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic strength, and resistance to fire and water. The Hydraulic strength, and resistance to fire and water. The Hydraulic strength and the Hydraulic strength and the Hydraulic strength and the Hydraulic strength and weigh sixty per cent less than brick.

Fire-proof partitions, ficor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:

Western Union Telegraph, Det. and Hudson Canal Co., Equitable Life Assurance, Hudson R. R. E. Fr'ght Depot, Wilmab fy Savings Bank, Verstern Union Telegraph, Columbia College, Baitimore Safo Deposit, Insurance on Wooden Mansards reduced ninety cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER, A SPECIALITY. Office 24 Light St.,

Works, cor. Pratt and Scott Sts., BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS, AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig, and Raiiroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

The only safe and reliable machine made for Passenger in Public Buildings and Hotels, and for business purpose Warehouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFTS, President. L. A. BIGELOW, Treas'r and Gen'l Man

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid Webught Iron Beams, and The
"Burden Best" Iron, Tensile Strength 18,000 the.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLET STREET, BOSTON, GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &C. BENJ. NOYES, Agent.

S. A. STETSON & CO., 173 Tremont St.,

BENJ. NOYES, Agent.

S. Boston, GAS FITTERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders furnahed
with the lowest estimates.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
FAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

MANUPACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quanties, by
GEO, BARNEY, Swanton, Vt.
Send for Circular and Price List.

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TLEFGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BRIDGEPORT, CONE. ELECTRIC

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &C., No. 226 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court
St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. NO. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
So. 9 HAMILTON PLACE,
Opp. Fark-Street Church,
Bostow.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas lighting Apparatus, Wrought Iron Pipes and Fittings. No. 68 filly St., Soston

BUILDERS' SUPPLIES

CAPE ANN GRANITE COMPANY Fumish—
GRANITE BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarries: BAY VIEW, GLOUCENTER, MASS.
JONAS H. FRENCH, Pres.
SCOTT WEBBER, Supt.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
IIT AND 119 COEST STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

PROPOSALS.

PROPOSALS FOR RED AND GRAY GRANITE, BRICKS, LIME, AND SAND.

OFFICE OF SUPERVISING ABCHIFECT,

TREASURY DEPARTMENT,
WASHINGTON, D.C., June 20, 1876.
Sealed proposals will be received at this office until 12, Mr.,
of the eleventh day of July, 1876, for furnishing and delivering at the site of the United States Custom House, &c.,
culding, Fall River, Mass., all the red and gray granite required for the superstructure, &c., cat ready for setting, in
secondance with plans, specification, and schedule; also for
three hundred and seventy thousand (370,000), more or less,
hard burned red bricks, sound and free from limestone, of the
best quality, taken from the heart of the kiln; and seven
hundred and fifty (370) barrels, more or less, of stone lime,
(two and a half bushels per barrel), of the best quality; and
a hundred and seventy (170) cubic yards of clean sharp river
sand. Delivery of the bricks, lime, and sand to be in such
quantities as required by the superindendent, and the progress of the building.

Bidders will submit with their proposal a sample of such
material as they propose to supply.

Copies of the drawings, specification, schedule, form of
proposal, and any additional information, may be had on application at this office, or at the office of the superintendent
at the building.

projection at this office, or at the omce of the price of the building.

The Department reserves the right to reject any or all bids, or any portion thereof, if it be deemed in the interest of the Generalment to do send to the deverment to do send to the developes, endorsed, if you have been developed to the document to the developed the case may be), for the Ullicu Sense Fail River, Mass., and addressed to WILLIAM A. POTTER, Supervising Architect.

NATIONAL MILITARY CEMETERIES.—
Proposale in triplicate, with a copy of this advertisement attached to each, will be received at the office of the National Cemeteries, at Washington, D.C., until Saturday, July 18, 1878, for the construction of a Superintendent's Lodge, of brick or stone, at the National Cemetery at Grafton, West Virginia; also for the construction of an enclosing wall and a Superintendent's Lodge, of brick or stone, at the National Cemetery at Finn's Point, N.J.,—opposite Fort Delaware. The work during its progress will be frequently inspected by competent engineers, and a strict compilance with the terms of the contract will be required. Copies of plans and specifications may be seen at this office, and at the Quartermaster's office at Philadelphia, Penn., 1129 Girard Street, also at the Cemeteries above mentioned. A. F. ROCKWELL, Captain and A. Q. M.

ROOFING SLATE. — Proposals will be received at the office of the Kansas State Penitentiary in Leavenworth, Kansas, and opened at 2 F.M., July 6, for about 75 squares of roofing slate, punched for nails, and sufficient nails to put the same on, and delivered on the cars at Penitentiary Switch. It is not necessary to be even in color, but of good quality for shor proofs.

HENRY HOPKINS, Warden.

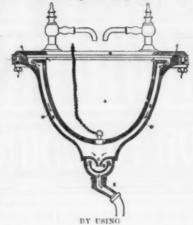
STEAM HEATING APPARATUS, -Pro-STEAM HEATING APPARATUS.—Proposals will be received until July 10, at 12 m., for a ateam heating apparatus for the Buffalo State Insane Asylum. Proposals may be in accordance with two plans and specifications, or either of them, marked Nos. 1 and 2 respectively, now in the possession of the Board of Managers; or any party may submit other plans and specifications with their proposals. Proposals will be received for the entire work complete, or for the boliers, engines, fans, piping, radd sons, or tely. Plans and specifications can be seen, and further information obtained, at the office, No. 31 City and County Hall. Proposals will be addressed to WM. F. ROGERS, Secretary, No. 31 City and County Hall, Buffalo, N.Y.

AMES P. WHITE, President Board of Managers.

PRIDGE. — Bids will be received at the office of the Commissioners of Hamilton Co., O., in Clientant, until July 1, at 12 M., for masonry of the abutments of a bridge across Millereek, on the road from Hartwell to Lockland, in Svcamore township. Specifications can be seen at this office. Also, for an iron superstructure at the same place; clear span, eighty feet; clear roadway, eighteen feet. Bidders will furnish their own plans and specifications therefor. A full and complete strain sheet to accompany each plan. Said bridge must be of sufficient strength to sustain one hundred pounds per square foot of floor surface beside its own weight; factor of safety, four hundred and fifteen thousand tension, twelve thousand five hundred compression. Payments will be made in Hamilton and fifteen thousand tension, twelve thousand five compression. Payments will be made in Hamilton bonds, bearing interest at seven per cent. By order nissioners. JOSEPH B. HUMPHREYS, Auditor

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

Protect your Houses against Damage Water, by



Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars. It can be introduced at the cost of the ordinary Wash-For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.

ASAHEL WHEELER'S

CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING in be shown looking much fresher than any other paint of

all the Brown Housing Black treater that any other peaks of wo years.
It emits no poisonous gas like other paints while drying, its surface is a perfect enamel, from which any specks of irr may easily be removed.
It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.



THE CENTRAL PARK TEST.

NEW YORK, May 25th, 1876,

WAKEFIELD EARTH CLOSET CO., 34 Dey Street, N. Y.

GENTLEMEN:

GENTLEMEN:

100 of your Wakefield Closets have been in use four years in Central Park. They have given entire satisfaction. We have ceased using the Water Closets, which were contaminating the water of our lakes.

Respectfully,

JULIUS MUNCKWITZ, Supt. D. P. P.

GRAND EXPOSITION HOTEL.

PHILADELPHIA, May 18, 1876-

GENTLEMEN: The fifty

CABINET CLOSETS

that you sent us give general satisfaction to our guests. We will send you an order shortly for as many more.

M. RILEY, Manager.

For further Testimonials and Descriptive Circurs send to

WAKEFIELD EARTH CLOSET CO.,

34 Dey Street, N. Y. Or Agency, 900 Walnut Street, Philadelphia.

CHILD-LIFE IN PICTURES. Containing Designs for Cabinets, Drawing-Room, Dining-Room, Sitting-Room, Bed-Room, and Library Furniture. With an Introduction on Gothic Woodwork.

JAMES R. OSGOOD & CO., Boston.

JAMES R. OSGOOD & CO., Boston. STEAM HEATING LE BOSQUET'S

STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Boiler, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Famphlet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSOUET BROS. Haverhill, and 14 Bedford Street, Boston.



W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

THE CAPITALIST'S PAPER.

The Chicago Real Estate and Building Journal

Is published weekly, at 93 Washington Street, BY S. A. CHAPPELL & CO.

BY S. A. CHAPPELL & CO.

Each number contains the Full Record for one week of Every Document filed in Cook County, in the Recorder's office.

Every Judgment by the Counts, and a list of every Foreclosure Sale to be held in Cook County during the four weeks following each weekly issue; besides

A thorough resume of the Land Market and Financial News, local and general;

Reports of all Public Proceedings; Building News (thoroughly treated), General Lems, &c., &c.

\$10.00 PER YEAR,

Payable quarterly, half-yearly, or yearly, in advance.

All interested in Building matters are cordially invited,

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of MARSHALL BROS. & Ol., Philadelphia, Penn. ufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O.
Manufacturers of Architectural Sheet Metal Work
"For the Trade."

Parlor Grates,

FOR HEALTH AND COMFORT.



H. M. CREAMER.

86 North St., Boston.

ser Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

National Fine Art Foundery,

218 East 25th Street, New York.

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



P. TOLMAN & E. A. HUNTING.
BRUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repair
ing and Leasing Estates and the Collection of RentaMORTOAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERN

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.
WALDO BROTHERS,

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MEAR TREMONT, BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.
This school offers a four-years' scientific and professional training for Chemists. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

cal, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary.

Boston, Feb. 1, 1876.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware. THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESBOOM.

No. 53 Chambers Street, New York.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order fron 20 DOCK SQUARE, BOSTON,
Manupactory 19 Wareham Street



Set Complete in Terry, \$75.

Set Complete in Plush, \$90. LODGE AND CHURCH FURNITURE A SPECIALITY.

BRAMAN, SHAW, & Co.,

Manufacturers and dealers in

PARLOR FURNITURE

oms, 27 Sudbury, and 69 & 71 Portland Streets, Bost

FACTORY AT EAST CAMBRIDGE.

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed, E. Hixon.

E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS

1131 TREMONT ST., Boston.

Architects desiring information connected with our art,



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Roston.—Farsons & Torry, 636 Washingon st; Pitkin Bros. 23 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, 7 Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 1321 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. L. Beicher Bros. 27 Weybosset st.

New Xork City.—A. Hammacher & Co. 299 Bowery, Ed. L. Tillotton & Co. Boyet; O. A. Nethulins, 229 Bowery, Ed. L. Tillotton & Co. Boyet; O. A. Nethulins, 230 Bowery, Ed. C. Torroston, 13 Co. Boyet; Co. A. Stock, 16 Wooster street, Chas. E. Kugler, 10 Division st.; Speyer Bros., 10 Bowery; W. F. Hubinger, 186 Grand st; C. A. Stock, 16 Wooster street, Rrooklyn, (E. D.) N. Y.—Hermann Weber, 134 Grahamav. Albany.—Maurice E. Viele, 41 State, st. Buffalo St. Hochester.—Pollock, Weaver, & Co., 17 Buffalo st. Hochester.—Pollock, Weaver, & Co., 17 Buffalo st. Hochester.—Pollock, Weaver, & Co., 18 Buffalo st. Hochester.—Pollock, Weaver, & Co., 18 Buffalo st. Hochester.—Ch. Utieve, 28 Pearl st.

Hochester.—Pollock, Weaver, & Co., 18 Middleton, 817 N. 24 st.; B. L. Solomon, 8 Sons, 23 N. 24 st.; E. A. Buern, 335 E. L. Buffalo st. 18 L. L. Solomon, 8 Sons, 23 N. 24 st.; E. A. Buern, 35 E. Dauphin st; Thomas Knight & Co., cor, Cal ave, and Green st. Pittsburg.—Joseph Woodwell & Co., or, 2d ave, and Green st. Pittsburg.—Joseph Woodwell & Co., or, 2d ave, and Green st. Pittsburg.—Joseph Woodwell & Co., 20 Mater st; Wm. Bingham & Co. 18 Water st.

Cincelanatt.—Glaescher & Kuhlman, 534 Main st; J. L. Chicango.—J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph st.

Chicango.—J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 28 Randolph st; A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 28 Randolph st. and Francisco.—B. L. Solomon & Sons, 40 Market street.

Montread.—James Walker & Co., 163 Woodbridge street.

St. Louis.—Geo. A. Rubelmann & Co., 68 St. James & Quebe.—S. J. Shaw & Co., 78 Lohomon & Sons, 40 Market street.

Montre

ur goods can be purchased of the ab-

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON. 56, 58, & 60 Park St., New York,



MADE TO ORDER.



CATALOGUE OF Architectural Books

Mailed free to any address. All architectural and Scientific Books supplied at publishers' prices,
A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS,

27 WARREN STREET, NEW YORK.

THE ART FURNISHING ROOMS.

C. A. WELLINGTON, PROPRIETOR, Designer and Importer of
PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoratio

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

We Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

VENEER

TULIP. FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY. WHITE HOLLY. THUYA. ROSEWOOD, etc.,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

SEWERGASSHUTOFF!





and at London, Paris, Vienna, Berlin, Melbourne, &c.

JENNINGS' SPECIALTIES

JENNINGS PITENT SIX- JOHNINGS PATENT WATER CLOSETS JENNINGS PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.
A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

ARCHITECTURAL ORNAMENTS.

(SHEET METAL.)

New Catalogue Free to all Architects. Sen Business Card.

THE KITTREDGE CORNICE AND ORNAMENT CO.,

SALEM, Ohio.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON For Building IRON AND WIRE RAILING, IRON CRESTINGS,

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY,

WEATHER VANES.

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work. Send Stamp for Catalogue

BUBIER & COMPANY, 118 MILE STREET, BOSTON

J. & R. LAMB.

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decorations 10 cts. 10 cts.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON

EAD, MASON, & CO., BUILDERS.
Steam Mill at Concord, N. H. Offices, 10 Canal Street,
n, and Concord and Manchester, N.H. Churches, and Concord and Manchester, N.H. Churches, and C. Buildings a specialty. MEAD,

H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos Posts, Rails, Balusters, & Office Rails, furnished to order

TO ARCHITECTS OR BUILDERS. - A man thoroughly practical, late superintenden estate, with twenty years' experience in bu-employment as above. Good knowledge of dr ing. construction, and erection, in all branches Highest references. Terms moderate. Addre MECHANIC, 842 Washington St., Boston



A RT FOLIAGE. By J. K. COLLING. 1 vol.

- For saile by Booksellera. Sent postpaid, on receipt of price, by the Publishers,
JAMES R. OSGOOD & CO., BOSTON.

The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,

WINTHROP SQUARE.....BOSTON

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

RATES OF ADVERTISING

One inch, one year

No extra charge for cuts, or for advertisements theore than one column in width.

Franklin Press: Rand, Avery, & Co., Boston.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,
BOSTON.

GRIDLEY J. F. BRYANT AND LOUIS
P. ROGERS, Architects, 17 Pemberton Sq., Boston.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

ENGRAVINGS FROM LANDSEER. INGRAVINGS FROM LARNDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landser's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest," The Monarch of the Glen," High Life, "Low Life," Laying Down the Law, "Shoeing the Bay Mare," and others of equal beauty. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTOR.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 16mmo. \$1.50. no. \$1.50. JAMES R. OSGOOD & CO., BOSTON.







Vol. I. No. 28.]

BOSTON, SATURDAY, JULY 8, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street Boston, New York, Philadelphia.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF

FIRE CLAY GOODS.

FIRE BRICK AND TILE.

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARP, 294 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

TIN-LINED IRON PIPE. A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York

"The great strength of this pipe will make it a favorite is all towns where heavy pressures are used; and the ease an certainty with which a joint can be made are great recommendations in its favor." — Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pjees should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salersom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

ORIO STONE, FROM BERLIN, AMHERST, AND BERRA QUARRIES. Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARSES.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.

S. W. FULLER,
63 Devonshire Street, Boston

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURERS of these goods in New England. No. 11 Marshall Street, Bos on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, witcout dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

CALVANIZED IRON CORNICES, Importers, Jobbers, and R Campbell's Fatest Chimney Jacks, Window Caps, &c.

8MITH & VAN NOORDEN, 357 Harrison Avenue, Boston.

612 WASHINGTON STREET

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strengest cements, known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

inforce. Fire-proof partitions, floor arches between iron beams, sillings under wooden or iron beams, in the following

cellings under wooden or iron beams, in the following buildings:—

Western Union Telegraph, Deed, and Hudson Canal Co., Staats Zeitung, Fright Depot, Westminater Hotel, Wilmab ig is saving Bank, Columbia College, Wilmab ig is saving Bank, Columbia College, Westminater Hotel, Syracuse Savings Bank, Columbia College, Baltimore Safe Depoett, Tribune, Peabody Museum. Insurance on Wooden Mansarder to dued ninety cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Profework is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH Prosider.

Office, 111 Broadway, N.Y.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK ORNAMENTAL IRON WORK,

GALVANIZED IRON WORK. HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER! A SPECIALITY. Works, cor. Pratt and S d Scott Sts., Baltinore, Md.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in annuracturers of and Dealers in omegeneous Boiler and Fire-Box Plates, Plate, Sheef, Plg, and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Plpe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'i Manager.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"Burden Best" Iron, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-DRAIN, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &C. BENJ. NOYES, Agent.

S. A. STETSON & CO., 173 Tremont St., 6 Hoston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

etailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every part of the Country.

Glazed and Enamelled Tiles for Mantels, Hearths, Wainscoting, &c., and for Exterior Decoration.

MILLER & COATES,

279 PEARL STREET, NEW YORK

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, fur-dished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &O., No. 256 West 44th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, DOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS,
NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

HABERSTROIL, ESEASOISHOURS OF STREET, PARTIER, NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Fark-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERT DESCRIPTION,

FOR CHURCHES, BANKS, PUBLIC AND PRIVATE BUILDINGS.

ALSO GAS FIXTURES.

ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isola, set buildings perfectly. Wire to sleeping ro m. Alarm liven it wire is cut or tampered vita, or custance made. Saro thing. Wal. A. BARNES, 90 Waynes Strues; Beilderfork, Cosm.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RAVES TO BUILDERS.
R. HOLLING & CO., 517 Washington St. BO-TON.

WALWORTH MANUFACTURING CO., WETEAM AND HOT WATER WARMING AND YENTILATING APPARATUS. Gas Lighting Apparatus, Wrought from Pipes and Fittings. No. 69 Kilby St., Boston

A RCHITECTURAL ORNAMENTS (Sheet THE KITTREDGE CURNICE AND ORNAMENT CO., Salem. Ohio

CAPE ANN GRANITE COMPANY

GRANITE, BUILDING, AND MONUMENTAL WORK,
ALSO GRANITE FIR, AND MONUMENTAL WORK,
EMMONS BUILDING OF WATER ST., BOSTON.
OURTICE: BAT VIEW, GLOUCESTER, MASS.
JOHAS B. FRENCE, TORS.
SCOTT WEBBER, SUPI.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTOK.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

PROPOSALS.

PROPOSALS FOR RED AND GRAY GRANTE, BRICKS, LIME, AND SAND.

OPPICE OF SUPERVISITO ARCHITECT,

TREASURY INFARTMENT.

Sealed proposals will be received at this office until 12, at, of the eleventh day of July, 1876, for furnishing and deliverable of the superstructure, etc., cut ready for setting, to secondance with plans, specification, and schedule; also for three hundred and seventy thousand (370,000), more or less, hard burned red bricks, sound and free from limestone, of the best quality, taken from the heart of the klin and seven hundred and fifty (750) barrels, more or less, of stone lime, (two and a haif bushels per barrel), of the best quality; and a hundred and seventy (170) cubic yards of clean sharp tiver sand. B. livery of the bricks, lime, and sand to be in such quantities as required by the superindendent, and the programment of the superindendent, and the programment of the superindendent, and the programment of the dealers of the drawings, specification, schedule, form of proposal, and any additional information, may be had on application at this office, or at the office of the superintendent at the building.

The Department reserves the right to reject any or all bids.

plication at this office, or at the office of the early or all bids, at the building.

The Department reserves the right to reject any or all bids, or any portion thereof, if it be deemed in the interest of the Government to do so.

Proposals must be enclosed in scaled envelopes, endorsed, Proposals for red or gray granite, bricks, line, or sand (as the case may be), for the United States Custom House, &c., Fail River, Mass., and a "dressed to WILLIAM A. POTTER, Supervising Architect.

NATIONAL MILITARY CEMETERIES. NATIONAL MILITARY CEMETERIS.

—Proposals, in triplicate, with a copy of this advertisement attached to each, will be received at the office of the Kational Cemeteries, at Washington, D.C., until Saturday, July 18, 1876, for the construction of a Superintendent's Lodge, of brick or stone, at the National Cemetery at Grafton, W. Va.; also for the construction of an enclosing wall and a Superintendent's Lodge, of brick, or stone, at the National Cemetery at Frim's Point, N. J., — opposite Fort Delaware. The work during its progress will be frequently inspected by competent engineers, and a strict compliance with the terms of the contract will be required. Optics of plans in a specifications may be seen at this office and at the Quartermaster's office at Philadelphia, Penn. 1128 Girard Street, also at the Cemeteries above mentioned.

A. F. ROCKWELL, Captain and A. Q. M.

PRICK SEWER. — Proposals will be received by the undersigned, No. 131 LaSalle Street, Chicago, until Tucsday, July II, at 3.30 cclock P.M., for furnishing materials and construction of a brick sewer on the west readway of Drexel boulevard, from Forty-third Street to Oakwood boulevard, from Drexel boulevard are on Oakwood boulevard, from Drexel boulevard to Grand boulevard, according to plans and specifications on file in the Engineer's Department of the villace of Hyde Park. The contractors are to receive payment for the same only out of the special amessment for said improvement when the same is collected.

JOHN R. BENSLEY, President of the Board of Trustees.

PROPOSALS.

TO BRIDGE BUILDERS.—City of Boston.
Scaled proposals, indorsed "Proposals for Resuliding and Widening Dover-street Bridge," will be received at the office of the Cierk of Committees, City Hail, Beston, until 12 o'clock, M., of NATURDAY, July 18, 18.6.
Bidders will state the proposed price for each of the items of the work, by which the bids will be compared. These prices are to e-ver all the expenses incidental to the compitation of the work in fall conformity with the specifications.

or the work are to exer all the expenses incidental to the compition of the work in fall conformity with the specifications.

Each bid must be signed by the bk'der, and accompanied by a bond for \$3.000, conditioned for the execution of the contract, with satisfactory surelies for its performance, within the time specified in this advertisement, in case the bid the contract, must be resident of Massachusetts. No bid will be contract, must be residents of Massachusetts. No bid will be consistered which has not responsible surelies upon its accompanying bond.

The person or persons to whom the contract may be awarded will be required to appear at this office with the securities offered by him or them, and execute the contract within four days fnot including Bunday) rem the date one the first of the contract; and, in case of failure or neglect to do so, he or they will be considered as having abandoned it, and the amount of the bond shall be forbided by the city of Buston.

Specifications may be obtained, and plans may be seen, at the office of the City Engineer, City Hall, Boston.

The amount of secarity required will be such as may be fixed by the Committee on Bridges, after the proposals are opened; said sum not to be less than one-fourth nor more than two-thirds of the amount of the contract.

The Committee on Bridges receive the right to reject any or all bids, shou dit doesn it to be for the interest of the city of Boston so to do.

CHATE BURNHAM,

Chairman Committee on Bridges.

Office of City Engineer, City Hall, Bos on, Jure 29, 1876.

SCHOOL HOUSE.—Proposals will be received at the office of the cierk of the Board of Education of Franklin township, Franklin Co., 0, until 12 o'clock at noon of July 15, 1876, for building a School House on a lot situated near the Statz quarries, in said township, according to plans and specification on file at the black-smith shop of D. H. Moore, in West Columbus, on West Broad street. By order of the Board of Education.

J. J. EAKIN, Clerk.

BRICK FREIGHT HOUSE. - Bids will be Preceived until July II, 1878, at 12 o'clock noon, for fur-nishing all the material and labor necessary for the con-struction of a Bick Freight House in Ludiow, Ky., on the line of the Cuclimiati Southern Railway. Plans and specifi-cations can be seen at No. 70 West Third Street, Cinclimati,

O. By order of the Board.

MILES GREENWOOD, President.
THOMAS D. LOVET, Consulting Engineer.



THE CENTRAL PARK TEST.

NEW YORK, May 25th, 1876.

WAKEFIELD FARTH (LOSET CO., 34 Dey Street, N. Y.

GENTLEMEN:
100 of your Wakefield Closets have been
in use four years in Central Park. They have
given entire satisfaction. We have ceased using
the Water Closets, which were contaminating the
water of our lakes. Respectfully,

JULIUS MUNCKWITZ, Supt. D. P. P.

GRAND EXPOSITION HOTEL, PHILADELPHIA, May 18, 1876.

GENTLEMEN: The fifty

CABINET CLOSETS

that you sent as give general satisfaction to our guests. We will send you an order shortly for as many more.

M. RILEY, Manager.

For further Testimonials and Descriptive Circussend to

WAKEFIELD EARTH CLOSET CO.,

34 Dey Street, N. Y.

STEAM HEATING. LE BOSOUET'S

STEAM HEATING APPARATUS.



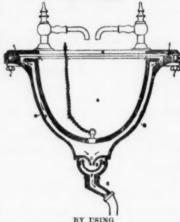
The value of steam as a means of furnitive dwellings and public buildings has bee fact; and it needs only that its cost shall the reach of those of moderate means, to popular. This end we have reached with one were by any sacrifice in quality of nor w. rkmanshin, but by a simple comwhereby we accomplish the desired object my both in material and labor. Our Porcially, is easy to erect, efficient in operatin cost. Parties who have a preference heating should examine this Boiler at onas been in practical oper thou in built residences the past winter; and is work nearly satisfactory in every respect. We with a fine description of the Boiler, which any address upon application. Manufact ans of furnishing heat to gs has become a recogni-cost shall be brought will means, to make it deserve reached with our B lier, unality of mat rial employ luncle combination of

LE BOSQUET BROS.,
Haverhill, and 14 Bedford Street, Bost

TO INVENTORS AND MANUFACTURERS

The 48th Krhibition of the American Institute will open September 6th; Redwisery will be received after America Ho, other goods after America Feb. Increased awards and a Special Gold Medaj for this year. For particulous, binata, etc., address "General Saper-intended American Institute, New York."

Protect your Houses against Damage by Water,

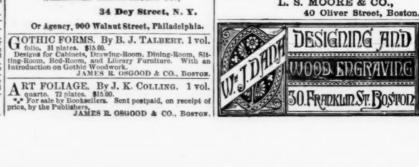


Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of the usands of dollars.

No suril can arise from the drain-pipe, it being perfectly trapped at the very outlet of the basin. It can be introduced at the cost of the ordinary Wash Row!.

owl.
For descriptive circulars, address
L. S. MOORE & CO.,





PARQUET FLOORS.

The National Wood Manufing Co WOOD CARPETING, 950 Broadway, New York.
Send Three-Cent Stamp for Designs.
Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

PARLOR GRATES, for Health and Comfort, Made low or half low down, with the celebrated damping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England. Also, Creamer's Convex Side-Wall Registers prevent walls being disclored by furnace-hat. Floor Registers, on the lever movement, prevent dirt and sweeplings ever clogging them. Celling Youthalors for sax or smoke pine, and to carry surphis best to the room above, and can be worked from either side.

11. M. CREAMER, 86 North 81, Boston. ar Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.



P. TOLMAN & E. A. HUNTING, UILDERS, REAL ESTATE IMPROVERS, AND IAL AGENTS. Particular attention given to Repair ing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERN Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MEAR TREMONT, BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.

sional training for Chemiats. Métallurgists. Civil, Mechancal, and Mining Engineers, Architects, Teachers of Science,
and Manufacturers.

nd Manufacturers.

The Course is Architecture embraces, besides the netessary scientific and mathematical studies, the study of
rehitectural history, and the constant practice of original

ssign. Special students in Architecture are received into a two-tars' special course. Special Students in Architecture (1948) years' special course.
For particulars address William R. Ware. Esq., Pro-Fessor of Architecture, or Dr. Samuel Kneeland, Secretary.
Boston, Feb. 1, 1876.

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Corneggio, Corneggio, Rayloris, Retholds, Gerler, Lawrences, Murillo, Garando, Raylaris, and other celebrated painters, forming a series of charming pietures of child-lic. Quario, Price, 310.0. JAMES R. 08000 & C., Bostos.

ILLUSTRATED HOMES. By E. C. GARD-MER. 1 vol. square 12mo. Illustrated. \$2.00.

"Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste along with good sense in all that relates to the site, the architecture, and the utilities and adornments, of houses."—Christian Intelligencer (New YOFE).

JAMES R. OSGOOD & CO., BOSTON

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by SCOTT, STREET, COLLING, and others. 1 vol. quarto. 64 plates. \$15.00.
Containing designs for Churches, Cathedrals, Colleges, Hails, Railway Stations, Museums, Model Dwellings, Baths, &c.
JAMES R. OSGOOD & CO., BOSTON.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESHOOM.

No. 53 Chambers Street, New York. FOR FURNITURE MANUFACTURERS,

BURDITT & WILLIAMS,

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially conlete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Bress Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STEREY

MANUFACTORY 19 WAREHAM STREET.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed, E. Hixon.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 181.50. JAMES R. OSGOOD & CO., BOSTON.



Artificial Wood Ornaments.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 650 Washingon st; Pilkin Bros.

Block sq. Fariesa a Boyuton, 52 Cornilli, Garduer & Chandler,
Dock sq. Fariesa a Boyuton, 52 Cornilli, Garduer & Chandler,
Providence, R. I.—Bicher Bros. Z Weybosset st.

New York City, —A. Hammacher & Co., 99 Bowery; B. L.

Solomon & Sons, 659 Broadway; E. R. Krumn, 121 Essex street;
L. J. Tillottson & Co. 8 Dey st; O. A. Nathusius, 229 Bowery; B. L.

Solomon & Sons, 659 Broadway; E. R. Krumn, 121 Essex street;
Chas. E. Kugler, 10 Division st. 8 peyer Bros., 110 Bowery, W. F.

Hudinger, Brogger, C. A. Stock, 116 Wooster street,
Changer, Brogger, C. A. Stock, 116 Wooster street,
Albanay.—Maurice E. Viele, 41 State st.

Bochester.—Pollock, Weaver, & Co., 17 Buffalo st.

Buffalo.—C. H. Utley, & Pearl st.

Palludelphina.—Tiomas Thompson, Sons, & Co., 90 S. 24

17. Nobili, Brown, Nobili, & Co., 221 S. 2d. st; H. L. Middleton, 812

Bushin st, Thomas Kinglit & Co., cor. 18 digs ave, and Wood st.

Buffalo.—C. H. Thomas Kinglit & Co., cor. 2d ave, and Wood st.

Buffalore.—C. Sidney Norris & Co., 90 Innover st; John
Dure & Sons, 24 South Charles st; Warfield & Bohr, 62 So. Sharp st.

Cleveland, 6.—George Wordmelton & Co., 90 Water st;
Win Hingham & Co., 184 Main st; J. L.

Wayer & Son, 124 Main st.

Chicago.—J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich &
 Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph st.

But.——Geo. A. Rubelmann & Co., 183 Woodbridge street.

Bt. Lonia.—Geo. A. Rubelmann & Co., 183 Woodbridge street.

Montreat.—James Walker & Co., 58 St. John st.

Hamilton, Oht.—Walker & Co., 183 K. James.

Guebee.—S. J. Shaw & Co., 781. John st.

Hamilton, Oht.—Walson & Thompson, 16 MeNab st.

Bamer y and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON, 56, 58, & 60 Park St., New York,



METAL WORKERS. Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c., MADE TO ORDER. Estimates furnished on application



CATALOGUE OF Architectural Books Mailed free to any address.

Il architectural and Scientific Books A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHER:
27 WARREN STREET, NEW YORK.

THE ART FURNISHING ROOMS,

C. A. WELLINGTON, PROPRIETOR, Designer and Importer o

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decorati

Contractor for Tile Work in Dwellings and Public Buildings. A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.
WE Manufacturer of Fine Furniture, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

Partitions. Clark's Shut, and cannot get out of or i cheapest shutters in the widson Canal Building, Manhe in deily use in every princ architects of the world.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne, de.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

VENEER:

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETSJENNINGS' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

MANUPACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building

IRON AND WIRE BAILING. IRON CRESTINGS,

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY,

WEATHER VANES.

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue

BUBIER & COMPANY 118 MILE STREET, BOSTON. ASAHEL WHEELER'S

CONSTANT WHITE PAINT.

Invented 1850.

can be shown lossing much research while drying. It emits no poisonous gas like other paints while drying. It emits no poisonous gas like other paints while drying. It emits no poisonous gas like other paints while drying. It is an equalled for beauty, durability, and economy.

PECIMENS OF TWENTY-FIVE YEARS' STANDING be shown looking much fresher than any other paint of

The Chicago Real Estate and Building Journal





CHURCH FURNITURE

Workers in Wood, Metal and Stone for Church purp sclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free Wood Work | Metal & Stone Work | Banners & Decorate 10 cts. | 10 cts.

ENGRAVINGS FROM LANDSEER. the utmost Edelly some or the most "Chillingham Works, including "The Challenge," "Chillingham Deer," "The King of the Forest, "The Monarch of Gleen," "Righ Life," "Low Life," "Laying Down the Le "Shoeing the Bay Mare," and others of equal bes Quarto. Price, \$16.00.

Franklin Press: Rand, Avery, & Co., Boston.

OFFICES OF FRANK W. WESTON. (17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,
BOSTON.

ARCHITECTS.

GRIDLEY J. F. BRYANT AND LOUIS

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93
Water Street, Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

ufacturers and Galvanizers of Sheet Iron, Ber Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work "For the Trade."



FOREIGN AND DOMESTIC FANCY WOOD

THUYA, WHITE HOLLY. MAHOGANY.

suitable for

Boston Ornamental Iron Works CONTRACTORS & BUILDERS.

W. H. WARREN,
RUILDER AND CONTRACTOR,
NOS. 485 & 490 HARRISON AVENUS, BOSTON

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimatos given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.



THE UNION SPRING HINGES

THE CAPITALIST'S PAPER.

Is published weekly, at 93 Washington Street, BY S. A. CHAPPELL & CO.

BY S. A. CHAPPELL & CO.

Each number contains the Full Record for one week of
Every Document filed in Cook County,
in the Recorder's office,
Every Judgment by the Cousts, and a list of
every Foreclosure Sale
to be held in Cook County during the four weeks following
ach weekly issue; besides
A thorough resume of the Land Market and
Financial News, local and general;
Reports of all Public Proceedings; Building
News (thoroughly treated), General
Liems, E., &c., &c.

\$10.00 PER YEAR,
Payable quarterly, half-yearly, or yearly, in advance.

OFFICE AND STORE 145 MILK STREET, BOSTON. W. J. McPHERSON & CO.

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.





Vol. I. No. 29.]

BOSTON, SATURDAY, JULY 15, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Wainut Street Boston. | New York. | Philadelphia.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS., 82 Beekman Street, New York

"The great atrength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor." - Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

aless woven, and able to withstand immense pressure The most practical Hose for use in FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
BOBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

BEILIN, STONE,
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES.
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN USE.
S. W. FULLER,
63 Devonshire Street, Boston.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, fur-nished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBORSED, AND CUT GLASS,
POR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &C., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE. St. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor TURRES of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL
AND WINDOW VENTILATORS, that will supply
pute sir, without dust or cold draughts, and a-apted to
large or small rooms. Call or send for Circulars. W. H.
KIMBALL, 120 Tremont Street. Boston.

GALVANIZED IRON CORNICES, HENRY B. JONES & CO. Imperiera Jobbers, and R. Campbell's Patent Chimney Jacks, Window Caps. &c. HENRY B. JONES & CO. Imperiera Jobbers, and R. Sallett & VAN KOORDEN, 387 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, its largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

ian orica.

Fire-proof partitions, floor arches between iron beams ellings under wooden or iron beams, in the following

cellings under wooden or iron beams, in the following buildings:—
Western Union Telegraph, Del. and Hudson Canal Co. Staats Zeitung. Co. Equitable Life Assurence, Will'mab'g Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Windsor Hotel, New York Hospital, Tiburance on Wooden Manards reduced ninety cents per Side. Sidewalks laid at Lenox Library, Tribune, Peabody Museum. Side. Sidewalks laid at Lenox Library, Tribune, &c. Holone and the Superintendent of Buildings, after severe public tests.

LEONARD F RECEMENT.

LEONARD F. BECKWITH, President

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
OBNAMENTAL IRON WORK,
GALVANIZED IRON WORK, HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.

Works, cor. Pratt and Scott Sts., Baltimone, Mp. Office 24 Light St.

JOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Bailroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Weided Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

only safe and reliable machine made for Passenger use ublic Buildings and Hotels, and for business purposes in chouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

L. A. BIGELOW Treas'r and Gen'l Man

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.

Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid Westorth Thon Brans, and The
"Burden Bret" Iron, Tensile Strength 78,400 lbs.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLET STEERT, BOSTON, GLAZED SEWER, DRAIN, AND WATER FIPE, LAND TILE, CHIMNEY TOPS, FUNEL STORES, 4C. BESJ. NOVES, Agent.

S. A. STETSON & CO., 173 Tremont St.,
GLASS CHANDELIERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architecta. Contractors, and Builders furnished
with the lowest estimates.

Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO. CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MITCHELL, VANCE & CO.,

Designers and Manufacturers

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES
WAREROOMS, No. 597 BROADWAY, NE NEW YORK.

ELECTRIC ELECTRIC ANNUNCIATORS, DOOR
TELEGRAPH. Watches isolated buildings perfectly. Wire
to sleeping room. Alarm given if wire is cut or tampered
with, or entrance made. Sure thing. WM. A. BARNES,
99 WATER STREET, BRIDGEPORT, CONN.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 8ff Washington St., BOSTON.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY
GRANITE RUILDING AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarties: BAT VIEW, GLOUCESTER. MASS.
JOHAS H. FRENCH, PARTIES, SUPERIOR OF THE ST. T. CO. S. SCOTT WEBBER, Supt.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS.
NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO 12 SCHOOL STEER, BOSTON.
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO.9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

A RCHITECTURAL ORNAMENTS (Sheet business card.
THE KITTREDGE CURNICE AND ORNAMENT CO.,
Salem, Obio

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING GOMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches.

Ings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at
Wholesale Prices. HAWTHORNE & TUCKER, 16
Province Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.

HAVE for many years given their exclusive attention to Fire-Proof Construction; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business:

FIRE-PROOF FLOORS. The only floors that have stood fire in this country. FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springdeld last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best latth ever made, either wood or Iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when dealired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

NEW YORK BOARD OF EDUCATION



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-o

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH.

AGENTS FOR THE TUTTLE & BAILEY REGISTER. Send for Catalogue and Prices.

MURDOCK PARLOR-GRATE CO.,

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESBOOM.

No. 53 Chambers Street, New York.



THE CENTRAL PARK TEST.

NEW YORK, May 25th, 1876.

WAKEFIELD FARTH CLOSET CO., 34 Dey Street, N. Y.

100 of your Wakefield Closets have been in use four years in Central Park. They have given entire satisfaction. We have ceased using the Water Closets, which were contaminating the water of our lakes. Respectfully,

JULIUS MUNCKWITZ, Supt. D. P. P.

GRAND EXPOSITION HOTEL.

PHILADELPHIA, May 18, 1876-

GENTLEMEN: The fifty

CABINET CLOSETS

hat you sent us give general satisfaction to our uests. We will send you an order shortly for as many more. M. RILEY, Manager.

For further Testimonials and Descriptive Circulars send to

WAKEFIELD EARTH CLOSET CO.,

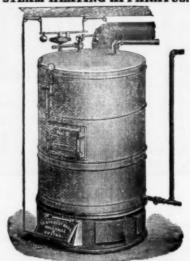
34 Dey Street, N. Y.

Or Agency, 900 Walnut Street, Philadelphia.

COTHIC FORMS. By B. J. TALBERT. 1 vol. folio. 31 plates. \$15.00.
Designs for Cabinets, Drawing-Room, Dining-Room, Sitting-Boom, Bed-Room, and Library Farmitare. With an latroduction on Gothic Woodwork.

JAMES R. OSHOOD & CO., BOSTOR.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Boiler, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and inbor. Our Fortsible Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Farties who have a preference for this method of heating should examine this Boiler as follows and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

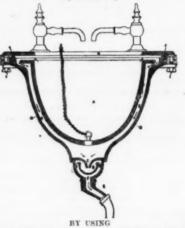
LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston.

TO INVENTORS AND MANUFACTURERS

The 45th Ephibition of the American Isstitate will open September 6th; Machinery will be received after August 14th, other goods after August 15th, Increased awards and a Special Good Medal for this year. For particulars, blanks, etc., address "Geograf Superintendent American Institute. New York,"

Protect your Houses against Damage by Water,



Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

No small can arise from the drain-pipe, it being perfectly trapped at the very outlet of the basin.

It can be introduced at the cost of the ordinary Wash Row!

For descriptive circulars,

L. S. MOORE & CO., 40 Oliver Street, Boston.



NEW TORK BOARD OF EDUCATION. Sealed proposals will be received by the School Trustees of the Eleventh Ward, at the Hall of the Board of Education, corner Grand and Elm Streets, New Tork the Mail of the Board of Education, corner Grand and Elm Streets, New Tork the Mail of the School No. 36, situated on East the Streets of the new building for Grammar School No. 36, situated on East th St., near Avenue C. Plans and specifications may be seen at the office of the Engineer, No. 146 Grand Street, third floor. Two responsible and approved sureties, residents of this city, will be required from each successful bidder. The party submitting a proposal, and the parties proposing become sur-ties, mast each write his name and place of residence on said proposal. The Trustees reserve the right to reject any or all of the proposals submitted. GEORGE P. RHOADS, JOSEPH WANGLER, SAM-UEL CREGAR, M.D., EDWARD MIEHLING, JOHN C. LIMBECK, Board of School Trustees, Eleventh Ward. Dated New York, July 8, 1876.

Dated New York, July 5, 1876.

STATE INSTITUTION. — The Trustees of the Iowa Institution for the Deaf and Dumb will receive sealed proposals for building a west wing to the present building, a boller-house, and other work, until noon of Thursday, July 27, 1876. Bids are invited for the whole or a part of the work; and the Trustees reserve the right to reject any or all bids. The plans can be seen in Council Bluffs, at the office of Wm. Ward, architect, who will answer all inquiries respecting the proposed buildings.

quirles respecting the proposed buildings. THOMAS OFFICER, N. P. DODGE, WILLIAM ORR, Executive Committee

SCHOOLHOUSE. — Proposals for the erection of a schoolhouse in the Independent District of Fayette, in Fayette township, in the country of Lynn, Iowa, will be received by the undersigned at his office in said Independence District, where plans and specifications may be seen until one o'clock, P. M., July 29, 1876, at which time the contract will be awarded to the lowest responsible bidder.

SAMUEL MC:LINYOCK.

Secretary of the Board of Directors.

PROPOSALS for wrought and east iron work for the United States Court-House and Post-Office

OFFICE OF SUPERVISING ARCHITECT.

TREASURT DEPARTMENT,
WASHINGTON, D.C., July 13, 1878.
Sealed proposals will be received at this office until 12, M., of the first day of August, 1878, for furnishing, delivering, and putting in place the wrought and cast from work, concrising rolled beaus, &c., on first and second floors, and cast ron columns, pilasters, &c., of first story, all as exhibited by the drawings, described in the specifications, and called or in the schedule. Copies of the drawings, specifications, chedule, and form of proposal, and any additional information, may be had on application at this office, or to the superniendent of the building, Mr. T. G. Heaicy.

WILLIAM A. POTTER, Supervising Architect.

S TONE CUTTERS. — Proposals will be received at the office of the Superintendent of the New Capitol, Albany, N.Y., up to 12 o'clock, noon, Tuceday, July 18, 1876, for furnishing all sandstone, and doing all cutting of all sandstone, required for the interior of the Senate and Assembly Chambers. The plans, specifications, and conditions of the contracts may be inspected at the office of the Advisory Board, Booms 3 and 4 of Broadway, New York City, where further particulars can be obtained, between the beaus of it a.w. and 3 P.M. daily, Sundays excepted. Board, Rooms o what the board of the second of the second

The American Architect and Building News.

JAMES R. OSGOOD & CO., PUBLISHERS,

WINTHROP SQUARE..... BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHI-TECTS, BUILDERS, DECORATORS, ETC.

ISSUED EVERY SATURDAY

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING. On the first page, and pages next to editorial matter, 12i mts per line (agate), or \$1.75 per inch (fourteen lines) one

s per line (agare, or \$1.5 per line) total real lines) of tion.

One inch, one month . \$7.00
One inch, three months . 29.00
One inch, nine months . 29.00
One inch one year . 79.00
other pages 10 cents per line each insertion, or \$1.40
One inch, one month . \$5.60
One inch, one month . \$5.60
One inch, line months . \$6.00
One inch, nine months . \$6.00
One inch, one year . \$6.00
extra charge for cuts, or for advertisements that occupy than one column in width.



PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

950 Broadway, New York. Send Three-Cent Stamp for Design Brushes for Waxing Floors.

National Fine Art Foundery.

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No 94 Water Street, Boston.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

FINE BRONZE HARDWARE

of the latest patterns

Bronze and Brass Hardware manufactured to order from or from architecta' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON

Fred. Reed,

E. Hixon, jun.



PARLOR GRATES, for Health and Comfort. Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England. Also, Creamer's Convex Side-Wall Registers prevent wails being discolored by furnace-heat. Floor Registers, on the lever movement, prevent dirt and sweepings ever clogging them. Celling Venitators for gas or smoke pipe, and of carry through the control of the control of

Send for Price List. If parties are living within five undred miles of Boston, it will pay to call and examine.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

MASS, INSTITUTE OF TECHNOLOGY his school offers a four-years' scientific and profes raining for Chemists, Metallurgists, Civil, Mechani Mining Engineers, Architects, Teachers of Science

nd Manufacturers.

The COURSE IN ARCHITECTURE embraces, besides the ressary scientific and mathematical studies, the study rehitectural history, and the constant practice of origin

esign.

Special students in Architecture are received into a two-rears' special course.

For particulars address WILLIAM R. WARE, ESQ., Processor of Architecture, or Dr. SAMUEL KNEELARD, Secretary, Boston, Feb. 1, 1876.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NEAR TREMONT. BOSTON.

P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Menta MORTGAGES NEGOTIATED. NO. 11 BROMPIELD STREET, BOSTON.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Hustrations 160000. \$1.50. September 1.00000 \$1.50. Boston.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

A G E N T S.

Boston.—Parsons & Torry, 605 Washingon st. Pitkin Bres.

8 Charlestown st. Allen & Noble, 94 Hanover st. Bogman a Vinal,
10 Ock sq. Farless & Boynton, 15 Comhill, Gardner & Chandler,
1321 Washington st. B. L. Solomon & Sons, 46 Franklin street.
Providence, B. L. Helcher Bros, 27 Weyboset st.
New York City.—A. Hammacher & Co., 200 Bowery;
L. J. Tillotton & Co., 8 Dey st. O. A. Nathusius, 225 Bowery; B. L.
Solomon & Sons, 805 Broadway; E. R. Krumm, 121 Essex street;
Chae, E. Kugler, 10 Division st., Speyer Bros, 110 Bowery; wt.
F. Brooklyn, (E. D.) N. Y.—Hermann Weber, 134 Graham av.
Albany.—Maurice E. Viele, 48 State st.
Rochester.—Pollock, Weaver, & Co., 17 Buffalo st.
Phitadelphia.—Thomas Thompson, Sons, & Co., 240 S. 24

84; Noblit, Brown, Noblit, & Co., 228, 221 st.; B. L. Middleton, 817

Examin st., Thomas Knight, & Co., cor. & Co., 240 S. 24

94; Noblit, Brown, Noblit, & Co., 228, 221 st.; B. L. Middleton, 817

Examin st., Thomas Knight, & Co., cor. & Co., 240 st., and Wood st.
Baltimore.—C Sidney Norris & Co., 36 Hanover st.; John
Duer & Sons, 23 South Charles st. Warfeld & Bohr, 26 So. Sharph
Uleveland, O.—George Worthington & Co., 36 Water st;
Wm. Bingham & Co., 184 Water st.
Cincianatt.—Glaescher & Kuhlman, 324 Main st.; J. L.
Chiesago.—J. L. Wayne & Son, 74 Randolph st. A. A. Ullrick
& Co., 16 Fith ave; J. Liebenstein & Co., 22 Handolph st.
Betroit.—Bulh, Ducharme, & Co., 163 Woodbridge street.

Mostreat.—James Walker & Co., 163 Woodbridge street.

Mostreat.—James Walker & Co., 165 St. James st.

Hamilton, Ont.—Watson & Thompson, 16 McNab st.

367 Our goods can be purchased of the above Agents at the same prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



ROETH & MAY, FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON. 56, 58, & 60 Park St., New York,



MADE TO ORDER.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books applied at publishers' prices,

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS. 27 WARREN STREET. NEW YORK.

THE ART FURNISHING ROOMS.

C. A. WELLINGTON, PROPRIETOR, . PLAIN, ENCAUSTIC, & ART TILES. Also Tilos for Furniture, Decorati n, and Bathroom Lining

Contractor for Tile Work in Dwellings and Public Buildings. E ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of vare Etchings and Engravings. No. 170 Tremont St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

a be readily fitted to Store Fronts. Rear Windows, or other openings, mm:

AND BURGLAR PROOF, and affording absolute protection; also WO's
AND BURGLAR PROOF, and affording absolute protection; also WO's
AND BURGLAR PROOF, and affording absolute protection; also WO's
All Partitions. Clark words and the store fronts. Frivate Houses,
of Partitions, and the protection of th

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. WHITE HOLLY. THUYA. ROSEWOOD, etc., MAHOGANY.

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

SEWERGASSHUTOFF!





JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS PATENT SIX Jennings' Patent Water Closets Enlines PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT. 94 Beekman St., Works, 9 & 11 Hague St., New York.

Boston Ornamental Iron Works CONTRACTORS & BUILDERS.

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING.

IRON CRESTINGS,

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES.

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work. Send Stamp for Catalogue

BUBIER & COMPANY, 118 MILE STREET, BOSTON. ASAHEL WHEELER'S

CONSTANT WHITE PAINT.

Invented 1850. PECIMENS OF TWENTY-FIVE YEARS' STANDING be shown looking much fresher than any other paint of

SPECIALEND VA.

an he shown looking much fresher them was an he shown looking much fresher them wo years.

It emits no poisonous gas like other paints while drying, its surface is a perfect enamel, from which any specks of its may easily be removed.

It is unequalled for beauty, durability, and economy.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scott, Street, Colling,
and others. I vol. querie deplates 415.09.
Containing cessions of Churches, Cathedrals, Colleges,
Hails, Railway: Station, Moscours, Model Dwellings, Baths,
de. JAMES B. OSGOOD & CO., BOSTOR.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 499 HARRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS Steam Mill at Concord. N. H. Offices. 10 Canal Street Boston, and Concord and Manchester, N.H. Churches an Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-ton. Posts, Ralls, Balusters, & Office Rails, furnished to order.





J. & R. LAMB,

59 Carmine St., New York

CHURCH FURNITURE

Workers in Wood, Metal and Stone for Church purp acclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decoration 10 cts. | 10 cts.

PNGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Flates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Glen," "High Life," "Low Lafe Layling John the Law "Shoeing the Bay Mare," and others of equal beauty. Quarto. Price, 816.06.

JAMES R. OSGOOD & CO., BOSTON.

CHILD-LIFE IN PICTURES. Containing RAPHAEL PICTURES. A Series of Enghael. With Historical and engraved after five paintings by Enghael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

LLUSTRATED HOMES. By E. C. GARD-NER. Ivol. equare 12mo. Illustrated. \$2.00.

"Mr. Gardner has a very persuasive and agreeable method of teaching people how to build houses suitable for homes, and of infusing good taste along with good sense in all that relates to the site, the architecture, and the utilities and adornments, of houses."—Christian Intelligencer (New York).

JAMES R. OSGOOD & CO., BOSTON.

LIENARD'S DECORATION AND ORNAMENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By LIENARD
Reproduced by the Heliotype Process. Upwards of 130
designs, rich in hints to Architects and Decorators. 1 vol.
folio, boards, \$27.00. Half morocco, cloth sides, \$30.00.

JAMES R. OSGOOD & CO., Boston. A RT FOLIAGE. By J. K. COLLING. 1 vol. quarto. 73 plates. \$15.00.

*** For sale by Booksellers. Sent postpaid, on receipt of a los, by the Publishers.

**JAMES R. OSHOOD & CO., Bosron.

Franklin Press: Rand, Avery, & Co., Boston.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late WESTON & RAND, 17 Pemberton Sq. Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 23 FEDERAL ST., BOSTON,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 93

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Fenn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work









Vol. I. No. 30.7

BOSTON, SATURDAY, JULY 22, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Wainut Street Boston. | New York. | Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., & Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor." - Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesrom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in

Quarryman, and Wholesale Dealer in BUILDING STONE, ONIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES

Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOE CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.

S. W. FULLER,
63 Devonshire Street, Boston

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quanties, by Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &c., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court 8t. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Y. Grates of every description. The ONEY MANUFAC-TREES of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, said adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

GALVANIZED IRON CORNICES, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 891 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, unlting strength, and resistance to fire and water. The Hydraullo Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron bears cellings made weeden.

brick. e-proof partitions, floor arches between iron beams, gs under wooden or iron beams, in the following

cettings under wooden or iron beams, in the following buildings:

Western Union Telegraph, Del. and Hudson Canal Co. Equitable Life Assurance, Wil'mab'g Nawings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baitmore Safe Deposit, Insurance on Wooden Manards reduced minety cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Front work is the only only proved by the New York Board of Fire Dederwiters, and proved by the New York Board of Fire Dederwiters, the only only proved by the New York Board of Fire Dederwiters, and the Superintendent of Buildings, after severe public leats.

LEONARD F. BECKWITH, President.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK ORNAMENTAL IRON WORK,

GALVANIZED IRON WORK. HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY. Office 24 Light St.,

Works, cor. Pratt and Scott Sts., Baltimore, Md.

JOHN H. REED & CO.

IRON MERCHANTS, AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in

Manufacturers of and Dealers in
omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig.
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beanns, Angle and T Iron.Boiler and Tank
Rivets, Lap-Weided Iron Boiler Tubes,
Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

e only safe and reliable machine made for Passenger use Public Buildings and Hotels, and for business purposes in archouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

OTIS TUPTS, President.

L. A. Begslow, Treas'r and Gen'l Manager.

FULLER, DANA, & FITZ, L' 110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the safe of The Union
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLET STEERT, BOSTON. GLAZED SEWER, DRAIN, AND WATER FIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BESJ. NOYES, Agent.

HENRY B. JONES & CO. etailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

MANUPACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MITCHELL, VANCE & CO.,

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WAREBOOMS, No. 597 BEOADWAT, NE NEW YORK.

L'LECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to alcepting room. Alarm given if wire is cut or tampered with, or encapsed, building, with A. BARNES, 99 Water Streez, Beilderfort, Corn. ELECTRIC

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 517 Washington St., BOSTON.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND YENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston

GRANTE BUILDING FUND ON THE BUILDING OF ANY OF STREET OF

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

A RCHITECTURAL ORNAMENTS (Sheet usiness card.
THE KITTREDGE CORNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for Flat Roofi. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. PEIRCE & CO.,

W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES,

Lowest Estinates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTOM.

CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16
Province Street Region.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT &

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS.

Steam Mill at Concord. N. H. Offices, 19 Canal Street
Boston, and Concord and Manchoster, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos-ton. Posta, Rails, Balusters, & Office Rails, furnished to order.

A PRACTICAL DRAUGHTSMAN of four years' experience in one of the best offices in New England desires a permanent situation with some architect who is in need of a young man that will look out for the interests of his employer. Experience with nearly every class of buildings. Good reference furnished. Address, W. D. M. No. 349 Main St., Worcester. Mass.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.

HAVE for many years given their exclusive attention to Fire-Proof Construction; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Eoston after the fire. Saved the city of Springfield last year.

after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or fron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOTT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS

BRIDGE, - The Board of Commissioners of Bialoge. — The Board of Commissioners of the County of Allen, State of Indiana, will receive scaled proposale at the Auditor's Office in Fort Wayne, Ind., up to I o'clock, P.M., Teaday, the 25th of July, 1876, for furnishing all material and labor for the construction of two stone abutments and one pier for a bridge scross the Maumee River at Platter's Ford, in Milan Township, Allen County, with or without pile foundation, as the nature of the odd of the river may require. Said work to be done accordage to plans and specifications adopted by the Board, and aow on file in the office of the County Auditor, and open to inspection.

Adow on hie in the omose of the County Auditor, and open to inspection. Proposals for masonry must be for "Stony Point" or "Whitehouse" stone; and bids will only be entertained per cubic yard—solid, not mason's measurement.

Proposals for coffer-dam and excavations must be in gross; bids for pile, per piled driven; and, for timber and lumber, per 1.000 feet.

Proposals must be accompanied by an indemnifying bond to the acceptance of the Board.

The Board reserves the right to reject any or all bids, or to accept a part of a bid.

Proposals for abutment and pier should be indorsed, "Bids for masonry."

to accept a part of a bid.

Proposals for abutment and pier should be indorsed,

Bids for masonry."

The Board will at the same time and place receive sealed proposals for a superstructure of wrought iron, to be built in two spans of 118 feet each in the clear respectively, between centre of pier and face of abutment, and 120 feet each extreme length. Said superstructure to have one readway, 16 feet clear width; height of truss, 16 feet; capacity of bridge to be 2,000 pounds per lineal foot, with a factor of safety of four (4), exclusive of the bridge weight. Bidders must far, ish full plans and detailed specifications, giving must far, ish full plans and detailed specifications, giving which have been supported by the control of t

Proposals not in accordance with this advertisement will not be considered.

Proposals must be accompanied by an indemnifying bond to the acceptance of the Board.

The Board will not assume any responsibility for the infringement of any patent by the contractors, and reserve the right to reject any or all bids if deemed for the interest of the county so to do.

Proposals should be indorsed, "Bid for Superstructure."
By order of the Board of Commissioners of the County of Alien.

WILLIAM T. ABBOTT, Auditor.

PROPOSALS.

PROPOSALS for wrought and cast iron work for the United States Court-House and Post Office at Atlanta, Ga.

A work for the United States Court-House and Fost-Omce at Atlanta, Ga.

OFFICE OF SUPERVISING ARCHITECT.

TREASURY DEPARTMENT,

WASHINGTON, D. C., July 15, 1876.
Sealed proposals will be received at this office until 12, &c., of the first day of August, 1876, for furnishing, delvering, and putting in prace the wrought and cast from work, comprising rolled beams, &c., on first and second floors, and cast iron columns, pllasters, &c., of first story, all as exhibited by the drawings, described in the specifications, and called for in the schedule. Copies of the drawings, septication, as, schedule, and form of proposal, and any additional information, may be had on application at this office, or to the superintendent of the building, Mr. T. G. Healey.

WILLIAM A. POTTER, Supervising Architect.

PROPOSALS for stone and brick work.

OFFICE OF SUPERVISING AROHITECT,

OFFICE OF SUPERVISING AROHITECT,

OFFICE OF SUPERVISING AROHITECT,

WASHINGTON, D.C., July 21, 1876.

Sealed proposals will be received at this office until 12, M.,

of the fourth day of August, 1876, for all the stone and brick
work required in the construction of the basement and area
walls of the United States Court-House and Post-Office at
Grand Bapids, Mich., in accordance with drawings marked

Nos. 3, 8, and 13, and the specification, form of proposal,
and any additional information, may be had on application
at this office, or of the superintendent at the building, Mr.

J. R. Stewart.

Copies or and any additional information; and any additional information; at this office, or of the superintendent at the variation of the superintendent at the variation of the superintendent at the variation of the variation



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-d

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

ods to be the

BEST IN QUALITY AND FINISH. AGENTS FOR THE TUTTLE & BAILEY REGISTER.

Send for Catalogue and Prices MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston



THE CENTRAL PARK TEST.

NEW YORK, May 25th, 1876.

WAKEFIELD FARTH CLOSET CO., 34 Dey Street, N. Y.

GENTLEMEN:

Gentlemen:

100 of your Wakefield Closets have been in use four years in Central Park. They have given entire satisfaction. We have ceased using the Water Closets, which were contaminating the water of our lakes.

Respectfully,

JULIUS MUNCKWITZ, Supt. D. P. P.

GRAND EXPOSITION HOTEL.

PHILADELPHIA, May 18, 1876-

GENTLEMEN: The fifty

CABINET CLOSETS

that you sent us give general satisfaction to our guests. We will send you an order shortly for as many more.

M. RILEY, Manager.

For further Testimonials and Descriptive Circulars send to

WAKEFIELD EARTH CLOSET CO ..

34 Dey Street, N. Y.

Or Agency, 900 Walnut Street, Philadelphia.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Boller, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Portable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boller, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS Haverhill, and 14 Bedford Street, Boston.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

No small can arise from the drain-pipe, it being perfectly trapped at the very outlet of the basin.

It can be introduced at the cost of the ordinary Wash Power.

owi. For descriptive circulars, addre

L. S. MOORE & CO.,

40 Oliver Street, Boston.

YALE LOCKS, "STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESBOOM.

No. 53 Chambers Street, New York.





PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING, 50 Broadway, New York. Three-Cent Stamp for Desi Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York,

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze

The Rogers Patent Wooden Honses.

John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.



W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.



(Established 1844.)

PARLOR GRATES.

For Health and Comfort.

Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England.

H. M. CREAMER. 86 North Street, Boston

Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

TO INVENTORS AND MANUFACTURERS



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERN

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement,

WALDO BROTHERS,

No. 94 Water Street, Boston

XAMPLES OF MODERN ARCHITEC-From designs by SCOTT. STEERT, COLLING, 1 vol. quarto. 64 plates. \$15.00.

If designs for Churches, Cathedrals, Colleges, way Stations, Museums, Model Dwellings, Baths. AMMES R. OSGOOD & CO., EOSTOM.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WARRHAM STREET.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workman

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon. Fred. Reed. E. Hixon, jun.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street, BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.
This school offers a four-years' scientific and professional training for Chemista, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.
THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

sign. Special students in Architecture are received into a two-Special students of years' special course.
For particulars address William R. Warr, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary, Boston, Feb. 1, 1876.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NEAR TREMONT, BOSTON.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Lessing Estates and the Collection of Rents.
MORTGAGES SEGOTIATED. MO. II BROMFIELD
STREET, BOSTON.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 16mmo. \$1.50. JAMES R. OSGOOD & CO., BOSTON.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 656 Washingon st; Pitkin Bros. 25 Charlestown st; Allen & Noble, 98 Hanover st; Bogman & Vinai, Dock sq; Farless & Boynton, 13 Corshill; Gardner & Chandler, 521 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Sul Washington st; B. L. Solomon & Sons, 49 Franklin street.

New York City.—A Hammancher & Co., 298 Bowery; L. J. Tillottson & Co. 8 Dey st; 7. A. Nathusius, 299 Bowery; B. L. Solomon & Sons, 699 Broadway; E. R. Krumm, 121 Essex street; Chas. E. Kugler, 10 Division st. Speyer Bros., 10 Bowery; W. F. Hubinger, 198 Grand st; C. A. Stock, 116 Wooster street.

Albany.—Maurice E. Vile, 41 State st.

Rochester,—Pollock, Weaver, & Co., 17 Buffalo st.

Ruffalo.—C. H. Utley, 32 Pearl st.

Rothester,—Pollock, Weaver, & Co., 17 Buffalo st.

Ruffalo.—C. H. Utley, 32 Pearl st.

Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 24

2, Noblit, Brown, Noblit, & Co., 22 S. 28, st; B. L. Middleton, 517

3, 28 st; B. L. Solomon & Sons, 20 N. 28 st; F. A. Bueren, 852 E.

Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 24

2, Noblit, Brown, Noblit, & Co., 22 S. 28, st; B. L. Middleton, 517

3, 28 st; B. L. Solomon & Sons, 20 N. 28 st; F. A. Bueren, 852 E.

Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 24

2, Noblit, Brown, Noblit, & Co., 22 S. 38, st; B. L. Middleton, 517

Noblet, Sons, 24 South Charles st; Warfield & Bohr, 62 So. Sharp st.

Cleveland, G.—George Worthington & Co., 90 Water st; Nobleman, 52 Sons, 23 South Charles st; Warfield & Bohr, 62 So. Sharp st.

Chicago.—J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph st; A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph st; st. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 28 Randolph st. A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 28 Randolph st. St. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 16 St. James.

Washington, — E. L. S. Sonon, 16 McNab st.

Hamilton, — Dec. A. Rubelmann & Co., 16 St. James.

Hamilton,

Our goods can be purchased of the above Agents at the ame prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON, 56, 58, & 60 Park St., New York,



METAL WORKERS.

Escutcheons, Locks, Hinges, Andiro Fenders, Knockers, &c., MADE TO ORDER.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific B

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS,
27 WARMEN STREET, NEW YORK.

THE ART FURNISHING ROOMS,

C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. n, and Bathroom Linin

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

Mar Manufacturer of Fine Farmitnee, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston,

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

and at London, Paris, Vienna, Berlin, Melbourne, &c.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., THUYA, MAHOGANY,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.



SEWERGASSHUTOFF!







PLUMBERS' SUPPLIES

Jennings' Patent Water Closets, Ennings' Patent Disinfector.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York.

CALLANDE MILD END THREE CENT STAMP FOR BOOK OF DESIGNS! New Vork.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON For Building

IRON AND WIRE RAILING. IRON CRESTINGS

IRON STABLE FIXTURES, FOUNTAINS

GARDEN STATUARY.

WEATHER VANES,

BUILDERS' HARDWARE.

Estimates given on all kinds of Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON

HOMES AND HOW TO MAKE THEM.

By E. C. GARDSER. Hustrated. 1 vol square 12mo.

JAMES R. OSGOOD & CO., BOSTOR

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

be removed.

d for beauty, durability, and eco

OFFICE AND STORE 145 MILK STREET, BOSTON.

CREEN SOORS THE UNION SPRING HINGES



J. & R. LAMB, 59 Carmine St., New York.

CHURCH FURNITURE

Workers in Wood, Metal and Stone for Church p clusively. Polished Brass and Sterling Silver

Work | Metal & Stone Work | Banners & Decc cts. 10 cts.

Franklin Press: Rand, Avery, & Co., Boston.

ARCHITECTS.

OFFICES OF FRANK W. WESTON.

17 Pemberton Sq. Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."







Vol. I. No. 31.7

BOSTON, SATURDAY, JULY 29, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS. 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where "avy pressures are used; and the case and certainty with which a joint can be made are great recom-mendations in its favor." — Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE Seamless woven, and able to withstand immense pressure. The most practical Hose for use in FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Selersom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHEEST, AND BEREA QUARRIES
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BRST IN USE.
S. W. FULLER,
63 Devonshire Street, Boston.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quanties, by
GEO, BARNEY, Swanton, Yt.
Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).

J. ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILFOAD CARS, OFFICES, &c., No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor TURBER of these goods in New England. No. 11 Marshall Street, Box on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

GALVANIZED IRON CORNICES, CAMPBELL PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting rength, and resistance to fire and water. The Hydraulic line of Tell (France), one of the strongest cements known, largely used in this manufacture. The blocks do not not heat, cold, or sound, and weigh sixty per cent less

brick. re-proof partitions, floor arches between iron beams, ngs under wooden or iron beams, in the following

watern Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Wil'mab gli Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Windoor Hotel, Strack Savings Bank, Columbia College, Windoor Hotel, Strack Savings Bank, Columbia College, Windoor Hotel, New York Hospital, The Baitmore Savings Bank, Columbia College, Strack Savings Bank, Columbia College, Strack Savings Bank, Columbia College, Strack Savings Bank, Columbia College, Savings Bank, Columbia College, Savings Bank, Columbia College, Savings Bank, Columbia College, Savings Bank, College, Savings Ban

LEONARD F. BECKWITH, President Office, 111 Broadway, N.Y.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Office 24 Light St. Works, cor. Pratt and Scott Sts.,

Baltimore, Md.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boller and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, and Deek Beams, Angle and T Iron, Boller and Tank Rivets, Lap-Welded Iron Boller Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

only safe and reliable machine made for Passenger ublic Buildings and Hotels, and for business purpose chouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

OTIS TUPES, President.

L. A. BIGELOW, Treas'r and Gen'i Manager.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT IRON BRANK, and THE
"BURDER BEST" IRON, Tensile Strength 78,000 ibs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLET STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMSEY TOPS, FUNNEL STONES, &G. BENJ. NOYES, Agent.

S. A. STETSON & CO., 173 Tremont St.,
Boston, GAS FITTERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders furnished
with the lowest estimates.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

FOR CHURCHES, BANKS, PUBLIC AND PRIVATE BUILDINGS.

ALSO GAS FIXTURES
WAREBOOMS, No. 597 BROADWAY, NE

ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or cutrance made. Sure thing. W.M. A. BARNES, 199 WATER STREET, BRIDGEFORT, COSN.

G AS FIXTURES OF EVERY DESCRIPTION. SPECIAL RATES TO BUILDERS. R. HOLLINGS & CO., 547 Washington St., BOSTON.

WALWORTH MANUFACTURING CO.
STEAM AND HOT WATER WARMING AND
VENTILATING APPARATUS. Gas Lighting Apparatus
Wrought from Pipes and Fittings. No. 69 Kilby St., Boacto

CAPE ANN GRANITE COMPANY -FumishGRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., HOSTON.
Quarries: BAY VIEW, GLOUCESTER, MASS.
JONAS H. FRENCH, Fres.
SCOTT WEBBER, Supt.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS.
No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
Opp. Park-Street Church,
DECORATOR AND DESIGNER,
DECORATOR AND DESIGNER,
Opp. Park-Street Church,
DECORATOR AND DESIGNER,
DECORATOR AND DESIGNER,
Opp. Park-Street Church,
DECORATOR AND DESIGNER,
DECORATOR AND DESIGNER,
DECORATOR AND DESIGNER,
Opp. Park-Street Church,
DECORATOR AND DESIGNER,
DECORA

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

A RCHITECTURAL ORNAMENTS (Sheet

business card.
THE KITTREDGE CORNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for PELAT ROOFS. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, IT Central Street, Boston.

M. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

Togs and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at
Wholesale Prices HAWTHORNE & TUCKER, 16
Province Street, Boston.

PELTING FOR ELEVATORS, HOSE OF
Linen, Leather, and Rubber. HENRY C. HUNT &
CO., 45 Arch Street, Boston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
NOS. 488 & 490 HARRISON AVENUE, BO

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchester, N.H. Churches and
Public Fulldings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverbill St., Bos-ton. Posts, Italis, Balusters, & Office Rails, furnished to order.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.

HAVE for many years given their exclusive attention to FIRE-PROOF COMPRECEION; and they now invite the correspondence of Architecta to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

after fac are. Savea the city of Springhent has year.

FRE-PROP LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. How will be pleased to wait upon Architects, when esired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

PROPOSALS FOR GRAY GRANITE,

PROPOSALS FOR GRAY GRANITE,
BRICKS, LIME, AND SAND.

OFFICE OF SUPERVISING ARCHITECT.
TREASURY DEPARTMENT,
WASHINGTOR, D.C., July 25, 1876.
Scaled proposals will be received at this office until 12, m.,
of the fifteenth day of August, 1876, for furnishing, and delivering at the site of the United States Court-House and PostOffice, at Atlanta, Ga., all the gray granite required for the
superstructure, &c., of that building, cut ready for setting,
in accordance with plans, specification, and schedule: also
for forty-dwe thousand (45,000), more or less, hard burned common
red bricks, aound and free from limestone, of the best quality,
taken, in each case, from the heart of the klin: and eight
hundred (800) barrels, more or less, of lime (two and a half
bushels per barrel), of the best quality: and two hundred
(200) cubic yards, more or less, of lime (two and a half
bushels per barrel), of the best quality: and two hundred
(200) cubic yards, more or less, of lime (two and a half
bushels per barrel), of the best quality: and two hundred
(200) cubic yards, more or less, of lime (two and a half
bushels per barrel), of the best quality: and two hundred
(200) cubic yards, more or less, of lime (two and a half
bushels per barrel), of the best quality: and two hundred
from the proposal of the superintendent, and the progress of
the work.

Bidders will submit with their proposal a sample of such
material, properly labelled, as they propose to supply.
Copies of the drawings, specification, schedule, and form
of proposal for the granite work, and any additional information, may be had on application at this office, or at the
office of the superintendent at the building.

The Department reserves the right to reject any or all bids,
if it be deemed in the interest of the Government to do so.

"Proposals for gray granite in scaled envelopes, indorsed.

"Proposals for gray granite in scaled envelopes, indorsed.

"Proposals for gray granite in scaled envelopes, indorsed.

"Proposals for gray granite in scaled envelopes, indor

PROPOSALS FOR WROUGHT AND CAST I IRON WORK FOR THE UNITED STATES COURT HOUSE AND POST-OFFICE AT COVINGTON, KY.

HOUSE AND POST-OFFICE AT COVINGTON, KY.

OFFICE OF SUPERVISING ARCHITECT.

TREASURY DEPARTMENT,

WASHINGTON, D.C., July 26, 1876.

Sealed proposals will be received at this office until 12, M., of the sixteenth day of August, 1876, for furnishing, delivering, fittine, and putting in place the wrought and cast from work, comprising rolled-iron beams, &c., in first and second floors, and cast from columns, pllasters, &c., of first story; all as exhibited on the drawings, described in the specification, and called for in the schedule.

Copies of the drawings, specification, form of proposal, and any additional information, may be had on application at this office, or to the Superintendent of the building, Mr. M. P. Smith.

WM. A. POTTER, Supervising Architecture.

PROPOSALS.

PROPOSALS for wrought and cast iron work for the United States Court-House and Post Office

work for the United States Court-House and Post-Office at Atlanta, Gs.

OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT, THE ARCHITECT,
WASHINGTON, LO. JULY 31, 1878.
Sealed proposals will be removed from the first day of August, 1878, for furnishing, delivering, and putting in piace the wrought and cast from work, comprising rolled beams, &c., on first and second floors, and cast from columns, pilasters, &c., of first story, all as exh. bited by the drawings, described in the specifications, and called for in the schedule. Copies of the drawings, specifications, schedule, and form of proposal, and any additional information, may be had on application at this office, or to the superintendent of the building, Mr. T. G. Healey.

WILLIAM A. POTTER, Supervising Architect.

PROPOSALS for stone and brick work.

OFFICE OF STORE WORK.

OFFICE OF STOREMENT ARCHITECT,
TREASCRY DEPARTMENT,
TREASCRY DEPARTMENT,
TREASCRY DEPARTMENT,
WARRIED AND THE STOREMENT ARCHITECT,
WARRIED AND THE STOREMENT ARCHITECT,
THE SEARCH OF THE STOREMENT AND THE S

at this office, or of the superintendent.

J. R. Stewart.

WILLIAM A. POTTER, Supervising Architect.

TERRA-COTTA WORK.

OFFICE OF BEN. J. BARTLETT, ARCHITECT,
ROOM NO. I, RICHARIES BLOCK, MAIN STREET,
Proposals for the terra-cottan or required in the crection
of the lows Reform School in order required in the crection
of the lows Reform School in order required in the crection
of the lows Reform School in order required in the crection
as pecifications by Hen. J. Hardlett, architect, will be received
until the eighth day of August, 1878. Plans and details may
be seen at the office of the architect in Ottumwa, Io., or at
the school at Eldors, Hardin County, Io.

Proposals should be addressed to

E. ANDREWS,
Chairman Building Committee, Eldora, Io.



THE CENTRAL PARK TEST.

NEW YORK, May 25th, 1876.

WAKEFIELD EARTH CLOSET CO., 34 Dey Street, N. Y.

GENTLEMEN:

GENTLEMEN:

100 of your Wakefield Closets have been in use four years in Central Park. They have given entire satisfaction. We have ceased using the Water Closets, which were contaminating the water of our lakes.

Respectfully,

JULIUS MUNCKWITZ, Supt. D. P. P.

GRAND EXPOSITION HOTEL, PHILADELPHIA, May 18, 1876-

GENTLEMEN: The fifty

CABINET CLOSETS

that you sent us give general satisfaction to our guests. We will send you an order shortly for as many more.

M. RILEY, Manager.

For further Testimonials and Descriptive Circu-

WAKEFIELD EARTH CLOSET CO.,

34 Dey Street, N. Y.

Or Agency, 900 Walnut Street, Philadelphia.

E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS

1131 TREMONT ST., Boston.

to the Superintendent of the building, Mr.

WM. A. POTTER, Supervising Architect.

are invited to confer with us

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Briler, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston.

Haverhill, and 14 Bedford Street, Boston,



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

No SMELL can arise from the drain-pipe, it being perfectly trapped at the very outlet of the basin.

It can be introduced at the cost of the ordinary Wash Bowt.

For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.

YALE LOCKS, "STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESBOOM.

No. 53 Chambers Street, New York.





PARQUET FLOORS.

The National Wood Manning Co.

WOOD CARPETING, 050 Broadway, New York Three-Cent Stamp for Des Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York,
Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs unished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.





HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH. AGENTS FOR THE TUTTLE & BAILEY REGISTER.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston



[Established 1844.1

PARLOR GRATES,

For Health and Comfort.

H. M. CREAMER,

86 North Street, Boston. and for Price List. If parties are living within five miles of Boston, it will pay to call and examine.

TO INVENTORS AND MANUFACTURERS



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON

Fred. Reed

E. Hixon, jun.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.
sional training for Chemiata. Metallurgista, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science.

all, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Special students in Architecture are received into a two-years' special course.

For particulars address WILLIAM R. WARE, ESq., Professor of Architecture, or Dr. SAMUEL KNEELAND, Secretary, BOSTON, Feb. 1, 1876.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERTY DESCRIPTION. 2 "A" BEACON STREET, WEAT TREMONT, BOSTON.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

MABEL MARTIN. A Harvest Idyl, By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 16mmo. \$1.50. B. OSGOOD & CO., BOSTON.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

A G E N T S.

Boston.—Farsons & Torry, 838 Washingon st; Pitkin Bros. 23 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, 7 Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 1321 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. I. Belcher Bros, 27 Weybosset st.
New York City.—A. Hannmacher & Co., 299 Bowery; B. L. Stolomon & Sons, 69 Broadway; B. E. Krumm, 121 Essex street; Hobinger, 198 Grand st; C. A. Stock, 116 Wooster street.

Hrooklyn, (E. D.) N. Y.—Hermann Weber, 134 Grahamav. Albany.—Maurice E. Vile, 41 State st.

Rochester.—Pollock, Weaver, & Co., 17 Buffalo st.

Huffalo.—C. H. Utley, 22 Pear ist.

Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 24 &; Nobli, Brown, Noblit, 25 Co., 225 S. 26 st; B. L. Middleton, 817 Albany.—Thomas Knight & Co., 201 S. 26 st; B. L. Middleton, 817 Albany.—Thomas Knight & Co., 202 S. 28 St; B. L. Middleton, 817 Albany.—Joseph Woodwell & Co., 07 d. 82 se, and Green st.

Phitaburg.—Joseph Woodwell & Co., 07 d. 82 se, and Green st.

Pittsburg.—Joseph Woodwell & Co., 07 d. 82 se, and Green st.

Pittsburg.—Joseph Woodwell & Co., 07 d. 82 se, and Green st.

Pittsburg.—Joseph Woodwell & Co., 07 d. 82 se, and Green st.

Pittsburg.—Joseph Woodwell & Co., 07 d. 82 se, and Woods.

Baltimore.—C. Sidney Norris & Co., 38 Hanover st; John Dure & Sons, 42 South Charles st; Warfeld & Bohr, 62 So. Sharp st.

Cleveland, O.—George Worhington & Co., 99 Water st; Wm. Bingham & Co., 182 Water st.

Clinclinant.—Giaseches & Kuhlman, 534 Main st; J. L. Wayne & Son, 124 Main st; J. Lobenstein & Co., 22 Randolph st; Detroit.—Buhl, Ducharme, & Co., 161 Woodfridge street.

Washington.—F. P. May & Co., 61 Woodfridge street.

Montreath.—James Walker & Co., 161 Woodfridge street.

Washington.—F. P. May & Co., 61 Pennsylvania svenue.

San Francisco.—B. L. Solomon & Sons, 410 Market street.

Montreath.—James Walker & Co., 161 Woodfridge street.

Hamilton, Oth.—Wat

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY, FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON. 56, 58, & 60 Park St., New York,



METAL WORKERS. Escutcheons, Locks, Hinges, Andirons, Fenders, Knockers, &c.,

MADE TO ORDER.



CATALOGUE OF Architectural Books

Mailed free to any address.

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET. NEW YORK.



PLAIN, ENCAUSTIC, & ART TILES. ture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings. No. 170 Tremont St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbon

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., WHITE HOLLY. MAHOGANY. THUYA.

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

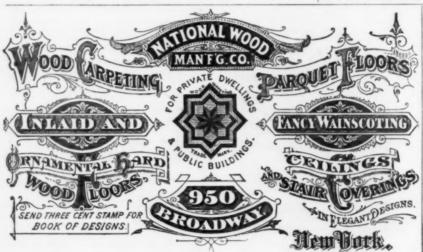
PLUMBERS' SUPPLIES

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, ENNING PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.



Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON For Building

FOUNTAINS,

IRON AND WIRE RAILING, IRON CRESTINGS,

IRON STABLE FIXTURES.

GARDEN STATUARY.

WEATHER VANES,

AND BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue BUBIER & COMPANY, 118 MILK STREET, BOSTON

SCREEN BOORS
USE USE THE UNION SPRING HINGES
oting only \$1.00 per pair

ASAHEL WHEELER'S

J. & R. LAMB, 59 Carmine St., New York CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively. Pollshed Brass and Sterling Sliver.

Illustrated Catalogues Post Free.
Wood Work Metal & Stone Work | Banners & Decoration 10 cts.

PRACTICAL DRAUGHTSMAN of four

ts of his employer.
rience with nearly every class of buildings. G
ce furnished. Address. W. D. M.
No. 349 Main St., Worcester, M

Franklin Press: Rand, Avery, & Co., Boston.

ARCHITECTS.

OFFICES OF FRANK W. WESTON,

17 Pemberton Sq. Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 23 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work







Vol. I. No. 32.7

BOSTON, SATURDAY, AUGUST 5, 1876.

PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | Boston. | New York. | Philadelphia.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., & Beekman Street, New York

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor."— Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, Mass.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale D BUILDING STONE,

ORIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES. Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOE CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE

8. W. FULLER,
63 Devonshire Street, Boston.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, fur-nished in large or small quanties, by GEO. BARNEY, Swanton, Vt. Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &c., No. 256 West 44th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court 81. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Boo on.

VENTILATION.—IMPROVED WALL
AND WINDOW VENTILATORS, that will supply
pure air, wituout dust or cold draughts, and adapted to
large or small rooms. Call or send for Circulars. W. H.
KIMBALL, 120 Trement Street Bosion.

GALVANIZED IRON CORNICES,
HAYES'S PATENT VENTILATING SKYLIGHTS,
Campbell's Patent Chimney Jacks, Window Capa, &c.
SMITH & VAN NOODBEN, 387 Harrison Avenue, Boston

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF

NEW YORK. Hollow Blocks of any pattern, uniting
strength, and resistance to fire and water. The Hydraulic
Lime of Teil (France), one of the strongest cements known,
is largely used in this manufacture. The blocks do not
conduct heat, cold, or sound, and weigh sixty per cent less
than brick.

Fire-proof partitions, floor arches between iron beams,
cellings under wooden or iron beams, in the following
buildings:

Western Union Telegraph,
Del. and Hudson Canal Co.,
Staats Zeltung,
Coultable Life Assurance,
Honca Library,
Westminster Hotel,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Baltimore Safe Beposit,
Tribune, Feabody Museum.
Insurance on Wooden Mansards reduced minety cents per
Side. Sidewalks laid at Lenox Library, Tribune, &c., Holflow Bricks of all kinds. Our Fire-Frod work is the only
one approved by the New York Board of Fire Underwriters,
and the Superninendent of Buildings, after severe public
tests.

LEONARD F. BECKWITH, President.

LEONARD F. BECKWITH, President

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS, As laid by us in

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every part of the Country. Glazed and Enamelled Tiles for Mantels, Hearths, Wain

scoting, &c., and for Exterior Decoration MILLER & COATES 279 PEARL STREET, NEW YORK.

BARTLETT, ROBBINS, & CO.,

RCHITECTURAL IRON WORK ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Office 24 Light St. Works, cor. Pratt and Scott Sts., BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron. Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COV 31-NATION ROPE ELEVATOR,

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business parroses in Warehouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New Yor

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

POTTIER & STYMUS

MANUFACTURING COMPANY.

INTERIOR WOODWORK,

DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st and 42d Streets, New York.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WARKEOOMS, No. 587 BROADWAY, NEW YORK.

ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BRIDGERORY, COSE.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS.
NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 19 SORGOL STREAT, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDER BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA NY, 24 HAWLET STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND 18 CHANDELIERS. Gas Pipe, and Fitting in all its heas. Architects, Contractors, and Builders (armished

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND WENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOCKESTER, MASS.
JONAS B. FRENCH, Pros. H. H. BEINETT, Treas.
SCOTT WEBBER, Supl.

A RCHITECTURAL ORNAMENTS (Sheet Metal), New Catalogue free to all Architects, Send business card.

THE KITTREDGE CURNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGI ELT ROOFING COMPANY, 17 Central Street, Bost

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
H7 AND H9 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

Ings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CACEGEWAY AND FRIEND STREETS, BOSTOS.

DLUMBERS' MATERIALS to Builders at
Wholesale Prices HAWTHORNE & TUCKER, 16

BELTING FOR ELEVATORS, HOSE OF Lines, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to First-Proof Construction; and they now invite the correspondence of Architects to the following specialities which recaffer will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance
Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOYT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

PROPOSALS FOR WROUGHT AND CAST IRON WORK FOR THE UNITED STATES CUSTOM-HOUSE AND POST-OFFICE, AT ST. LOUIS, MO.

MO.
OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT, WASHINGTON, D.C.,
July 31, 1816.
Sealed proposals will be received at this office until 12, M.,
of the 21st day of August, 1878. for furnishing, delivering,
fitting, and putting in place, the wrought and cast iron
work, comprising rolled beams, &c., in third and fourth
story floors, and cast from plasterers, &c., in second and
third stories, all as exhibited on the drawings, described
in the specification, and called for in the schedule,
Copies of the drawings, specification, schedule, form of
proposal, and any additional information, may be had on
application at this office, to the Superintendent of the
bhilding, Mr. Thomas Waish.
W. A POTTER, Supervising Architect.

PROPOSALS FOR WROUGHT AND CAST

PROPOSALS FOR WROUGHT AND CAST
HOUSE AND POST-OFFICE AT COVINGTON, KY.

OFFICE OF SUPERVISING ARCHITECT,

TREASET BEFARMENT,

WASHINGTON, D.C., July 26, 1876.

Sealed proposals will be received at this office until 12, M.,
of the sixteenth day of August, 1876, for furnishing, delivering,
fitting, and putting in place the wrought and cast from work,
comprising rolled-iron beams, &c., in first and second floors,
and cast from columns, pliasters, &c., of first story; all as
exhibited on the drawings, described in the specification,
and called for in the schedule.

Copies of the drawings, specification, form of proposal,
and any additional information, may be had on application
at this office, or to the Superintendent of the building, Mr.

M. P. Smith.

WM. A. POTTER, Supervising Architect.

PROPOSALS.

PROPOSALS FOR GRAY GRANITE,
BRICKS, LIME, AND SAND.
OFFICE OF SUPENIES ARCHITECT.
WASHINGTON, D.C., July 25, 1876.
Sealed proposals will be received at this office until 12, w., of the fifteenth day of August, 1876, for furnishing and delivering at the site of the United States Court-House and Post-Office, at Atiants, Ga., all the gray granite required for the superstructure, &c., of that building, cut ready for setting, in accordance with plans, specification, and schedule; also for forty-five thousand (45,000), more or less, hard burned pressed bricks for facings, and four hundred and twenty-eight thousand (48,000), more or less, hard burned common red bricks, sound and free from linestone, of the best quality; taken, in each case, from the heart of the two and light thousand (48,000), more or less, hard burned common red bricks, sound and free from linestone, of the best quality; taken, in each case, from the heart of the two and light bunklets per barrell), of the best quality; and two bundred (260) cubic yards, more or less, of clean sharp river and. Belivery of the bricks, lime, and sand to be in such quantities as required by the superintendent, and the progress of the work.

Bids for the granite, bricks, lime, and sand should be made on the printed form, to be obtained on application at this office, or at the office of the superintendent.

Bidders will submit with their proposal a sample of such material, properly labelled, as they propose to supply.

Copies of the drawing, aspecification, schedule, and form of proposal for the granite work, and any additional information, may be had on application at this office, or at the "Proposals must be enclosed in sealed envelopes, indorsed, Proposals must be enclosed in sealed

WILLIAM POPE, Chairman.

TERRA-COTTA WORK.

POPICE OF BEN. J. BAETLETT, ARCHITECT,
ROOM NO. I. RIGHARDS' BLOCK, MAIN NYMEET,
Proposals for the terra-cottant required in the erection
of the lows Reform Schools in No. Toguired in the erection
of the lows Reform Schools in the erection
specifications by Ben. J. Bartlett, architect, will be received
until the sighth day of August, 1818. Plans and details may
be seen at the office of the architect in Ottumwa, Io., or at
the school at Eldora, Hardin County, Io.
Proposals should be addressed to
E. ANDREWS,
Chairman Building Committee, Eldora, Io.



HEADQUARTERS PARLOR

GRATES. THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-down

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the

BEST IN QUALITY AND FINISH.

AGENTS FOR THE TUTTLE & BAILEY REGISTER.

Send for Catalogue and Prices.

MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston.

JUST ISSUED!

New Edition, Revised and Enlarged. HOBBS'S

Suburban and Rural Architecture.

ILLUSTRATED WITH 172 ENGRAVINGS, CONTAIN-ING DESIGNS AND GROUND PLANS FOR VILLAS, COTTAGES, AND OTHER EDIFICES, ADAPTED TO THE UNITED STATES; WITH RULES FOR CRITI-CISM, AND INTRODUCTION.

Syo. Cloth. \$3.00.

"Each design is accompanied with a criticism, and an estimate of the cost of the structure. . . A very useful volume, written by a practical architect, who has not only perception of use, but a perception of the use of beauty."—Boston Daily Globe.

. For sale by all booksellers, or will be sent by mail, ostpaid, on receipt of the price, by

J. B. LIPPINCOTT & CO., Publishers, 715 and 717 Market St., Philadelphia.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Bolier, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Portable Bolier, especially, is easy to erect. efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Bolier at our salesrooms. It has been in practical operation in buildings and private realdences the past winter; and its working has been emently satisfactory in every respect. We lasue a Pamphlet with a fine description of the Bolier, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston.



PROTECT

YOUR HOUSES

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of the usends of dollars.

No SMELL can arise from the drain-pipe, it being perfectly trapped at the very outlet of the basin.

L can be introduced at the cost of the ordinary Wash For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.

YALE LOCKS, "STANDARD" LOCKS,

Ornamental Real Bronze Hardware. THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESBOOM,

No. 53 Chambers Street, New York.





PARQUET FLOORS.

The National Wood Manufag Co. WOOD CARPETING,

Send Three-Cent Stamp for Dei Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York, Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses John W. Marshall, ARCHITECT,

General Agt., 265 Broadway, N.Y.



EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

120 Washington St., (New No. 364.)

BOSTON.

E. Hixon, jun.



(ESTABLISHED 1844.) **PARLOR GRATES**

For Health and Comfort.

Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England.

H. M. CREAMER.

86 North Street, Boston Send for Price List. If parties are living within five hundred miles of Boston, it will paytocall and examine.

TO INVENTORS AND MANUFACTURERS

bition of the American Institute will open Sep-hinery will be received after August 18th, other is 28th. Increased a wards and a Special Gold Medal r particulars, blanks, etc., address "General Sapar-an Institute. New York.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, BEAR TRENONT, BOSTON.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By LIENARD Reproduced by the Heliotype Process. Upwards of 129 designs, rich in hints to Architects and Decorators. 1 vol. folio, boards. \$27.00. Half morocco, cloth sides. \$30.00.

JAMES R. OSGOOD & CO., BOSTON.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.

J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metai and Stone for Church purpose exclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decoration 10 cts.

WANTED. -- By an Established Civil Engineer in a large and growing city of Pennsylvania,

who is too much engaged by other business to attend properly, a graduated architect as partner, with from \$500 to \$800 capital. Address "ENGINEER," care "American Architect and Building News," Boston.

A PRACTICAL DRAUGHTSMAN of four Lyears' experience in one of the best offices in New ingland desires a permanent situation with some architect rho is in need of a young man that will look out for the atterests of his employer. interests of his employer.

Experience with nearly every class of buildings. Good reference furnished. Address, W. D. M.,

No. 349 Main St., Worcester, Mass.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years scientific and professional training for Chemists. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

The Course in Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

esign.
Special students in Architecture are received into a two-cars' special course.
For particulars address WILLIAM R. WARE, Esq., Pro-essor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.

JAMES R. OSGOOD & CO., BOSTON

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN. Reproduced by the Heliotype Process.
I vol. quarto. Boards \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., BOSTON.

ENGRAVINGS FROM LANDSEER. P. NGKAVINGS FROM LANDSEER. Reproduced in Heilotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest, "The Monarch of the Glen, "High Life, "Low Life," "Laying Down the Law," "Shooing the Billot, "Lavie," and others of equal beauty. Quarto. Frice, \$10.00. B. C. S. GOOD & CO., Boston.

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by Scott, Sterr, Colling, and others. I vol. quarto. 64 plates. \$15.00. Containing designs for Churches, Cathedrais, Colleges, Halls, Rallway Stations, Museums, Model Dwellings, Bathe, &c. JAMES R. OSGOOD & CO., Bostos.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. 1 vol. square 12mo
JAMES R. OSGOOD & CO., BOSTON

GOTHIC FORMS. By B. J. TALBERT. 1 vol.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Corresogno, Cop-LET, REYNOLDS, GREUZE, LAWERNCE, MURILLO, GERARD, RAPHAEL, and other celebrated painters, a forming a series of charming pictures of children and child-life. Price, \$10.00. JAMES R. OSGOOD & CO., Boston.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 16mmo. \$1.50. SAMES R. OSGOOD & CO., ROSTON.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

A G E N T S.

Boston.—Parsons & Torry, 638 Washingon st. Pitkin Bros.

Boarlestown st. Allen & Noble, 64 Hanover st. Bogman & Vical,
Dock sq. Farless & Boynton, 18 Cornhill; Gardner & Chandler,
321 Washington st.; B L. Solomon & Sons, 49 Franklin street.

Prevvidence, R. I. — Belcher Bros, 27 Weybosset st.

New York Olty, — A. Hammancher & Co., 39 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. A. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. A. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. A. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. A. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. C. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. C. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. C. Nathusius, 239 Bowery;
L. J. Tillotton & Co., 8 bey st.; O. C., 17 Buffalo st.

Brookly sq. (E. D.) N. Y. — Hermann Weber, 134 Graham av.

Albamy. — Maurice E. Viele, 41 State st.

Rocheater. — Pollock, Weaver, & Co., 17 Buffalo st.

Buffalo. — C. H. Ulley, 32 Pearl st.

Philladelphia. — Thomas Thompson, Sons, & Co., 38 a.

4. Nobili, Brown, Nobili, & Co., 222, 23 st.; B. I. Middleton, 813

Buthin st; Thomas Knight & Co., 607, Ridge ave, and Green st.

Pittaburg.— Joseph Woodwell & Co., 607, 34 ave, and Woodst.

Baltimore. — C. Sidney Norris & Co., 36 Hanover st.; John Durc & Sons, A South Charles st; Warfield & Bohr, 62 80. Sharp st.

Claveland, G. — George Worthington & Co., 90 Water st., Wn. Bingham & Co., 18 Wain st.; J. L.

Wayne & Son, 18 Main st.; A. Lullrich & Co., 16 Till Naver, J. L. Wayne & Son, 74 Randolph st.; A. A. Ullrich & Co., 16 Till Naver, J. L. Butteroit. — Buhl, Ducharme, & Co., 16 Woodbridge street.

Washington. — F. F. May & Co., 64 Sunnay Naver.

Washington. — F. R. Wayne & Son, 74 Randolph st.; A. A. Ullrich & Co., 16 Till Naver, J. L. Wayne & Son, 74 Randolph st.; A. A. Ullrich & Co., 16 Till Naver, J. Shaw & Co., 78 Lohn st.

Washington. — F. F. May & Co., 64 Sunnay Naver.

Washington. — F. F. May & Co., 64 Sunnay Naver.

W

Our goods can be purchased of the above Agents at the prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON. 56, 58, & 60 Park St., New York,



CATALOGUE OF Architectural Books

Mailed free to any address. All architectural and Scientific Books applied at publishers' prices,

A. J. BICKNELL & CO.. ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

ROLLING SHUTTERS,



STEEL AND WOOD.

Stores, Dwellings, &c.

CAN BE FITTED INSIDE OR OUTSIDE THE GLASS.

Cannot get out of order.

WILSON & JAMES.

Manufacturers under Patents Nos. 155, 398, and 172, 705, of

The New Venetian Rolling Shutter.

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, THUYA. WHITE HOLLY. MAHOGANY. ROSEWOOD, etc.,

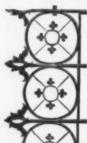
In Logs, Planks, Boards, and Vencers. Dowels all Sizes

Office, 10 Travers St., Boston.

suitable for CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF WROUGHT AND CAST IRON



For Building IRON AND WIRE RAILING,

IRON CRESTINGS, IRON STABLE FIXTURES.

GARDEN STATUARY,

WEATHER VANES,

AND BUILDERS' HARDWARE.

Estimates given on all kinds o Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY, 118 MILE STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

an De shown iterating intent research way years.
It emits no poisonous gas like other paints white drying.
It essurface is a perfect enamel, from which any specks of lirt may easily be removed.
It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbour



JENNINGS' SPECIALTIES

PLUMBERS' SUPPLIES

JENNINGS: PATENT SIX- JOHNINGS PATENT WATER CLOSETS, ENNINGS: PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR, Designer and Importer of PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoration, and Bathroom Linings. Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Me Manufacturer of Fine Furniture, and Importer of vare Etchings and Engravings.

No. 170 Tremont St., Boston.

ne Furniture, and Importer of rare No. 170 Tremont St., Boston. All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work "For the Trade."

A RT FOLIAGE. By J. K. COLLING. 1 vol.

*** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTOR



ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late WESTON & KAND, 17 Pemberton Sq. Boston.)
ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
NOS. 488 & 490 HARRISON AVENUE, BO

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufactor.

The Halls, Stair Builder, and Manufactor.

Concord and Manufactor.

ON THE NILE. Oblong folio. \$10.00.

"The sketches depict more fully and vividly than many pages of narrative could do, the scenery of the sacred river of Exypt, the customs and costumes of the strange people who live along its banks, the mishty works of man with which it is associated, and the adductive of the pages hold several sketches. There are striking portraits of typical folk, bits of character, tracery, pictureque groups, and amusing situations." — Baston Congregationalist.

JAMES R. OSGOOD & CO., BOSTON.

Franklin Press: Rand, Avery, & Co., Baston.





Vol. I. No. 33.1

BOSTON, SATURDAY, AUGUST 12, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

Studio Buildings, Boston.
 141 Centre Street, A27 Walnut Street Philadelphia.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS. 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor." Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless weven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circuirs.—
ROBERT GEMS, Treas.—Salesroom, 359 Washington St.,
BOSFON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE.

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBER.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings.
THE BEST IN USE.
S. W. FULLER,
63 Devonshire Street, Boston.

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, fur-nished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).

ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &o., No. 266 West 14th 8t., New York.

BUY A SPRINGFIELD GAS MACHINE, St. ANDREW G. PAUL, Agent. Buildings pipe ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Bos on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

GALVANIZED IRON CORNICES,
Campbell's Patent Chimney Jacks, Window Caps, &c.
6MITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest coments known. Is largely used in this manufacture. The blocks do not the fire the cold, or sound, and weigh sixty per cent less

of partitions, floor arches between iron beams, der wooden or Iron beams, in the following

wildings: would of iron deams, in the following Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Wilmeb js Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baltimore Safe Deposit, Insurance on Wooden Manards reduced ninety cents per 5100. Sidewalks laid at Lenox Library, Tribune, Peabody Museum. Side. Sidewalks laid at Lenox Library, Tribune, e&c. Hollow Bricks of all kinds. Our Fire-Frontwork is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK, ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING. HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Office 24 Light St.

JOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boller and Fire-Box Piates, Piate, Sheet, Pig, and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron.Boller and Tank Rivets, Lap-Welded Iron Boiler Tubes Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

ne only safe and reliable machine made for Passen Public Buildings and Hotels, and for business purp archouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS. Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of The UNION
IRON MILLS' Solid WOUGHT IRON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 73,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &C. BESJ. NOVES, Agend.

S. A. STETSON & CO., 173 Tremont St. Boston, GAS FITTERS. GILT, BRONZE, AN GLASS CHANDELIERS. Gas Pipe, and Fitting in ali Branches. Architects, Contractors, and Builders furnishe with the lowest estimates.

Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

POTTIER & STYMUS

MANUFACTURING COMPANY.

INTERIOR WOODWORK. DOORS AND TRIMMINGS, FITTINGS OF OFFICES

DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st AND 42D STREETS, NEW YORK.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION.

FOR CHURCHES, BANKS, PUBLIC AND PRIVATE BUILDINGS.

ALSO GAS FIXTURES.

WARREOOMS, No. 597 BROADWAY, NEW YORK.

ELECTRIC ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TLEEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given of wire is cut or tampered with or entrace made. Sure thing WM. A. BARNES, 99 WATER STREET, BRIDGEPORT, CONN.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 647 Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON. L. HABERSTROH, (Established 18
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOST

BOSTON. WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

GAPE ANN GRANITE COMPANY
GRANITE BUILDING ON THE PLACE OF A PAYING BLOCKS,
SIMMONS BUILDING OF WATER ST. HOSTON.
JONAS R. FEEKCH, FURN, GLOUGESTER, MASS.
JONAS R. FEEKCH, FURN, GLOUGESTER, MASS.
SCOTT WEBBER, Supt.

A RCHITECTURAL ORNAMENTS (Sheet Metal), New Catalogue free to all Architects, Send business card.

THE KITTREDGE CURNICE AND ORNAMENT CO.,
Salom Obio

BEEHIVE BRAND FELT ROOFING for

BELLIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, IT Central Street, Boston.

M. W. PEIRCE & CO., STEAM, GAS, AND KEROSENE FIXTURES, 117 AND 119 COURT STREET, BOSTON.

Lowest Estimates for furnishing Private and Public Bulklings and Churches.

TECHNOLOGY BUILDING CO., CASE AND FACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CACEBRAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or fron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOTT will be pleased to walt upon Architects, when deared, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

PROPOSALS FOR THE STONE CARV-ING REQUIRED FOR THE SUPERSTRUCTURE OF THE UNITED STATES COURT-HOUSE AND POST-OFFICE AT EVANSVILLE, IND.

POST-OFFICE AT EVANSVILLE, IND.

[ADVERTISEMENT.]

OPFICE OF SUPERVISING ARCHITECT.

W. SHIROTO, D.C., August 3, 1878.
Sealed proposals will be a supervision of the twenty-third day of August, 1878, for all the carving required on the stonework of the superstructure of the United States Court-House and Post-Office at Evansville Ind., in accordance with models and drawings of same.

The whole of the carving to be executed in the most artistic manner.

The whole of the carving to be executed in the most artistic manner.

The contractor to provide all necessary tools, chisels, &c.; but the Government will perform the blacksmithing required in sharpening said chisels.

All bed, face, and moulded work on the stones to be carved, will be executed by the Government.

For those portions of the carving which will have to be executed when the stones are built in the wall, the Government will provide and erect the necessary scanfolding therefor; but, for the carving to be executed on the ground, the contractor will be required to supply and provide the necessary sheds.

Drawings and models of the carving can be seen on appliance of the carving can be seen on appliance.

ment will provide and erect the necessary scanoning according to the carving to be executed on the ground, the foot will be required to supply and provide the necessary sheds.

Drawings and models of the carving can be seen on application at this office.

Proposals must be made for the whole of the carving complete.

The carving must be executed as required by the Superintendent, and the progress of the building.

Payments will be made monthly, deducting ten per cent until the final completion of the work.

Bids will only be received from parties who are themselve spractical carvers.

Bids will only be received from parties who are themselve spractical carvers.

By the superior of the work.

Bids will only be received from parties who are themselve spractical carvers are supplied to the superior of the

It is deemed for the interest.

Proposals will be enclosed in sealed envelopes, indoned.

Proposals for the stone carving required on the super-structure of the United States Court-House and Post-Office at Evansville, Ind., and addressed to the Supervising H. G. JACOBS, Acting Supervising Architect.

PROPOSALS.

PROPOSALS FOR GRAY GRANITE, BRICKS, LIME, AND SAND.
OFFICE OF SUPERVISING ARCHITECT,
TERRALET DEFAREMENT,
WASHINGTON, D.C., July 25, 1876.
Sealed proposals will be received at this office until 12, M., of the fifteenth day of August, 1876, for furnishing and delivering at the site of the United States Court-House and Post-Office, at Atlanta, Ga., all the gray granite required for the uperstructure, &c., of that building, cut ready for setting, in accordance with plans, specification, and schedule; also for forty-dive thousand (45,000), more or less, hard burned pressed bricks for facings, and four hundred and twenty-cight thousand (48,000), more or less, hard burned common red bricks, sound and free from limestone, of the best quality, taken, in each case, from the heart of the kiln and eight building (400) burned, of the best quality and twenty-manufacture (400) cubic yards, more or less, of clean sharp river sand.
Delivery of the bricks, lime, and sand to be in such quantities as required by the superintendent, and the progress of the work.

Bids for the granite, bricks, lime, and sand should be

Delivery of the superintendent, and the progress of the work.

Bids for the granite, bricks, lime, and sand should be made on the printed form, to be obtained on application at this office, or at the office of the superintendent.

Bidders will submit with their proposal a sample of such beautiful the submit with their proposal a sample of such beautiful their proposal as many poly.

Copies of the drawings, specification, schedule, and form of proposal for the granite work, and any additional information, may be had on application at this office, or at the office of the superintendent at the building.

The Department reserves the right to reject any or all bids, if it be deemed in the interest of the Government to do so. Proposals must be enclosed in scaled envelopes, indorsed, "Proposals must be enclosed in scaled envelopes, indorsed, "Proposals for gray granite, bricks, lime, or sand (as the case may be), for the United States Court-House and Post-Office et Atlanta, Ga.," and addressed to WILLIAM A. POTTER, Supervising Architect.

DROPOSALS FOR WROUGHT AND

PROPOSALS FOR WROUGHT AND CUSTOM-HOUSE AND POST-OFFICE, AT ST. LOUIS, MO.

MO.
OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT, WASHINGTON, D.C.,
July 31, 1876.
Sealed proposals will be received at this office antil 12, M.,
of the 21st day of Aaguat, 1876, for furnishing, delivering,
fitting, and putting in place, the wrought and cast iron
work, comprising rolled beams, &c., in third and fourth
as the control of the control of the control of the control
work and cast from plasters, &c. in second and
birt store and cast from plasters, &c. in second and
birt store and cast from plasters, &c. in second and
in the apecification, and called for in the schedule.
Copies of the drawings, specification, schedule, form of
proposal, and any additional information, may be had on
application at this office, or to the Superintendent of the
building, Mr. Thomas Walsh.
W. A. POTTER. Supervising Architect.

DROPOSALS FOR WROUGHT AND CAST

W. A. POTTER, Supervising Architect.

PROPOSALS FOR WROUGHT AND CAST
IRON WORK FOR THE UNITED STATES COURTHOUSE AND POST-OFFICE AT COVINGTON, KY.

OFFICE OF SUPERVISING ARCHITECT,

WASHINGTON, D.C., July 26, 1876.

Sealed proposals will be received at this office until 12, M.,
of the sixteenth day of August, 1876, for furnishing, delivering,
fittine, and putting in place the wrought and cast iron work,
comprising rolled-iron beams, &c., in first and second floors,
and cast iron columns, pliasters, &c., of first story; all as
exhibited on the drawings, described in the specification,
and called for in the schedule.

Copies of the drawings, apecification, form of proposal,
and any additional information, may be had on application
at this office, or to the Superintendent of the building, Mr.
M. P. Smith.

WM. A. POTTER, Supervising Architect



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-down

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be th

BEST IN QUALITY AND FINISH.

AGENTS FOR THE TUTTLE & BAILET REGISTER. Send for Catalogue and Prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS.

440 TREMONT STREET, BOSTON, MASS.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston

PROTECT YOUR HOUSES

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

No SMELL can arise from the drain-jupe, it being perfectly trapped at the very outlet of the basin.

It can be introduced at the cost of the ordinary Wash Bowl.
For descriptive circulars, address

L. S. MOORE & CO.,

40 Oliver Street, Boston.

YALE LOCKS, "STANDARD" LOCKS,

Ornamental Real Bronze Hardware. THE YALE LOCK MANUFACTURING COMPANY,

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

No. 53 Chambers Street, New York.





PAROUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

Send Three-Cent Stamp for Des Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York,
Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon, jun.



PARLOR GRATES

H. M. CREAMER. 86 North Street, Boston.
Send for Price List. If parties are living within five hundred miles of Boston, it will paytocail and examine.

TO INVENTORS AND MANUFACTURERS



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement,

WALDO BROTHERS,

No. 94 Water Street, Boston.

MONS. C. J. SOYARD, formerly 12 West Manyels, designer and maker of FURNITURE, WOOD MANYELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, BEAR TREMONT. BOSTON.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By Lienards of 120 designs, rich in hints to Architects and Decorators. 1 vol. folio, boards. \$21.60. Half moroeco, cloth sides. \$30.60.

JAMES R. OSGOOD & CO., Boston.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

our own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET

J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively. Polished Brass and Sterling Silver. Illustrated Catalogues Post Free,

Wood Work | Metal & Stone Work | Banners & Decorations 10 cts.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street, BOSTON.

WANTED. — By an Established Civil Engineer in a large and growing city of Pennsylvania who is too much engaged by other business to attend properly, a graduated architect as partner, with from \$500 to \$800 ca; ital. Address "Engineer," care "American Architect and Building News," Boston.

A PRACTICAL DRAUGHTSMAN of four A years' experience in one of the best offices in New England desires a permanent situation with some architect who is in need of a young man that will look out for the interests of his employer. Experience with nearly every class of buildings. Good Experience furnished. Address. No. 349 Main St., Worcester, Mass.

MASS, INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

ACRES OF THE SCHOOL OF THE SC

esign. Special students in Architecture are received into a two-Special students in Architecture, cears' special course.
For particulars address William R. Ware, Esq., Prossessor of Architecture, or Dr. Samuel Kreeland, Secretary, Boston, Feb. 1, 1876.

ULINTING

S. P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents. MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

Boston.—Farsons & Torry, 638 Washingon st. Pitkin Brog. 3 Charlestown st. Allen & Noble, 94 Hanver st. Sogman & Vinal, Dock sg. Farless & Boynton, 13 Cornhill; Gardner & Chandler, 221 Washington st. B. L. Solomon & Sons, 49 Fanklin street.
Providence, R. I. — Belcher Bros, 27 Weybosset st. New York City. — A. Hammancher & Co., 299 Bowery, L. J. Tillotton & O., 8 Dey st. O. A. Nathusius, 229 Bowery, B. L. Solomon & Sons, 689 Broadway, E. R. Krumm, 121 Easex street, L. Solomon & Sons, 689 Broadway, E. R. Krumm, 121 Easex street, W. F. Brooklyn, (E. D.) N. Y. — Hermann Weber, 124 Graham av. Albany. — Maurice E. Viele, 41 State st. Brooklyn, (E. D.) N. Y. — Hermann Weber, 124 Graham av. Albany. — Maurice E. Viele, 41 State st. Brooklyn, (E. D.) N. Y. — Hermann Weber, 124 Graham av. Albany. — Maurice E. Viele, 41 State st. Brooklyn, (E. D.) N. Y. — Hermann Weber, 124 Graham av. Albany. — Maurice E. Viele, 41 State st. Brooklyn, (E. D.) N. Solomon & Sons, 81 N. 26 st; F. L. Middleton, 817 N. 26 st; B. L. Solomon & Sons, 31 N. 26 st; F. A. Buren, 436 E. Dauphin st. Thomas Knight & Co., 627 St. 26 st; B. L. Middleton, 817 N. 26 st; B. L. Solomon & Sons, 31 N. 26 st; F. A. Buren, 436 E. Dauphin st. Thomas Knight & Co., 627 St. 41 st. B. Middleton, 817 N. 26 st; B. J. Solomon & Sons, 31 N. 26 st; F. A. Buren, 436 E. Dauphin st. Thomas Knight & Co., 627 St. 41 st. B. M. Middleton, 817 N. 48 st. Solomon & Sons, 31 N. 26 st; F. A. Buren, 436 E. Nauphin st. Thomas Knight & Co., 627 St. 41 st. B. M. Nauph & Sons, 31 N. 26 st; F. A. Buren, 436 E. Nauphin st. Thomas Knight & Co., 627 St. 42 st. B. L. Solomon & Sons, 410 Main st; J. L. Navne & Son, 124 Main st. Quebece. — S. J. Shaw & Co., 78 John st. Hermalization. — F. P. May & Co., 44 Pennsylvania avenue. San Francisco. — B. L. Solomon & Sons, 410 Market street. Montreal. — James Walker & Co., 16 St. James and terms as of us.

WILLIAM B. GLEASON & CO., West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



ROETH & MAY.

FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston,

PERRY & WATSON.





CATALOGUE OF Architectural Books

Mailed free to any address. Il architectural and Scientific Bo

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

ROLLING SHUTTERS.



STEEL AND WOOD,

Stores, Dwellings, &c.

The New Venetian Rolling-Blind. Rolling Venetian Shutters. in Patented Feb. 15, 1876. White Pine...... These prices include the necessary apparatus for working the Shutters, and delivery to

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 172, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1833.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, THUYA, WHITE HOLLY, MAHOGANY. ROSEWOOD, etc.,

> In Logs. Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.





JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS: PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, ENRINGS: PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT. 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings. No. 170 Tremont St., Boston.

Boston Ornamental Iron Works

For Building

IRON AND WIRE RAILING,

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds o Iron Work.

Send Stamp for Catalogue

BUBIER & COMPANY, 118 MILE STREET, BOSTON



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

OFFICE AND STORE 145 MILK STREET, BOSTON.

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, (Late Weston & RAND.)
ARCHITECT.
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

IRON CRESTINGS. CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

VASES, DANIEL APPLETON, AND H. M. STE-

S. IPSEN, Architect, 29 Pemberton Square, Boston.

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
NOS. 488 & 490 HARRISON AVENUE, BO

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord, N. II. Offices, by Canal Street, Boston, and Concord and Manchester, N.II. Churches and Public Buildings a specialty. Estimates given.

H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverhill St., BosPosts, Rails, Balusters, & Office Rails, furnished to order.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A and E. Varix. Reproduced by the Heliotype Process.
I vol. quarto. Boards \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., BOSTON.

HOMES AND HOW TO MAKE THEM.

By E. C. Gardner. Hustrated. 1 vol. square limo.

\$2.00. JAMES R. OSGOOD & CO., BOSTON.

Franklin Press: Rand, Avery, & Co., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work "For the Trade."

GOTHIC FORMS. By B. J. TALBERT. 1 vol.







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART

Vol. I. No. 34.7

BOSTON, SATURDAY, AUGUST 19, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, Roston. | New York. | Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE

Incased in a wro PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor." Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Trees.—Silesroom, 339 Washington St.,
BOS FON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in

QUARTYMAN, AND WHOICESIE DESIGN IN
BUILDING STONE,
DRIO STONE, FROM BERLIN, AMHERST, AND BEERA QUARRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.

8. W. FULLER,
63 Devonshire Street, Boston

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quantiles, by GEO. BARNEY, Swanton, Vt. Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).
FOR HOUSES, STEAMBOATS, RAILFOAD CARS,
OFFICES, &c., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, St. ANDREW G. PAUL, Agent. Buildings piped and fit ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MARUPACTURES of those goods in New England. No. 11 Marshall Street, Bos on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure sir, wituout dust or cold draughte, and acapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 126 Trement Street Boston.

GALVANIZED IRON CORNICES, Campbell'a Pateit Chimney Jacks, Window Caps, &c. SMITH & VAN NOOLDEN, 357 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting atrength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less

e-proof partitions, floor arches between iron beams, igs under wooden or iron beams, in the following

winings under wooden or iron beams, in the following buildings:

Western Union Telegraph,
Del, and Hudson Canal Co.,
Equitable Life Assurance,
Wil'msb'el Savings Bank,
Westminater Hotel,
Syracuse Savings Bank,
Columbia College,
Insurance on Wooden Mansard's r. duced ninety centis per
low Bricks of silk kinds. Our Fire-Froof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWIPH Devices.

LEONARD F. BECKWITH, President

Bartlett, robbins, & co.,

ARCHITECTURAL IRON WORK, ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Works, cor. Pratt and Se BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY.

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron.Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS" PATENT" COMBI-NATION BOPE ELEVATOR,

only safe and reliable machine made for Passenger use ablic Buildings and Hotels, and for business purposes in shouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACESON STREET,

ORANGE, N.J.

S. A. STETSON & CO., 173 Tremont St.,
D. Boston, GAS FITTERS, GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders farmished
with the lowest estimates.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

POTTIER & STYMUS

MANUFACTURING COMPANY.

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st AND 42b STREETS, NEW YORK.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION, FOR CHURCHES, BANKS, PUBLIC AND PRIVATE BUILDINGS.

ALSO GAS FIXTURES
WARREGOMS, No. 597 BROADWAY, NE

NEW YORK.

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or cuttume made. Sure thing, w.M. A. BARNES, 99 WATER STEER, BRIDGEFORT, CORN.

G AS FIXTURES
OF EVERY DESCRIPTION.
SER. HOLLINGS & CO., 547 WASHington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PRMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHUECHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRENCY PAINTER,
NO. 12 SCHOOL STREET, BOSTOH.
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTOM.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
ROOF MILLS' Solid WROUGHT IRON BEAMA, and THE
"BURDER BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE. CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND YENTILATING APPARATUS. Gas Lighting Apparatus, Wrought from Pipes and Fittings. No. @ Kiby St., Boston

CAPE ANN GRANITE COMPANY

GRANITE BUILDING, Furnish—ONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 6W WATER ST., BOSTON.
Quarries: BAT VIEW, GLOUDESTER, MASS.
JORAS B. FRESCH, Fres. SCOTT WEBBER, SQL.

A RCHITECTURAL ORNAMENTS (Sheet

business card.

THE KITTREDGE CORNICE AND ORNAMENT CO.,
Salam Obic

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
M. STEAM, GAS, AND KEROSENE FIXTURES,
17 AND 119 COURT STREET,
180STON.
Lowest Estimates for furnishing Private and Public Build-

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction.

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in parts of the country. Over 6000 pairs put up in Bos after the fire. Saved the city of Springfield last year.

FIRE-PROF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when esired, to explain our methods, and to present for inspec-ion construction plans and estimates for any specific work.

PROPOSALS.

BRIDGE. — Sealed proposals will be received at the Auditor's office in Washington C. H., Fayette County, O., until one o'clock, P. M., of Aug. 22, A.D., 1876, for the superstructure of the following bridges: — Bridge No. I. — Over Paint Creek, at Washington, on the Elm-st. Road, one hundred feet clear span; eighteen feet roadway.

Elment house the mainter the readway.

Bridge No. 2. — Over Paint Creek, about nine miles south
of Washington, at the Ghormley Ford, in two spans of ninety
feet each, from face of abutments to centre of pier, and sixteen feet roadway.

Bridge No. 2. — Over Rattlesnake, about eight miles southwest of Washington, near the residence of Robert Worthington, one hundred and ten feet clear span; sixteen feet roadway.

Strings No. 4.—Over Compton's Creek, on the Columbus Bridge No. 4.—Over Compton's Creek, on the Columbus Pike, about seven miles north-east of Washington, fifty-one and five-tenths feet clear span; sixteen feet readway. Bridges will be required to bave acapacity of one hundred pounds per square foot for the roadways, with a factor of our (4), exclusive of bridge-weight. All parts of said bridges shall be constructed on some well-tested plan. Bidders must furnish strain-sheets, full plans, and spec'fications, giving form and dimensions of each part of bridge and the cross-ection of each priacipal part in square inches. Contractors will be required to enter into bond for the faithful performance of contracts.

The right to reject any or all bids is reserved.

By order of the County Commissioners.

J. P. ROBINSON, Anditor,
July 24, 1876.

A LMSHOUSE. - Proposals will be received A LMSHOUSE. — Proposals will be received at the office of the County Clerk of Knox County, until 10, Am., of Monday, Aug. 21, 1876, for building the east wing of the Knox County Almshouse, according to plans and specifications now on file in the County Clerk's office, where they may be seen, and for heating and ventilating the building. Proposals will be received for the building and heating separately, or for all work combined. The Board of Supervisors will open all bids on said tweaty-first day of August; but reserves the right to select from or reject any or all bids. By order of the Board of Supervisors.

JOHN S. WINTER, County Clerk.

PROPOSALS

PROPOSALS FOR THE STONE CARV-ING REQUIRED FOR THE SUPERNTRUCTURE OF THE UNITED STATES COURT-HOUSE AND POST-OFFICE AT EVANSVILLE, IND.

POST-OFFICE AT EVANSVILLE, IND.

[ADVERTISEMENT.]

OFFICE OF SUPERVISING ARCHITECT,

WASHINGTON, D.C., August \$, 1876.

Scaled proposals will be received at this office until 12, st.,
of the twenty-third day or received at this office until 12, st.,
of the twenty-third day or the supersult of the carrier of the stonework of the supersult of the

The whole of the carving to be executed in the most artistic manner.

The contractor to provide all necessary tools, chisels, &c.; but the Government will perform the blacksmithing required in sharpening said chisels.

All bed, face, and moulded work on the stones to be carved, will be executed by the Government.

For those portions of the carving which will have to be executed when the stones are built in the wall, the Government will provide and ertc the necessary scaffolding therefor; but, for the carving to be executed on the ground, the contractor will be required to supply and provide the necessary sheds.

Drawings and models of the carving can be seen on appliance.

ment will provide and erect the necessary stationary sensitive for; but, for the carving to be executed on the ground, the contractor will be required to supply and provide the necessary sheds.

Drawings and models of the carving can be seen on application at this office.

Froposals must be made for the whole of the carving can be seen on application at this office.

The carving must be executed as required by the Superintendent, and the progress of the building.

Payments will be made monthly, deducting ten per cent until the final completion of the work.

Bids will only be received from parties who are themselvs practical carvers.

All bids should be made on the printed form to be obtained on application at this office, and must be accompanied by a penal bond of two responsible persons in the sum of two thousand five hundred dollars (\$2,500), that the bidder will accept and perform the contract if awarded him, or, in case the United States shall so desire, will execute a contract in proposal, and give such additional security for the faithful performance thereof as shall be satisfactory to the United States Court, or the District Attorney of the district in which the bidder resides.

The right to reject any or all bids, or to waive defects, if it is deemed for the interests of the Government to do so, is reserved.

Proposals will be enclosed in sealed envelopes, indorsed, Proposals for the stone carving required on the superstructure of the interests of the Government to do so, is reserved.

Proposals for the stone carving required on the superstructure of the stone carving required on the superstructure of the states Court-Itones and Tost-Office at Evansville, Ind., and addressed to the Supervising Architect.

PROPOSALS FOR WROUGHT AND

PROPOSALS FOR WROUGHT AND CAST IRON WORK FOR THE UNITED STATES CUSTOM-HOUSE AND POST-OFFICE, AT ST. LOUIS, MO.
OFFICE OF SUPERVISING AECHITECT,
TREASURT DEPARTMENT, WASHINGTON, D.C.,
July 31, 1876.
Sealed proposals will be received at this office until 12, м.,
of the 21st day of August, 1876, for furnishing, delivering, fitting, and putting in place, the wrought and cast iron work, comprising rolled beams, &c., in third and fourth story floors, and cast iron pliasters, &c., in second and third stories, all as exhibited on the drawings, described in the specification, and called for in the schedule, Copies of the drawings, specification, so heddie, form of proposal, and any additional information, may be had our application at this office, or to the Superintendent of the building, Mr. Thomas Walsh.

W. A. POTTER, Supervising Architect.

W. A. POTTER, Supervising Architect.

STREET IMPROVEMENT.— Sealed proposals will be received at the office of the Board of Improvements until 12, M. Aug. 23, 1876, for grading, drahinis, curbing, improving, and building the necessary culverts, sewers, gutters, and drains, in Woodland Hills ave, between Kinsman and Miles streets. Build will be received for labor and materials separates to the state of the received for labor and the real separates of the received for labor and the real separates of the received for labor and the real separates of the received for labor and the receiv



TOSCHI'S ENGRAVINGS. From Freecos
by Correggio and Parmegiano. Reproduced by the
Heliotype Process from the "Gray Collection of Engrav-Harvard University.

ngs," Harvard University.

This volume contains twenty-four Plates, including Parnegiano's Saint Agatha, Saint Lucia, and Saint Apollonia,

two Deacons, and Saint George. Of Correggio's Frescos, it
notudes the Madonna della Scala, Diana in a Chariot, The

Coronation of the Virgin, groups of Cheruba and Angels. Two Dea A rare and valuable collection. Quarto. Price, \$10.00.

JAMES B. OSGOOD & CO., BOSTON.

RAPHAEL PICTURES. A Series of day a studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France.

This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," The Holy Family" (two groups), "The Madomas of the Pish," and "The Bearing of the Cross." Quarto. Frice, \$10.0.

JAMES R. OSGOOD & CO., Bostoo.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of ateam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Biler, not however by any sacrifice in quality of material employed, or workmanshin, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been in practical operation in buildings and private residences the past whiter; and its working has been eminently actisfactory in every respect. We issue a Tampblet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-down

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the

BEST IN QUALITY AND FINISH.

AGENTS FOR THE TUTTLE & BAILEY REGISTER.

nd for Catalogue and Prices.

MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston.



PROTECT

YOUR HOUSES AGAINST

Damage by Water, BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of the usands of dollars.

No swell can arise from the drain-pipe, it being perfectly trapped at the very outlet of the basin. It can be introduced at the cost of the ordinary Wash Bowl.

owi. For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.



PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING.

950 Broadway, New York Send Three-Cent Stamp for Des Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York,
Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.



EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and STAINED GLASS WORKS, Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

(New No. 364.) 180 Washington St.,

BOSTON.

E. Hixon

Fred. Reed.

E. Hixon, jun.



PARLOR GRATES For Health and Comfort. Made low or half low down with the celebrated dump with the celebrated dumping attachment. Can be sed for hard or soft coal or wood. The finest assortagent in New Eugland.

H. M. CREAMER. 86 North Street, Boston

Send for Price List. parties are living within fiv hundred miles of Boston, will pay to call and examin

TO INVENTORS AND MANUFACTURERS



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS.

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile. American, Roman, and Portland Cement,

WALDO BROTHERS,

MONS, C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MEAR TREMONT, BOSTON.

EXAMPLES OF MODERN ARCHITEC-I. From designs by Scott. Street, Colling, I vol. quarto. 64 plates. \$15.00. ng designs for Churches, Cathedrals, Colleges, way Stations, Museums, Model Dwellings, Baths, Mames E. 08GOOD & CO., Bostos.



J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively. Polished Brass and Sterling Silver.

Hilustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decoration 10 cts. 10 cts.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

SALESBOOM.

No. 53 Chambers Street, New York.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

440 TREMONT STREET, BOSTON, MASS.

E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS.

1131 TREMONT ST., Boston.

WANTED. — By an Established Civil Engineer in a large and growing city of Pennsylvania who is too much engaged by other business to attend prop erly, a graduated architect as partner, with from \$500 to \$800 capital. Address "Engineer," care "American Architect and Building News," Boston.

MASS. INSTITUTE OF TECHNOLOGY. A This school offers a four-years' scientific and profes-onal training for Chemista, Metallurgists, Civil, Mechani-d, and Mining Engineers, Architects, Teachers of Science, at Manufacture, Architecture embraces, besides the ne-ture of the Architecture embraces, besides the ne-beary scientific and mathematical studies, the atudy of chitectural history, and the constant practice of original

esign.
Special students in Architecture are received into a twoears' special course.
For particulars aidress William R. Ware, Esq., Proessor of Architecture, or Dr. Samuel Kneeland, Secretary
Boston, Feb. J. 1878.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

NGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works. Including "The Challenge." "Chillingham Red Deer," The King. "The Farest," he Monarch of Landser's Children of the Children of the

LIENARD'S DECORATION AND ORNA-LI MENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By Liexard. Reproduced by the Heliotype Process. Upwards of 120 designs, rich in hints to Architects and Decorators. 1 vol. folio, boards, \$27.00. Half morocco, cloth sides, \$50.00.

JAMES R. 08000D & CO., Buston.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS

A G E N T S.

Boston.—Parsons & Torry, 656 Washingon at; Pitkin Bros.

3 Charlestown at; Allen & Noble, 39 Hanover at; Bogman & Vinal,
Dock ag; Farless & Boynton, 13 Cornhill; Gardner & Chandler,
32 Washington at; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. I.—Belcler Bros, 27 Weyboset at.

2 Washington & Co. 8 Dey st. O. A. Nathusius, 239 Bowery; B. L.

3 J. Hillotton & Co. 8 Dey st. O. A. Nathusius, 239 Bowery; B. L.

4 J. Hillotton & Co. 8 Dey st. O. A. Nathusius, 239 Bowery; B. L.

5 J. Hillotton & Co. 8 Dey st. O. A. Nathusius, 239 Bowery; B. L.

5 J. Hillotton & Co. 8 Dey st. O. A. Stock, 116 Wooster street;

1 Brook Byg, (E. D.) N. Y.—Herman Weber, 134 Graham sv.

A than y.—Maurice E. Vicle, 41 State st.

18 uffaile.—C. H. Uticy, 22 Pearl st.

18 uffaile.—C. H. Chile, 25 R. 26 at.; B. L. Middleton, 817

18 J. St. B. Solomon & Sons, 31 N. 24 st; F. A. Bueren, 435 E.

28 st; B. L. Solomon & Sons, 31 N. 24 st; F. A. Bueren, 435 E.

Albany. — Maurice E. Viere, it cases S.

Rochester. — Pollock, Weaver, & Co., if Buffalo st.

Buffalo .— C. H. Utley, %2 Pearl st.

Philadelphia. — Tiomas Thompson, Sons, & Co., 240 8. 24

1; Nobili, Brown, Nobili, & Co., 222 8. 20 st; B. L. Middleton, 817

1, 22 st; B. L. Solomon & Sons, 31 N. 24 st; F. A. Burcen, 452 E.

Jamphin st; Thomas Knight & Co., cor. Calexe, and Wood et Battimore. — C. Sidney Norris & Co., 35 Hanover st; Joha hore & Sons, '48 South Charles st; Warfeld & Bohr, & Son, Shay at.

Cleveland, D. — George Worthington & Co., 39 Water st; Wm. Bingham & Co., 148 Water st.

Clinchmanti. — Glaescher & Kuhlman, 534 Main st; J. L.

Vanne & Son, 124 Main st.

m. Bingham x Co. 148 Water st.

Clinechnath. - Glaescher & Kuhlman, 534 Main st; J. L.

Syne & Son, 124 Main st.

Chicago. - J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich

Detroit. - Buhl, Ducharue, x C., 103 Woodbridge street.

Co, 16 fifth ave; J. Lebelmenn a Co, 22 fülknoom d.

Betroit. — Buhl, Ducharme, 8. Co, 10 Woodbride street.

St. Louis. — Geo. A. Rubelmann & Co, 87 K. 66 i at.

Washington. — F. P. May & Co, 68 H Fennsylvania evenue.

San Francisco. — B. L. Solomon & Sons, 40 Market street.

Montreal. — James Walker & Co, 16 St. James C.

Quebec. — S. J. Slaw & Co, 7 St. John st.

Mamilton, Oht. — Watson & Thompson, 16 McNab st.

WILLIAM B. GLEASON & CO., West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

PERRY & WATSON, 56, 58, & 60 Park St., New York, METAL WORKERS.

Escutcheons, Locks, Hinges, Andiron

MADE TO ORDER.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Bo A. J. BICKNELL & CO..

ARCHITECTURAL BOOK PUBLISHERS,
27 WARREN STREET, NEW YORK.

ROLLING SHUTTERS.



STEEL AND WOOD.

Stores, Dwellings, &c.

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS

WHITE HOLLY. MAHOGANY. THUYA. ROSEWOOD, etc.,

> In Logs. Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, (Late WESTON & RAND, 17 Pemberton Sq. Boston,) Anchitect, 178 DEVONSHIRE ST., AND 23 FEDERAL ST., BOSTON.

CHARLES D. WOODBERRY, Architect, JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 489 & 490 HARRISON AVERUE, BOSTO

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord. N. H. Offices, 10 Canal Street, Boston, and Concord and Manchester, N. H. Churches and Public Buildings a specialty. Estimates given.

ic Buildings a specialty. Estimates given.

H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverhill St., Bos-Posts, Rails, Balusters, & Office Rails, furnished to order.

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country Houses in very Swiss amena. Drawn and engraved by A and E. Varit & Recoding by the Heliotype Process. I vol. quarto. Boards. \$12.06.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

JAMES R. OSGOOD & CO. BOSTON.

Franklin Press: Rand, Avery, & Co., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

SEWERGASSHUTOFF!



AGENTS WANTED.



and at London, Paris, Vienna, Berlin, Melbou

JENNINGS' SPECIALTIES

PLUMBERS' SUPPLIES

JENNINGS' PATENT SIX. Jennings' Patent Water Closets, Envings PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

W Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

No. 170 Tremont St., Boston,

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correggio, Cop-Reynolds, Greeze, Lawrence, Murilio, Gerard, Mael, and other celebrated painters, - forming and





These prices include the necessary apparatus for working the Shutters, and delivery to

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 172, 705, of

Manufacturers and Dealers in every variety of

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN,

Boston Ornamental Iron Works

For Building IRON AND WIRE RAILING. IRON CRESTINGS,

IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY, WEATHER VANES.

BUILDERS' HARDWARE.

Estimates given on all kinds of

Send Stamp for Catalogue BUBIER & COMPANY, 118 MILK STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

MENS OF TWENTY-FIVE YEARS' STANDING hown looking much fresher than any other pain.

OFFICE AND STORE 145 MILK STREET, BOSTON,





A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 35.7

BOSTON, SATURDAY, AUGUST 26, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Philadelphia.

TIN-LINED IRON

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb nhining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 32 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor." — fron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Tess.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BEOADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, PROM BERLIN, AMBERST, AND BEREA QUARRIES Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,
AND BURGLAR ALARMS,
For Public and Private Buildings. THE BEST IN USE.
S. W. FULLER,
63 Devonshire Street, Boston

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quanties, by GEO. BARNEY, Swanton, Vt. Send for Circular and Price List.

J. CARTISSER, (ESTABLISHED 1858).
POR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &Q., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. PAUL, Agent. Buildings piped and fit-ad up complete. Send for circuiar.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

CALVANIZED IRON CORNICES, Importers, Jobbers, and Retailers of EMPHYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. FAPER HANGINGS, SMITH & VAN NOORDEN, 837 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting atrength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

re-proof partitions, floor arches between iron beams, ngs under wooden or iron beams, in the following

West Milliary Hospital,
Syracuse Savings Bank,
Columbia College Bank

LEONARD F. BECKWITH, President Office, 111 Broadway, N.Y.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK ORNAMENTAL IBON WORK,
GALVANIZED IRON WORK
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Works, cor. Pratt and Scott Sts., Office 24 Light St.,
Baltimore, Mp.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in ogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig, d Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boller and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUPACTURERS OF "TUFTS' PATENT" COMBI-NATION BOPE ELEVATOR,

e only safe and reliable machine made for Passenger Public Buildings and Hotels, and for business purpose archouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

OTIS TUFFS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

P. O. Box 621.

ORANGE, N.J.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. GAS Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

POTTIER & STYMUS

MANUPACTURING COMPANY.

INTERIOR WOODWORK

OORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st AND 42D STREETS, NEW YORK.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.

WAREROOMS, No. 597 BROADWAY, NEW YORK

LECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BRIDGEFORT, CONS.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 6ff Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER.

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND FUBLIC BUILDINGS.
No. 136 HARRISON AVENUE, BOSTON.

L HABBERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTOM.
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTOM.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

FULLER, DANA, & FITZ, TO THE THE STREET, BORTON.

METAL MERCHANTS, Importers of BOOFING PLATES
AND IRON, USED IN BULLDINGS.

Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON BRAMA, and THE
"BURDER BRET" IRON, Tessile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPANY, 34 HAWLET STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. SOYES, Agent,

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY GRANITE BUILDING, AD WATER ST., BOYLES BUILDING, AD WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOCCESTER, MASC.
JORAS H. FRENCE, Fres.
SCOTT WEBBER, SUP.

A RCHITECTURAL ORNAMENTS (Sheet Metal). New Catalogue free to all Architecta, Send onsiness card.
THE KITTREDGE CORNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches

Ings and Churches.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAT AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

PELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIEE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FiRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the firs. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Insurance Company's Bulliumes, and many insurance to pleased to wait upon Architects, earled, to explain our methods, and to present for its company construction plans and estimates for any specific

PROPOSALS.

CANADIAN PACIFIC RAILWAY.—
Sealed tenders addressed to the Secretary of Public Works, and indorsed "Tender Pacific Railway," will be received at this office up to noon of Wednesday, the 20th September next, for works required to be executed on that section of the Pacific Railway extending from Red River eastward to Eat Portage, Lake of the Woods, a distance of about 118 miles, viz., the track laying and ballasting only, of about 77 miles, and the construction, as track-laying and ballasting, of about 87 miles, between Cross Lake and Rat Portage. For plans, specifications, approximate quantities, forms of tender, and other information, apply to the office of the Engineer-in-Chief, Ottawa. No tender will be entertained unless on the printed form, and unless the conditions are compiled with. By Order F. Brauw, Secretary.

CMURCH.—The Building Committee of the Second Congregational Society of Griswold, Conn., hereby extend the time for receiving proposals for the crection of a brick church, to Aug. 28, at 7, PA. Parties wishing to make proposals will be furnished with the plans and specifications, in the order of their applications, for a specified time. Proposals for doing the whole work complete, by one party, or each kind separately, will be considered. The committee reserve the right to reject any proposal not considered for the interest of the society. JAMES O. SWEET, A. G. BERWSTER, D. A. LYON, A. A. YOUNG, Jewett City, Coun.

CITY INFIRMARY. — Sealed proposals will be received at the Infirmary Office, City Hall, Cleveland, O., until 12, M., Saturday, Sept. 6, 1878, for furnishing all labor and materials required for the erection and completion of two wings to the City Infirmary for the incurable insame, and for two hospital wards. Plans and specifications can be seen, and all necessary information obtained, at the office of A. Koehler, Architect, Room 14, second floor, City Hall Building, after Aug. 23, Each proposal must be accompanied with a bond for one thousand dollars for the acceptance of the contract, if awarded by the Board. No proposal will be entertained, unless made on the blanks which will be furnished by the sarchitect. The Board reserves the right to accept any, or reject all, proposals. By order of the Board, JACOB BUVIM, Clerk.

PROPOSALS.

STONE FOR ROCK ISLAND ARSENAL STONE FOR ROCK ISLAND ARSENAI.

Sealed propessis, to be opened at 16, a.m., Sept. 12, 1876, are invited to furnish about 8,600 cubic yards of Dimension, Ashlar, and Bubble 800e for one shop at this Arsenai. Parties desiring to bid can get full specifications by applying to the undersigned. The successful bidder will be required to enter into a contract to deliver the stone of the quality, in quantities, and at the times, specified, and to give good and sufficient bonds for the faithful performance of the contract. About 460 yards of the stone may be required this season. The purchase of the remainder will depend upon further appropriations for the work. Not more than two-thirds of all the stone would probably be required in any one year. Bidders must state the name of the quarry from which their stone will be taken; must be prepared to show that they have such control of the quarry as will enable them to furnish the stone, and the quarry must be sufficiently developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the required quantity and findically developed to show that the properties of the stone sh

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late WESTON & RAND, 17 Pemberton Sq. Boston.)
ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect, Office 19 Broad, corner Central Street, Boston.

JOS. E. BILLINGS, Architect, 83 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98



Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING, IRON CRESTINGS. IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY,

BUILDERS' HARDWARE.

Estimates given on all kinds or

Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILE STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Correggio and Parmediano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia.

Two Deacons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Chariot, The Coronation of the Virgin, groups of Cherubs and Angels.

A rare and valuable collection. Quarto. Price, \$10.00.

JAMES B. OSGOOD & CO., Boston.

PAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. Emsence-David, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTOX.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nineteenth Century. By LIENARD. Reproduced by the Heliotype Process. Upwards of 129 designs, rich in hints to Architecta and Decorators. 1 vol. folio, boards, \$27.00. Half morocco, cloth sides, \$30.00. JAMES R. OSGOOD & CO., BOSTON.

STEAM HEATING. LE BOSOUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Boller, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Fortable Boller, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boller at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been emissioned the past winter; and its working has been emissioned the past winter; and its working has been emissioned to be a supplication of the Boller, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-down

Dumping and Shaking Grates. WEATHER VANES, BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the

BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade. Send for Catalogue and Prices

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

YOUR HOUSES AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars. No SMELL can arise from the drain-pipe, it being perfectly trapped at the very outlet of the banin. It can be introduced at the cost of the ordinary Wash Bowl. For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.



PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

950 Broadway, New York. d Three-Cent Stamp for Designs Brushes for Waxing Floors.

National Fine Art Foundery.

218 East 25th Street, New York, Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects. Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.



EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon

Fred. Reed,

E. Hixon, jun.



PARLOR GRATES For Health and Comfort Made low or half low dow with the celebrated dum ing attachment. Can I used for hard or soft cor or wood. The finest assor ment in New England.

H. M. CREAMER,

86 North Street, Bosto Send for Price List. It parties are living within five hundred miles of Boston, it will paytocall and examine.

TO INVENTOR'S AND MANUFACTURERS

For



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement,

WALDO BROTHERS,

No. 94 Water Street, BOSTON

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 ° A " BEACON STREET, SEAR TREMONT, BOSTON.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scott. Street Colling. and others. I vol. quarto. 84 plates. \$15.00.

Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths, &c. JAMES R. OSGOOD & CO., BOSTON.



J. & R. LAMB.

59 Carmine St., New York

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpo exclusively. Polished Brass and Sterling Sliver. Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banner & Decoration of the Catalogues of the Catalogues Post Free of the Catalogues of the Catal



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.

YALE LOCKS,

"STANDARD" LOCKS.

Ornamental Real Bronze Hardware. THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

No. 53 Chambers Street, New York.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN. Reproduced by the Heliotype Process.
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., Boston.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

A G E N T S.

Boston.—Parsonn a Torry, 636 Washingon at; Pitkin Bros.

Boston.—State of the Archive, 1985 Washingon at; Pitkin Bros.

Both of the Archive at the Archive, 1985 Washingon at; Pitkin Bros.

Down and Sons, 63 Broston at Sons, 46 Franklin street.

Providence, R. I. — Belcher Bros, 27 Weybosset at.

New York Oity, — A. Hammancher & Co., 99 Bowery; L. J. Tillotton & Co., 8 bey at; O. A. Nathusius, 239 Bowery; B. L. Solomon & Sons, 69 Broadway; E. R. Krumm, 12 Essex street; L. J. Tillotton & Co., 80 Bey at; O. A. Nathusius, 239 Bowery; B. L. Solomon & Sons, 69 Broadway; E. R. Krumm, 12 Essex street; M. R. Brookiyan, (E. D.) N. Y. — Hernann Weber, 134 Grahamav.

Albany. — Maurice E. Vicle, 41 State at.

Bochester. — Pollock, Weaver, & Co., 17 Buffalo at.

Buffalo. — C. H. Utley, 82 Pearl at.

Philadelphia. — Thomas Thompson, Sons, & Co., 360, 364

Ruffalo. — C. H. Utley, 82 Pearl at.

Philadelphia. — Thomas Thompson, Sons, & Co., 360, 364

N. 2d at; B. L. Solomon & Sons, 31 N. 2d at; F. A. Bueren, 385 E. Dauphin at; Thomas Knight & Co., cor. Edige ave, and Wood at.

Baltimore. — C. Sidney Norris & Co., 36 Hanover at; John Duer & Sons, 34 South Charles at; Warfield & Bohr, 62 So. Sharp at.

Claveland, 6. — George Worthington & Co., 90 Water at; Claveland, 6. — George Worthington & Co., 90 Water at; Claveland, 6. — George Worthington & Co., 90 Water at; Claveland, 6. — George Worthington & Co., 90 Water at; Claveland, 6. — George Worthington & Co., 90 Water at; Claveland, 6. — George Worthington & Co., 90 Water at; Claveland, 6. — George Worthington & Co., 90 Water at; Co., 18 Hain for a Co., 18 Main at; J. L. Wayne & Son, 74 Randolph at; A. A. Ullrich & Co., 18 Main at; J. L. Butroit. — Buhl, Ducharme, a Co., 18 Woodbridge street.

St. Louis. — Geo. A. Rubelmann & Co., 18 Woodbridge street.

St. Louis. — Geo. A. Rubelmann & Co., 18 Woodbridge street.

St. Louis. — Geo. A. Rubelmann & Co., 18 Woodbridge street.

St. Louis. — Geo. A. Rubelmann & Co., 18 Woodbridge street.

St. Louis. — Geo. A. Rubelmann & C

Our goods can be purchased of the above Agents at the rices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY, FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices,

A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS.

27 WARREN STREET, NEW YORK.

ON THE NILE. Oblong folio. \$10.00. ON THE NILE. Oblong folio. \$10.00.

Large paper edition, in portfolio. \$25.00.

"The sketches depict more fully and vividly than many pages of narrative could do, the scenery of the sacred river of Egypt, the customs and costumes of the strange people who live along its banks, the mighty works of man with which it is associated, and the adventures which befail a party of tourists along its course. Many of the pages hold several sketches. There are striking portraits of typical folk, bits of character, tracery, picturesque groups, and amusing situations. — Boston Congregationalist.

AMES E. OSGODD & CO., BOSTON

ROLLING SHUTTERS.



STEEL AND WOOD.

Stores, Dwellings, &c.

Rolling White Pine Shutters ... 50 The New Venetian Rolling-Blind. Rolling Venetian Shutters, in Hard Wood...
Patented Feb. 15, 1876.

These prices include the necessary apparatus for working the Shutters, and delivery to Depot in New York City.

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 172, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, WHITE HOLLY, MAHOGANY, THUYA. ROSEWOOD, etc.,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, FIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

and at London, Paris, Vienna, Berlin, Melbor



SEWERGASSHUTOFF!

JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, JENNINGS' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, atent Latrines, and other specialities (the peculiarity of all of which is the thorough ex-lusion of swerg gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT. 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR, Designer and Importer of
PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Mar Manufacturer of Fine Furniture, and Insporter of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit



It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord, N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N. H. Churches and
Public Buildings a specialty. Estimates given.

Invented 1850.

CIMENS OF TWENTY-FIVE YEARS' STANDING shown looking much fresher than any other paint of ars.

International transport of the state of the state

Pranklin Press: Rand, Avery, & Co., Boston.

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c. -AND-

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correogio, Corley, Reynolds, Gelevie, Lev, Reynolds, Munillo, Gerard, Raynaria, and other celebrated painters, —forming a series of charming pictures of children and child-life. Quarto. Price, \$10.06. JAMES R. OSGOOD & CO., BOSTON.







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 36.]

BOSTON, SATURDAY, SEPTEMBER 2, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street Boston. | New York. | 427 Walnut Street

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor."— Iros Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE. Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 239 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in

BUILDING STONE,
DHIO STONE, FROM BERLIN, AMHEEST, AND BEREA QUARRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACKSON STREET, P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS,

ORANGE, N.J.

SPEAKING TUBES, AND BURGLAR ALARMS,

For Public and Private Buildings. THE BEST IN COR. S. W. FULLER,

63 Devonabire Street, Bosto

MARBLE FLOORING TILE.

Whits, Black, Red, Lyonaise, and other varieties, far-nished in large or small quanties, by GEO, BARNEY, Swanton, Vt. Send for Circular and Price List.

S. A. STETSON & CO., 173 Tremont St., GLAS CHANDELIERS. GILT, BRONZE, AND GLASS CHANDELIERS. GSS Pipe, and Fitting in all its Branches. Architects, Contractors, and Bullers furnished

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 837 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF I NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, coid, or sound, and weigh sixty per cent iess than brick.

Fire-proof partitions. Scor. and weigh sixty per cent iess

orick. proof partitions, floor arches between iron beams, gs under wooden or iron beams, in the following

Western Union Telegraph,
Del. and Hudson Canal Co.,
Equitable Life Assurance,
Wil'meb'gh Savings Bank,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Baitimore Safe Deposit,
Insurance on Wooden Mansards reduced inlety cents per
Slöt. Sidewalks laid at Lenox Library, Trbune, &c. Hollow Bricks of ail kinds. Our Fire-Proof work is the only
one approved by the New York Board of Fire Underwriters,
and the Superintendent of Buildings, after severe public
tests.

LEONARD F. RECOMMENT

Office, 111 Broadway, N. Y.

MINTON'S TILES.

PLAIN AND ENCAUSTIC.

FOR PUBLIC BUILDINGS AND DWELLINGS, As laid by us in

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every Glazed and Enamelled Tiles for Mantels, Hearths, Wain scoting, &c., and for Exterior Decoration.

MILLER & COATES.

279 PEARL STREET, NEW YORK.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK, ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING. HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Works, cor. Pratt and BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in exenceus Boiler and Fire-Box Plates, Plats, Sheet, Pig, d Railroad Iron, Wrought Iron Girder, Channel, and Peck Beams, Angle and T Iron.Boiler and Tank Rivets, Lap-Welded Iron Boiler Tuber Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS" PATENT" COMBI-NATION BOPE ELEVATOR,

be only safe and reliable machine made for Passeager use Public Buildings and Hotels, and for business purposes in archouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York. OTIS TUPES,
President.

HENRY B. JONES & CO. IN B. JUNES & CU.
Importers, Jobbers, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

POTTIER & STYMUS

MANUPACTURING COMPANY.

INTERIOR WOODWORK,

DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st AND 42D STREETS, NEW YORK.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERT DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES. WARREOOMS, No. 597 BROADWAY, NEW YORK

LECTRIC ANNUNCIATORS, DOOR
AND CALL BELLS, FIRE AND BURGLAR ALARM
TELEGRAPH. Watches isolated buildings perfectly. Wire
to sleeping room. Alarm given if wire is cut or tampered
with, or entrance made. Sure thing. WM. A. BARNES,
99 WATER STREET, BRIDGEPORT, CONN.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., 547 Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER.

No. 17 PERBERTON SQUARE.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &c., No. 266 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court Bt. ANDREW G. PAUL, Agent. Buildings piped and fit-ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFAC-ERS of these goods in New England. No. 11 Marshall et, Bos on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON EARM, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLET STREET, BOSTOV. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BESJ. NOYES, Agent,

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND YENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY

GRANITE BUILDING Furnish—ONUMENTAL WORK.

ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.

QUARTIES: HAT VIEW, GLOCGESTER, MASS.

JONAS B. FRENCE, PTES.

SCOTT WEBBER, SUPL.

A RCHITECTURAL ORNAMENTS (Sheet business card.
THE KITTREDGE CORNICE AND ORNAMENT CO.,
Salem, Ohio

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

GEO. DWIGHT, JR., & CO.,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their busines: FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in parts of the country. Over 6000 pairs put up in Bou after the fire. Saved the city of Springfield last year

after the fire. Saved the city of Springfield last year.

FIRE-PROD' LAIM. In the words of one of the best-known
architects of this country. "Minimum of metal, maximum of stiffness, maximum of citiech the lost
ever made, either wood or iron." See New Yor. Fost
Office; Stafe Department, Washington; Equitable Life
Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when esired, to explain our methods, and to present for inspecon construction plans and estimates for any specific work.

PROPOSALS.

STONE FOR ROCK ISLAND ARSENAL Sealed proposals, to be opened at 10, A M., Sept. 12, 1876 Sealed proposals, to be opened at 10, Am. Sept. 13, 1876, as leaving the proposals to be opened at 10, Am. Sept. 13, 1876, re invited to furnish about 8 600 cubic yards of Dimension, while, and Rubble Stone for one shop, at this Amenai, while a subject of the invited of furnish about 8 600 cubic yards of Dimension, while the state of the proposal of the contract of the contract of the faithful performance of the quality in unnitities, and at the times, specified, and to give good and inficient bonds for the faithful performance of the contract, bout 460 yards of the stone may be required this season, he purchase of the remainder will depend upon further pyropristions for the work. Not more than two-thirds of ill the stone would probably be required in any one year, folders must state the name of the quarry from which their tone will be taken must be prepared to show that they are such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the quarry swill enable them to furnave such control of the pages hold on show that the required quantity and quality of stone can be furnished within the specified time. The United States for the strategy of the stra

PROPOSALS.

CANADIAN PACIFIC RAILWAY.—
Sealed tenders addressed to the Secretary of Public Works, and Indorsed "Tender Pacific Railway," will be received at this office up to noon of Wednesday, the 20th September next, for works required to be executed on that section of the Pacific Railway extending from Red River eastward to Rat Portage, Lake of the Woods, a distance of about 11 miles, viz., the track laying and ballasting only, of about 77 miles, and the construction, as track-laying and ballasting, of about 87 miles, between Cross Lake and Rat Portage. For plans, specifications, approximate quantities, forms of tender, and other information, apply to the office of the Engineer-in-Chief, Ottawa. No tender will be entertained unless on the printed form, and unless the conditions are compiled with. By Order F. Braux, Secretary.

are compiled with. By Order F. Braux, Secretary.

CITY INFIRMARY.—Sealed proposals will
be received at the Infirmary Office, City Hall, Cleveland, O., until 12, m., Saturday, Sept. 6, 1878, for furnishing all labor and materials required for the erection and
completion of two wings to the City Infirmary for the
incurable insame, and for two hospital wards. Plans
and specifications can be seen, and all necessary information
obtained, at the office of A. Koehler, Architect, Room 14,
second floor, City Hall Building, after Aug. 23, Each proposal must be accompanied with a bond for one thousand
dollars for the acceptance of the contract, if awarded by the
Board. No proposal will be entertained, unless made on
the blanks which will be furnished by the architect. The
Board reserves the right to accept any, or refect all, preposals. By order of the Board, Jacon Bluim, Clerk.



BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the atest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings. own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,
MAEUFACTORY 19 WARRHAM STREET.

OPEN TO ENGAGE.—An Architect of 21 years' experience, who has occupied leading positions in England during the last twelve years, and has equired some reputation for artistic treatment of Eccle-diastical Gothic Design and Decoration. English and Canadian references of the highest class.

ARCHITECT, P. O. Box 2842.

Builders in Iron, and Engineers in Fire-Proof

Construction,

WANTED. — By an Established Civil Engineer in a large and growing city of Pennsylvania gineer in a large and growing city of Pennsylvania, who is too much engaged by other business to attend properly, a graduated architect as partner, with from \$500 to \$800 capital. Address "ENGINEER," care "American Architect and Building News." Boston.

MASS. INSTITUTE OF TECHNOLOGY. MASS. IN THE OF LECTIVOLOGY,

This school offers a four-years scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mininfergineers, Architects, Teachers of Science, and Manufacturers.

REMITTECTURE ombraces, besides the newestern scientific and mathematical studies, the attdy of architectural history, and the constant practice of original design.

Inchitectural minuty, and the design.

Special students in Architecture are received into a two-rears' special course.

For particulars address WILLIAM R. WARE, Esq., Prosessor of Architecture, or Dr. SAMUEL KNEELARD, Secretary, Bosrox, Feb. 1, 1876.

S. P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents. MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.

ENERET, BOSTON.

NGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest, "The Monarch of the Gien," "High Life," Low Life," "Laying Down the Law," "Shoring De Boy Bare," and others of equal beauty, Quarto. Price, \$100.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of Gurnishing heat to our dwellings and public buildings has become a recognised fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Beller, not however by any sacrifice in quality of material employed or workmanship, but by a simple combination of parts, whereby we accompliab the desired object, securing economy both in material and labor. Our Portable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesrooms. It has been win practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boiler, which will be send to any address upon application. Manufactured by

LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND. Large Assortment of the Latest Improved Designs. Low-down and Half Low-dow

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the

BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty. Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water, BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

No sumil can arise from the drain-pipe, it being perfectly trapped at the very outlet of the banin. It can be introduced at the cost of the ordinary Wash Bowl.

For descriptive circulars, address

L. S. MOORE & CO.,

40 Oliver Street, Boston.



PARQUET FLOORS.

The National Wood Manufing Co.

WOOD CARPETING, 950 Broadway, New York. Three-Cent Stamp for Des Brushes for Waxing Floors. or Designs

National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon

E. Hixon, jun



[ESTABLISHED 1944.] **PARLOR GRATES**

For Health and Comfort.

Made low or half low down, with the celebrated dumping attachment. Can be used for hard or soft coal, or wood. The finest assortment in New England.

H. M. CREAMER.

86 North Street, Boston Send for Price List. parties are living within for hundred miles of Boston, will paytocall and examin

TO INVENTORS AND MANUFACTURERS

The 45th Exhibition of the American Institute will on mher 6th; Machinery will be received after August 14 code after August 5th. Increased awards and a Special or this year. For particulars, blanks, etc., address "Gener tenness American Lissition. New York."



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement,

WALDO BROTHERS,

No. 94 Water Street, Boston

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, SEAR TREMONT, BOSTON.

EXAMPLES OF MODERN ARCHITEC-EE. From designs by SCOTT. STEERT, COLLING, rs. 1 vol. quarto. 46 plates. 315.00 ning designs for Churches, Cathedrals. Colleges, illway Stations, Museums, Model Dwellings, Baths, JAMES R. OSGOOD & CO., BOSTON.



J. & R. LAMB,

59 Carmine St., New York

CHURCH FURNITURE

Workers in Wood, Metal and Stone for Church purp exclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decoration 10 cts.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESBOOM.

No. 53 Chambers Street, New York.

E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS,

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



CATALOGUE OF Mailed free to any address.

All architectural and Scientific Book pplied at publishers' prices,



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Farsons & Torry, 568 Washingon st; Pikin Bros.

36 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal,
Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler,
130 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. I. — Bicliber Bros. 27 Weybosset st.
New York City. — A. Hammacher & Co., 39 Bowery;
L. J. Tillotton & Co., 50 Ey st; O. A. Nathusins, 229 Bowery; B. L.
Solomon & Sons, 509 Broadway; E. R. Krumm, 121 Essex street;
Solomon & Sons, 509 Broadway; E. R. Krumm, 121 Essex street;
Hubinger, 188 Grand st; C. A. Stock, 116 Wooster street.

Brooklyn, (E. D.) N. Y. — Hermann Weber, 134 Graham av.
Albany. — Maurice E. Viele, 41 State st.
Brooklyn, (E. D.) N. Y. — Hermann Weber, 134 Graham av.
Albany. — Maurice E. Viele, 41 State st.
Buffalo. — C. H. Utley, 32 Pearl st.
Buffalo. — C. H. Utley, 32 Pearl st.
Buffalo. — C. H. Co., 222 S. 23 st; B. L. Middleton, 817
N. 36 st; B. L. Solomon & Sons, 31 N. 24 st; F. A. Bueren, 436 E.
Dauphin st; Thomas Knight & Co., cor. Ridge ave, and Green st.
Pittaburg. — Joseph Woodwell & Co., cor. 24 ave, and Wood st.
Buffalo. — Gueyee Worthington & Co., 59 Water st;
Clacelanadt. — Glaescher & Kuhlman, 534 Main st; J. L.
Wayne & Son, 124 Main st.
Clickinnadt. — Glaescher & Kuhlman, 534 Main st; J. L.
Wayne & Son, 124 Main st.
Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph st; A. A. Ullrich
Co., 16 Fifth ave; J. Liebenstein & Co., 26 Rendolph st.
Betroit. — Buhl, Ducharme, a Co., 180 Woodbridge street.

Battimore. — C. S. Honove, 180 Nords & Fernal Street.

Bottonian. — James Walker & Co., 168 Woodbridge street.

Bottonian. — James Walker & Co., 168 K. James and Street.

Battimore. — S. J. Shaw & Co., 781 John st.

Battimore. — S. J. Shaw & Co., 781 John st.

Battimore. — S. J. Shaw a Co., 781 John st.

Battimore. — S. J. Shaw a Co., 781 John st.

Battimore. — S. J. Shaw a Co., 781 John st.

Battimore. — S. J. Shaw a Co., 781 John st.

Battimore. — S. J. Shaw a Co., 781 John st.

Our goods can be purchased of the above Agents at the rices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. FURNITURE AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

Architectural Books STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS.
27 WARREN STREET, NEW YORK.

POMES AND HOW TO MAKE THEM.
By E. C. GARDNER. Illustrated. 1 vol. square 12mo.
JAMES B. OSGOOD & CO., BOSTOR.

ROLLING SHUTTERS.



STEEL AND WOOD,

Stores, Dwellings, &c.

PRICE LIST. Per Foot

These prices include the necessary apparatus for working the Shutters, and delivery to Depot in New York City.

WILSON & JAMES.

Manufacturers under Patents Nos. 155, 398, and 172, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

NEERS.

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY, THUYA, ROSEWOOD, etc., WHITE HOLLY,

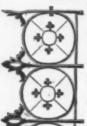
In Logs, Planks, Boards, and Veneers. Bowels all Sizes

suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS. Office, 10 Travers St., Boston.

Boston Ornamental Iron Works

WROUGHT AND CAST IRON



For Building IRON AND WIRE RAILING.

IRON CRESTINGS, IRON STABLE FIXTURES.

FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY,



ASAHEL WHEELER'S

It is unequalled for beauty, durability, and economy.
OFFICE AND STORE 145 MILK STREET, BOSTON

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF! JENNINGS' PAT. W. CLOSETS



IN ALL KINDS



JENNINGS' PATENT SIX. JOHNINGS' PATENT WATER CLOSETS, JENNINGS' PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, O'FICES & RAND, (12 Femberton Sq. Boston,) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST... BOSTON.

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
NOS. 488 & 490 HARRISON AVENUE, BO

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord. N. H. Officea, 19 Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 illutrations. 16mmo. \$1.50. Co., Bostow JAMES R. OSGOOD & CO., Bostow

ART FOLIAGE. By J. K. COLLING. 1 vol.
quarto. 72 plates. \$15.90.
** For sale by Booksellers. Sent postpaid, on receipt of
price, by the Publishers.
JAMES R. OSGOOD & CO., Boston.

Franklin Press: Rand, Avery, & Co., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake. where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c. -AND-

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing Wenty-four Heliotype Plates, from Corresgoio, Col LET, REWOODS, GREEZE, LAWRENCE, MERILLO, GERAEZE RAPHAEL, and other celebrated painters, —forming a seri-of charming pictures of children and child-life, Quart-Price, \$10.00. JAMES E. OSGOOD & CO., BOSTOO







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 37.]

BOSTON, SATURDAY, SEPTEMBER 9, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Philadelphia.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., & Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recom-mendations in its favor."— Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,

Quarryman, and Wholesale Dealer in
BUILDING STONE,
HIO STONE, PROM BERLIN, AMHERST, AND BEREA QUARRISS
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOE CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACKSON STREET. P. O. Box 621. ORANGE, N.J.

ELECTRIC BELL, AND ANNUNCIATORS, SPEAKING TUBES.

AND BURGLAR ALARMS. For Public and Private Buildings.

THE BEST IN USB.

S. W. FULLER, 63 Devenshire Street, Bosto

MARBLE FLOORING TILE.

White, Black, Red, Lyonaise, and other varieties, furnished in large or small quanties, by GEO. BARNEY, Swanton, Vt. Send for Circular and Price List.

S. A. STETSON & CO., 173 Tremont St.,
Boston, GAS FITTERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders furnished
with the lowest estimates.

GALVANIZED IRON CORNICES, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 337 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Teli (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:

ceilings under wooden or iron beams, in the following buildings:—
Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Hudson R. I.B. Fr'ght Depot, Williamb gh Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baitimore Safe Depott, Insurance on Wooden Mansards r.duced ninety cents per 100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwiters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President Office, 111 Broadway, N.Y.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK. ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING. HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Works, cor. Pratt and 8 BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig, and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

he only safe and reliable machine made for Passenger Public Buildings and Hotels, and for business purpose farehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

SAYER & FISHER.
MANUFACTURERS OF LIGHT COLORED
PRESSED FRONT BRICK RED (Buff to White,

MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS, FOR EXTERIOR AND INTERIOR ORNAMENTATION MADE TO ORDER FROM DESIGNS. ALSO, COMMON BUILDING BRICK. Works at Sayerville, on Raritan River, N.J., Office, NEWARK, N.J.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
264 TO 270 PASSAIG STREET, NEWARK, N.J.

ates made, and cut stone work of every description ly and accurately furnished. HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAFER HANGINGS.
612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

POTTIER & STYMUS

MANUFACTURING COMPANY.

INTERIOR WOODWORK.

DOORS AND TRIMMINGS,
FITFINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st AND 42d STREETS, NEW YORK.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES WARREGOMS, No. 597 BROADWAY, NE

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given it wire is cut or tampered. Ith, or entrance made. Sure thing. WM. A. BARNES, 99 WATER STREET, BEIDGEFORT, CORN.

G AS FIXTURES

OF EVERY DESCRIPTION
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, W ADDROUGH & SHERKI,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS.
No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Fark-Street Church,
Bos

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY

-FurnishGRANITE, BUILDING, AND MONUMENTAL WORK,
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON,
QUERTIES: BAT VIEW, GLOUCESTER, MASS.

JORAS H. FRENCH, Pres.
SCOTT WEBBER, SUPL.

A RCHITECTURAL ORNAMENTS (Sheet usiness card.
THE KITTREDGE CORNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, I7 Central Street, Boston.

M. W. PEIRCE & CO.,
BTEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT &

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfeld last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOYT will be pleased to wait upon Architects, when

Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when
desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

STONE FOR ROCK ISLAND ARSENAL STONE FOR ROCK ISLAND ARSEN, are invited to furnish about 8,000 cubic yards of Dimen Ashlar, and Rubble 8; one for one shop at this Aspert 12, are invited to furnish about 8,000 cubic yards of Dimen Ashlar, and Rubble 8; one for one shop at this Aspert 12, are aspected as the state of the tender of the content of the co

PROPOSALS.

J. CARTISSER, (ESTABLISHED 1858).
OBNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, ALIROAD CARS, OFFICES, &C., No. 328 West little St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court std up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshals Street, Bos on. RAILWAY -

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to farge or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trems at Street. Boston.

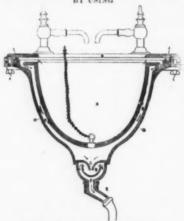
KIMBALL, 120 Trems at Montreal.

Toronto, Sarnia, Detroit Junction, or Buffalo; about 2,000 tons at Portland. The company has wharfage accommodation of shipment by water at Trounto, sarnia, and Portland; and deliveries would be made through the summer and autumn offers, stating the price per ton of 240 lbs., and the place of delivery, will be received by the undersigned up to the 15th of September. JOSEPH HICKSON, General Manager, Montreal.

SCHOOL HOUSE.—Sealed proposals for effect at high School Building at Panora, Guthrie Co., lo., will be received until 12 m., sopt: 18 at the office of the undersigned at Panora. Plans and apsecifications will be not the undersigned. The right is reserved to reject any and all bids. By order of the Board. L. J. PENTACOST, sections. VENTILATION.—IMPROVED WALL IRON RAILS.—Tenders are invited for the

STREET IMPROVEMENT. — Sealed proposals will be received at the office of the Board of Public Works, Cincinnati, until 12 m. of Friday, Sept. 18, A.D. 1876, for grading, macadamizing, setting curbs and gutters, and constructing the necessary culverts, drains, or retaining walls, in accordance with specifications on file in the office of the Board of Fublic Works, Vine Street, from Hammond Street to the North Corporation Line. The Board reserves the right of rejecting any or all of the bids. Each bid to be accompanied by two disinterested sureties. Bidders to use printed forms, as no other will be received. By order of the Board, Cincinnati, JOHN E. BELL, President; LEWIS G. BERNARD, Clerk.

Protect Your Houses ACAINST DAMAGE BY WATER,



WELLINGTON'S Patent Wash-Bowl.

It can be introduced at the cost of the ordinary wash-This guaranty accompanies every basin sold to our atrons: --

patrons:—
We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fulfil the following conditions, provided the trap is kept in running order:—

Ist. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No sewer gas will escape from the drain or pipe, or any offensive smell arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or gease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.



STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to of wellings and public buildings has become a recognize ict; and it needs only that its cost shall be brought with a reach of those of moderate means, to make it deserved opular. This end we have reached with our B-lier, no owever by any sacrifice in quality of material employer workmanship, but by a simple combination of part hereby we accommiss his desired which

LE BOSOUET BROS.,

Haverhill, and 14 Bedford Street, Boston.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-down Dumping and Shaking Grates.

BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH.
Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash. For Insane Hospitals, Fire Proof Buildings, &c.



Sash. of these Sashes gives perfect security with gratings that have a prison-like appearan introduced both architee's and medical super estify to their worth. Manufactured by

D. M. MEEKER & SON,

Newark, N.J.

The American Architect and Building News.

PUBLISHED WEEKLY BY JAMES R. OSGOOD & CO., WINTHROP SQUARE Boston.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING

on the first page, and pages next to editorial matter, 12ints per line (agate), or \$1.75 per inch (fourteen lines) one | 1001. | 1002 | 1003 | 1004 | 1004 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 | 1005 |



PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

950 Broadway, New York Send Three-Cent Stamp for Des Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York. Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall, ARCHITECT.

General Agt., 265 Broadway, N.Y.





[ESTABLISHED 1844.

PARLOR GRATES

For Health and Comfort.

Made low or half low down with the celebrated dump hard or The fine New Eng

H M CREAMER 86 North Street, Boston Send for Price List. arties are living within fl undred miles of Boston, vill paytocall and examir

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed.





rkers in Wood, Metal and Stone for Church purp sively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free Wood Work | Metal & Stone Work | Banners & Decorations 10 cts.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware. THE YALE LOCK MANUFACTURING COMPANY.

HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn.

No. 53 Chambers Street, New York.

E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS,

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS. Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME SAND

WALDO BROTHERS. No. 94 Water Street, Boston



Architectural Books

Mailed free to any address.

All architectural and Scientific Books upplied at publishers' prices, A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS. 27 WARREN STREET, NEW YORK.

OPEN TO ENGAGE, -An Architect of 21 years' experience, who has occupied leading post-21 years' experience, who has occupied leading tions in England during the last twelve years, and equired some reputation for artistic treatment of Eccle-iastical Gothic Design and Decoration.

English and Canadian references of the highest class. ARCHITECT, P. O. Box 284

WANTED, — By an Established Civil En-

gineer in a large and growing city of Pennsylvania who is too much engaged by other business to attend prop erly, a graduated architect as partner, with from \$500 to \$800 capital. Address "Engineer," care "American Architect and Building News," Boston.

MASS, INSTITUTE OF TECHNOLOGY M. This school offers a four-year's scientific and profonal training for Chemists, Metallurgists, Civil, Mechal, and Minling Engineers, Architects, Teachers of Scien od Manufacturers.

ad Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the nessary scientific and mathematical studies, the study chitectural history, and the constant practice of origin

ign.
pecial students in Architecture are received into a two

Special stituents in Architecture are received into a two-cars' special course.

The work of the school is exhibited at Philadelphia, in he East Gallery of the Main Building.

For particulars address William R. Wark, Esq., Pro-essor of Architecture, or Dr. Samuel Kreeland, Secretary. Boston, Feb. 1, 1878.

New No. 364.)

S. P. TOLMAN & E. A. HUNTING.
S. BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repairing and Lening Estates and the Collection of Rent.

B. Biron, Jun. Brown James And How To Make Them.

MORRIAGES NEGOTIATED. No. 11 BROWN IELD BY E. C. GARDERE. Blustrated. 1 vol. square Emo. JAMES E. OSGOOD & CO., BOSTON



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS. CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

Bostom.—Parsons & Torry, 68 Washingon st; Pitkin Brost Charlestown st; Alleu & Noble, 94 Hanover st; Bogman & Vinal, Dock sq.; Farless & Boynton, Ez Cornhill; Gardner & Chadler, Sil Washington st; B. L. Solomou & Sons, 49 Franklin street.

Providence, R. I.—Belcher Bros. 27 Weybosset st.
New York City.—A. Hammancher & Co., 298 Bowery; J. Tillottson & Co., 5 Dey st; O. A. Nathusius, 29 Bowery; B. L. Solomou & Sons, 639 Broadway, J. R. Krumm, 12 Essex street; J. Tillottson & Co., 5 Dey st; O. A. Nathusius, 29 Bowery; B. L. Solomou & Sons, 639 Broadway, J. R. Krumm, 12 Essex street; J. Tillottson & Co., 5 Dey st; O. A. Nathusius, 29 Bowery; B. L. Solomou & Sons, 64 Broadklyn, (E. D.) N. Y.—Hernann Weber, 139 Graham av.
Albany.—Maurice E. Viele, 41 State st.
Buchelser.—Pollock, Weaver, & Co., 17 Budfalo st.
Buchalo.—C. H. Utley, 32 Pearl st.
Philadelphin.—Thomas Thompson, Sons, & Co., 290 S. 24; Noblit, Brown, Noblit, & Co., 228 S. 24 st; B. L. Middleton, 817; S. St.; St. Solomon & Sons, 31 N. 24 st; B. L. Bucher, 485 E. Jamphin st; Thomas Ringht & Co., cor. Ridge swe, and Green st.

Battanore.—C. St doney Norrie & Co., 36 Hanover st; John bure & Sons, 24 South Charles st; Warffeld & Bohr, 62 So. Sharp st.
Cleveland, O.—George Worthington & Co., 39 Water st; Vm. Bingham & Co., 18 Water st; Philadelphia. — Thomas Thompson, Sons, & Co. 280 S. 24 st. Nobik, Brown, Nobik, & Co. 228 S. 24 st. B. L. Middleton, 817 N. 24 st. B. L. Solomon & Sons, 31 N. 24 st. F. A. Bueren, 435 E. Dauphin st. Thomas Knight & Co. cor. Ridge ave, and Green et. Pittsburg. — Joseph Woodwell & Co. cor. 24 ave, and Wood et. Baltimore. — C. Sidney Norris & Co. 39 Hanover st. John Duer & Sons, 24 South Charles st. Warfield & Bohr, 62 So. Shapp et. Cleveland, O. — George Worthington & Co. 39 Water st. Cleveland, T. — Glacescher a Kuhlman, 534 Main et. 24 Mayne & Son, 124 Nair et. Wayne & Son, 124 Nair et. Wayne & Son, 124 Nair et. Wayne & Son, 124 Nair et. Co. 16 Fifth ave. J. Liebenstein & Co. 22 Randolph at; A. A. Ullrich a Co. 16 Fifth ave. J. Liebenstein & Co. 22 Randolph & Co. 85 N. Louis. — Geo. A. Rubelman & Co. 85 N. 61 et. Washington. — F. P. May & Co. 64 Penneylvania avenua. San Francisco. — B. L. Solomon & Sons, 40 Market street. Montreal. — James Walket & Co. 165 St. James et. Quebec. — S. J. Shaw S. Co. 75 A. James et. Hamilton, Ont. — Watson & Thompson, 16 McNab & Hamilton, Ont. — Watson & Thompson, 16 McNab & 27 Our goods can be purchased of the above Agents at the

Our goods can be purchased of the above Agents at the

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

ROLLING SHUTTERS,



STEEL AND WOOD.

Stores, Dwellings, &c.

	PRICE LIST. Per Foot.
The state of the s	Rolling Steel Shutters
	Rolling Black Walnut Shutters55
	Rolling White Pine Shutters 50
	Rolling Venetian Shutters, in
	Hard Wood
The New Venetian Rolling-Blind.	Rolling Venetian Shutters, in
Potented Pal 15 1978	White Pine

These prices include the necessary apparatus for working the Shutters, and delivery to

Depot in New York City.

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 173, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY. THUYA. ROSEWOOD, etc., WHITE HOLLY.

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

order openings, making them the protection; also WOOD SHUT-are self-acting, require no machinery or balance order. They are handsome in appearance, and are the world. Are fitted to the new Tribune Building, Delaware nipal city throughout Europe, and are included the self-acting representation of the self-acting repiter representation of the self-acting representation of the sel Can be readily fitted to Store Front FIRE AND BURGLAR PROOF, and TERN in various kinds of wood, suits

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c. SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

PLUMBERS' SUPPLIES

JENNINGS PATENT SIX- JOHNINGS PATENT WATER CLOSETS, JENNINGS PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiar-ty of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS, C. A. WELLINGTON, PROPRIETOR,



PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

We Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

Boston Ornamental Iron Works

For Building IRON AND WIRE RAILING. IRON CRESTINGS,

IRON STABLE FIXTURES, FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES,

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY, 118 MILE STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

irs.

its no poisonous gas like other paints while drying.

face is a perfect enamel, from which any specks of It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON,

(Late WESTON & RAND, 17 Pemberton Sq. Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., BOSTON. CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93 water Street, Boston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverbill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 16mmo. \$1.59. JAMES R. OSGOOD & CO., BOSTON

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

. For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTOM.

Franklin Press: Rand, Avery, & Co., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES, Containing







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 38.]

BOSTON, SATURDAY, SEPTEMBER 16, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Wainut Street, Boston. New York. Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS. 83 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor." - Iron Age.

NEW ENGLAND LINEN HOSE MANU-Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and AGENT FOR CANAAN MARBLE nd New Jersey.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACKSON STREET.

ORANGE, N.J.

P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS, SPEAKING TUBES.

AND BURGLAR ALARMS,

For Public and Private Buildings. THE BEST IN USE.

S. W. FULLER, 63 Devonshire Street, Boston

FOR MARBLE FLOORING TILES, GEO. BARNEY, Swanton, Vt. Address

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Bullders furnished with the lowest estimates.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS. Campbell's Patent Chinney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 357 Harrison Avenue, Boston.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

re-proof partitions, floor arches between iron beams, ngs under wooden or iron beams, in the following

Cenings under wooden or iron beams, in the following buildings:—wooden or iron beams, in the following buildings:—Western Union Telegraph, Del. and Hudson Canal Co., Staats Zeitung, Hudson E. R. B. Fr'ght Depot, Wil mab gin Sawings Bank, Westminster Hotel, Syraeuse Savings Bank, Columbia College, Windsor Hotel, Syraeuse Savings Bank, Columbia College, Windsor Hotel, Syraeuse Savings Bank, Columbia College, Delta College, Windsor Hotel, Syraeuse Savings Bank, Columbia College, Oliver, Windsor Hotel, Syraeuse Savings Bank, Columbia College, Windsor Hotel, Savings Hudson Bank, Columbia College, Windsor Hot

LEONARD F. BECKWITH, President.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK, ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING. HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Office 24 Light St.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY.

Manufacturers of and Dealers in stanuacturers of and Dealers in
Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig.
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Angle and T Iron, Boiler and Tank
Rivets, Lap-Welded Iron Boiler Tubes,
Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

he only safe and reliable machine made for Passenger Public Buildings and Hotels, and for business purpose archouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)

PRESSED FRONT BRICK. MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

DRICKS OR BLUCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.
Works at Sayerville, on Raritan River, N.J.,
Office, Newark, N.J.

GEORGE BROWN. STEAM STONE-DRESSING WORKS. 284 TO 270 PASSAIO STREET, NEWARK, N.J. imates made, and cut stone work of every description ptly and accurately furnished.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAFER HANGINGS,
WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

A RCHER & PANCOAST MANUF. CO.,

GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE. 67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOME,

NEW YORK.

Broadway cars pass the do

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.

WARROOMS, No. 597 BROADWAY, NEW YORK.

ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thing. W.M. A. BARNES, 99 WATER STREET, BRIDGEFORT, CORE.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 5if Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS,
No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, DOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Boston.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

BUILDERS' SUPPLIES.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &c., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

M URDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure sir, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

PULLER, DANA, & FITZ,
Illo NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
BURDER BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought from Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY GRANTE BUILDING, AND MONUMENTAL WORK.
ALSO GRANTE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarries: BAY VIEW, GLOUCESTER, MASS.
JONAS H. FRENCH, Pres.
SCOTT WEBBER, SUP.

A RCHITECTURAL ORNAMENTS (Sheet business card,
THE KITTREDGE CURNICE AND ORNAMENT CO.
Salem, Oh

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, OAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

G EO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTOK.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.

HAVE for many years given their exclusive attention to FIRE-PROOF CONTRICTION; and they now invite the correspondence of Architecta to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

FiRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUITERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of sulffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOTT will be pleased to wait upon Architects, when dealred, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

PROPOSALS FOR CONVERTING OLD HOSPITAL BUILDING INTO OFFICERS' QUARTERS.

CHIEF QUARTERMASTER'S OFFICE,
FIRST QR. MR. DIST., MIL. DIV. OF THE ATLANTIC,
HOUSTON STREET, CORNER GREENE,
NEW YORK CITY, Aug. 22, 1876.

NEW YORK CITY, Aug. 22, 1876.

Scaled proposals, in triplicate, under the sual conditions, will be received at this office, until 12 o'clock noon, on Sept. 29, 1876, at which time and place they will be opened in presence of bidders, for the moving of the Administration Building of old Hospital at Fort Hamilton, N. Y. Harbor, nto line with new quarters, about three hundred yards, and convertingisame into two (2) sets of Officers' Quarters.

Plans and specifications for this work can be seen at this office, and at the office of the Post Quartermaster, Fort Hamilton, where blank proposals and all necessary information will be furnished bidders on application.

Envelopes containing proposals should be marked "Proposals for converting Old Hospital Building Into Officers' Quarters."

PROPOSALS.

CANADIAN PACIFIC CANADIAN PACIFIC RAILWAY.—

Sealed tenders addressed to the Secretary of Public Works, and indorsed "Tender Pacific Railway," will be received at this office up to noon of Wednesday, the 20th September next, for works required to be executed on that section of the Pacific Railway extending from Red River eastward to Bat Portage, Lake of the Woods, a distance of about 114 miles, viz., the track laying and ballasting only, of about 37 miles, between Cross Lake and Rat Portage. For plans, specifications, approximate quantities, forms of tender, and other information, apply to the office of the Engineer-in-Chief, Ottawa. No tender will be entertained unless on the printed form, and unless the conditions are compiled with By Order F. BRAUN, Secretary.

CCHOOL HOUSE.—Sealed proposals for RAILWAY. -

are compiled with By Order F. BRAUN, Secretary.

SCHOOL HOUSE.—Sealed proposals for erecting a High School Building at Panora, Guthris Co., Io., will be received until 12 m., Sept. 18, at the office of the untersigned at Panora, Planas and specifications will be sent to the undersigned the proposal service of the Undersigned. The right is reserved to reject any and all bids. By order of the Board. L. J. PENTACOST, Secretary.

YALE LOCKS,

"STANDARD" LOCKS,

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

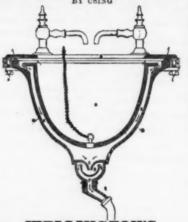
HENRY R. TOWNE, PRES'T.

Principal Office and Works, Stamford, Conn. SALESROOM.

No. 53 Chambers Street, New York.

Protect Your Houses ACAINST

DAMAGE BY WATER,



WELLINGTON'S Wash-Bowl.

It can be introduced at the cost of the ordinary wash-b This guaranty accompanies every basin sold to our

We hereby pledge ourselves to remove our basins and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fuilit the following conditions, provided the trap is kept in running order:

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No sweer gas will escape from the drain or pipe, or any offensive smell arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

For describitive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston



STEAM HEATING LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Boller, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Portable Boller, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boller at our salesrooms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boller, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS., Haverhill, and 14 Bedford Street, Boston.



PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-down

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the
BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty. Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash. For Insane Hospitals, Fire Proof Buildings, &c.



The use of these Sashes gives perfect security without the usual gratings that have a prison-like appearance wherever introduced both architects and medical supering endents testify to their worth. Manufactured by

D. M. MEEKER & SON,

Fine Castings of Malleable and Gray Iron, German Silver, and Composition: also Patterns a specialty.

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE..... BOSTON.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 121 ents per line (agate), or \$1.75 per inch (fourteen lines) one

r inch.

One inch, one month

One inch, three months

15.60

One inch, nine months

45.60

One inch, nine months

55.00

One inch, one year

55.00

No extra charge for cuts, or for advertisements that ocre than one column in width.



PARQUET FLOORS.

The National Wood Manufing Co.

WOOD CARPETING. 950 Broadway, New York. Send Three-Cent Stamp for Designs. Brushes for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York, Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.





[ESTABLISHED 1844.

PARLOR GRATES

For Health and Comfort Made low or half low dow with the celebrated dum ing attachment. Can used for hard or soft cor or wood. The finest assonment in New England.

H. M. CREAMER, 86 North Street, Boston. Send for Price List. If parties are living within five hundred miles of Boston, it will paytocall and examine.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon

Fred. Reed,

E. Hixon, jun.



J. & R. LAMB.

59 Carmine St., New York.

CHURCH FURNITURE.

orkers in Wood, Metal and Stone for Church purposed asively. Pollshed Brass and Sterling Sliver. Illustrated Catalogues Post Free.

d Work | Metal & Stone Work | Banners & Decorations 0 cts. 10 cts.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.

SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and

Tile, Land Tile. American, Roman, and Portland Cement, LIME, SAND, &c.

> WALDO BROTHERS, No. 94 Water Street, Boston

CATALOGUE OF Architectural Books

Mailed free to any address. All architectural and Scientific Books supplied at publishers' prices, A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STEKET, NEW YORK.

OPEN TO ENGAGE.—An Architect of 21 years' experience, who has occupied leading positions in England during the last twelve years, and has acquired some reputation for artistic treatment of Ecclesiastical Gothic Design and Decoration.

English and Canadian references of the highest class.

Address,

ARCHITECT,
P. O. Box 2842

Montreal, Canada.

WANTED. - By an Established Civil Engineer in a large and growing city of Pennsylvania, who is too much engaged by other business to attend properly, a graduated architect as partner, with from \$500 to \$890 capital. Address "Engineer," care "American Architect and Building News," Boston.

MASS. INSTITUTE OF TECHNOLOGY. This school offers a four-years' scientific and profe training for Chemists, Metallurgists, Civil, Mechan and Mining Engineers, Architects, Teachers of Science

nd Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of rehitectural history, and the constant practice of original studies.

ign. pecial students in Architecture are received into a two

Special course.

The work of the school is exhibited at "hiladelphia, in the East Gallery of the Main Building.

For particulars address William R. Ware, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary.

Boston, Feb. 1, 1876.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERO

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

A G E N T S.

Reston.—Farsons & Torry, 636 Washingon st; Fithin Broz. 23 Charlestown st; Allen & Noble, 34 Hanover st; Bogmun & Vinal, 7 Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 122! Washington st; B. L. Solomon & Sons, 49 Frankin street.

Providence, K. I. — Belcher Broz, 27 Weyboset st.

Providence, K. I. — Belcher Broz, 27 Weyboset st.

Solomon & Sons, 639 Broza, 12 Cornhill; Gardner & Chandler, 122! Washington st; B. L. Solomon & Sons, 639 Broza, 12 Cornhill; Gardner St. C. & Stock, 18 Wooster street.

L. J. Tillotison & Co. 8 Dey st; O. A. Nathusiun, 229 Bower; B. L. Solomon & Sons, 639 Broza, 12 Essex street; Chas. E. Kugler, 10 Division st.; Speyer Broz, 110 Bower; W. F. Hubinger, 186 Grand st; C. A. Stock, 16 Wooster street.

Brooklyn, (E. D.) N. Y. — Hermann Weber, 134 Graham av.

Albany. — Maurice E. Viele, 41 State st.

Rochester. — Follock, Weaver, & Co., 17 Buffalo st.

Huffalo. — C. H. Uiey, 62 Feari & State st.

Rochester. — Follock, Weaver, & Co., 17 Buffalo st.

Huffalo. — C. H. Uiey, 62 Feari & St. M. 2d st; P. A. Bueres, 435 E.

Dauphin st; Thomas Knight & Co., cor. Ridge ave, and Green st.

Pittaburg. — Joseph Woodwell & Co., cor. 2d ave, and Wood st.

Baitimore. — C. Sidney Norris & Co., 36 Hanover st; John

Duer & Sons, 24 South Charles st; Warfeld & Bohr, 62 So. Sharp of Clevetland, O. — George Worthington & Co., 39 Water st; Wh. Bingham & Co., 169 Water st.

Whyne & Son, 123 Main st.

Chicago. — J. L. Wayne & Son, 74 Randolph st; A. A. Ullrich & Co., 16 Fifth ave; J. Liebenstein & Co., 287 N. 6th st.

Washington. — F. P. May & Co., 163 Woodbridge street.

St. Louis. — Geo A. Rubelmann & Co., 187 N. 6th st.

Washington. — F. P. May & Co., 163 Woodbridge street.

St. Louis. — Geo A. Rubelmann & Co., 187 N. 6th st.

Washington. — F. P. May & Co., 163 W. James st.

Guerberg. — Bull, Ducharme, & Co., 163 W. James st.

Guerberg. — Bull, Ducharme, & Co., 163 W. James st.

Guerberg. — Bull, Ducharme, & Co., 164 Wennysivania avenue.

San Francisco. — B. L. Solomon & Sons, 410

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

P. TOLMAN & E. A. HUNTING, RUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repair-ing and Leasing Estates and the Collection of Kents, MORTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.

ROLLING SHUTTERS,



STEEL AND WOOD,

Stores, Dwellings, &c.

for working the Shutters, and delivery to These prices include the necessary apparatus Depot in New York City.

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 172, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1833.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

ENEERS

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., WHITE HOLLY. MAHOGANY. THUYA.

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourn



SEWERGASSHUTOFF!

JENNINGS' SPECIALTIES

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, EMPININGS' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR, Designer and Importer of

PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

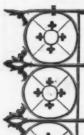
AND BANK FLOOKS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS



For Building IRON AND WIRE RAILING,

IRON CRESTINGS. IRON STABLE FIXTURES.

FOUNTAINS. GARDEN STATUARY,

WEATHER VANES.

AND

BUILDERS' HARDWARE.

Estimates given on all kinds o Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY, 118 MILE STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

of may easily be removed.
It is unequalled for beauty, durability, and economy.
OFFICE AND STORE 145 MILK STREET, BOSTON

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON,

(Late Weston & Rand, 17 Pemberton Sq. Boston, ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect, office 19 Broad, corner Central Street, Boston. JOS. E. BILLINGS, Architect, 33 School Street Boston.

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 499 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 31 Haverhill St., Bos-ton. Posts, Ralis, Balusters, & Office Ralls, furnished to order.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 16mmo. \$1.50.

JAMES R. OSGOOD & CO., BOSTON

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$18.00. *.* For sale by Booksellers. Sens post, price, by the Publishers.

JAMES R. OSGOOD & CO., Bostos.

Franklin Press: Rand, Avery, & Co., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

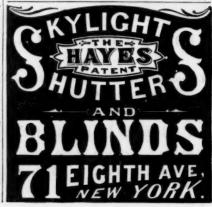
MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c. -AND-

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correction, College, RAPHAEL, and other celebrated painters, -forming a ser of charmling pietures of children and child-life. Quar Price, \$10.00. JAMES E. OSGOOD & CO., Bosto







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 39.7

BOSTON, SATURDAY, SEPTEMBER 23, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Boston. New York. Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great atrength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY.
Linen and Rubber-Lined Linen
FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 399 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in Quarryman, and Wholesale D BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BERRA QUARRIES
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER.

No. 10 Jackson Street.

ORANGE, N.J.

P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS, SPEAKING TUBES.

AND BURGLAR ALARMS,

For Public and Private Buildings. THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Boston.

FOR MARBLE FLOORING TILES, GEO. BARNEY, Swanton, Vt. Address

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIERS. Gas Fipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

GALVANIZED IRON CORNICES, Campbell's Patent VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. 5Mirit & VAN NOORDEN, 387 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest coments known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, cellings under wooden or iron beams, in the following buildings:

Western Union Telegraph,
Del, and Hudson Canal Co.,
Equitable Life Assurance.
Wil mso gla Savings Bank,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Syracuse Savings Bank,
Tribune, Peabody Museum.
Slow. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Froot work is the only one approved by the New York Board of Fire Underwritera, and the Superintendent of Buildings, after severe public tests.

Office, III Broadway, N.Y.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IBON WORK,
OBNAMENTAL IBON WORK,
GALVANIZED IBON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY. Works, cor. Pratt and Scott Sts., BALTIMORE, MD.

TOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in geneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lup-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

The only safe and reliable machine made for Passeng in Public Buildings and Hotels, and for business purp Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York. OTIS TUFTS, President.

L. A. Bigslow, Treas'r and Gen'l Manager.

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED

PRESSED FRONT BRICK ORED (Buff to White) MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

FOR EXTERIOR AND INTERIOR ORNAMENTATION MADE TO ORDER FROM DESIGNS.

ALSO, COMMON BUILDING BRICK. Works at Sayerville, on Raritan River, N.J., Office, NEWARK, N.J.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.

264 TO 270 PASSAIO STERET, NEWARK, N.J. timates made, and cut stone work of every description optly and accuracely furnished.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUPACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

MANUFACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,
AND
CHURCH METAL-FURNITURE.

67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOME,

NEW YORK.

Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERT DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES
WARROOMS, No. 597 BROADWAY, NE

NEW YORK

ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered the or entrance made. Sure thing. WM. A. BARNES, 89 WATER STEER, BRIDDERFORT. COM. ELECTRIC

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 5if Washington St. BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, NO. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 19 SCHOOL STREET, DOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILFOAD CARS, OFFICES, &c., No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court
St. ANDREW G. PAUL, Agent. Buildings piped and fited up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUFACTURES of these goods in New England. No. 11 Marchall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS. Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of The Usion
IRON MILLS' Solid Wortcht IRON BRANS, and The
"Burden Best" Iron, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA NY, 24 HAWLEY STERET, BOSTON. GLAZED SEWER DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &C. BENJ. NOYES, Agent

WALWORTH MANUFACTURING CO.,
STEAM AND HOT WATER WARMING AND
WROUGH IFON PIPES AND FITTING. Gas Lighting Apparatus
Wrought Iron Pipes and Fittings. No. 69 Kilby St., Boston

CAPE ANN GRANITE COMPANY

Furnish—
Furnish—
GRANITE BULLDING AND MONUMENTAL WORK.
ALSO GRANITE FLAND MONUMENTAL WORK.
SIMMONS BULLDING, 60 WATER ST., HOSTON.
QUARTIES: BAY VIEW, GLOUGESTER. MASS.
JONAS BL. FRENCE, PRES.
SCOTT WEBBER, Supt.

A RCHITECTURAL ORNAMENTS (Sheet business card.
THE KITTREDGE CURNICE AND ORNAMENT CO.,
Selem Ohi

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

G EO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to Firs-Proof Construction; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance
Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in al parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

after Ine. Saved the city of Springerd and year.
FIRE-PROD' LATH. In the words of one of the best-known
architects of this country, "Minimum of metal, maximum of attifines, maximum of cilinch; the best lattle
ever made, either wood or iron." See New York Post
Office; State Department, Washington; Equitable Life
Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when sired, to explain our methods, and to present for inspect on construction plans and estimates for any specific work

PROPOSALS.

PROPOSALS FOR CONVERTING OLD HOSPITAL BUILDING INTO OFFICERS' QUARTERS.

CHIEF QUARTERMASTER'S OFFICE,
FIRST QR. MR. DIST., MIL. DIV. OF THE ATLANTIC,
HOUSTON STREET, CORNER GERENE,
NEW YORK CITT, Aug. 22, 1876.

NEW YORK CITY, Aug. 22, 1876.
Scaled proposals, in triplicate, under the usual conditions, the procedure of this office, until 12 o'clock noon, on opt. 28, 1876, at which time and piace they will be opened presence of bidders, for the moving of the Administration until the procedure of the control of the control of the triple of the distribution of the distribution of the work can be seen at this disc, and at the office of the Post Quariermaster, Fortamilton, where blank proposals and all necessary information of the proposals should be marked "Prosals for converting Old Riospital Building into Officers' quarters."

PROPOSALS.

CITY OF PROVIDENCE. — Proposals for a Passenger Elevator. Sealed Proposals for a Passenger Elevator. Sealed Proposals for a Passenger Elevator for the new Citry Hall. BUILDING will be received by the City Hall Commissioners, at their office, No. 5 What Cheer Building, Providence, Lit, until 19 o'clock, M., Oct. 10, 1876.
Lithographed plans of the ahaft, space for machinery, &c., will be furnished bond fide bidders on application to the commissioners as above, or to the architect, S. J. F. Thayer, No. 40 Water Street, Boston.
The bids may be for water or steam power; and each bid must be accompanied by a bond in the sum of \$1,000, that a constract will be signed within thirty days of the reception of bids.
The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$3,000, for the faithful performance of the contract.
The right to reject any or all bids is reserved.

WM. G. R. MOWRY,

WM. G. R. MOWRY, HENRY G. RUSSELL, WM. M. BAILEY,

MASS. INSTITUTE OF TECHNOLOGY.

MASS. IN STRUCT OF THE OF THE STRUCTURE AND THIS SCHOOL OFFIS A FOUR-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

The Course if Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original

architectural instry, and the constant plant design.

Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. SAMUEL KNELLAND, SCHOLDEN, BOSTON, Feb. 1, 1876.

BOSTON Architecture, or Dr. Sarker Research, Secretary.
BOSTON, Feb. 1, 1876.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. Varins. Reproduced by the Heliotype Process.
I vol. quario. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., BOSTON.

JAMES R. OSGOOD & CO., Boston.

LOCKS, YALE

"STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY B. TOWNE, President.

Principal Office and Works......Stamford, Conn.

ILLUSTRATED CATALOGUES furnished free to Architects on application

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue. BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for

Catalogi MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash.

For Insane Hospitals, Fire Proof Buildings, &c.



D. M. MEEKER & SON.

Newark, N.J. Fine Castings of Malleable and Gray Iron, German Silver, id Composition; also Patterns a specialty.

PROTECT YOUR HOUSES AGAINST Damage by Water,

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars. It can be introduced at the cost of the ordinary wash-bowl. This guaranty accompanies every basin sold to our patrons:

patrons:

We hereby pledge ourselves to remove our basins, and e place them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fuilit the following conditions, provided the trap is kept in running order:

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No swer gas will escape from the drain or pipe, or any offensive smell arise from them.

4h. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO.,
40 Oliver Street, Boston.

ART FOLIAGE, By J. K. COLLING. 1 vol.
quarto. 72 plates, 38.90.

** For eale by Booksellers. Sent postpaid, on receipt of price, by the Publishers,
JAMES R. OSGOOD & CO., Bostow.

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE..... Boston.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy: \$7.50 per year: \$6.00 in advance

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 12; ents per line (agate), or \$1.75 per inch (fourteen lines) one

One inch, one month \$5.60
One inch, three months 16.60
One inch, nine months 46.60
One inch, nine months 46.00
One inch, one year 58.00
extra charge for cuts, or for advertisements that oc than one column in width.



PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

Broadway, New York. Send Three-Cent Stamp for De-Brushes for Waxing Floors,

National Fine Art Foundery.

218 East 25th Street, New York Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.





PARLOR GRATES

For Health and Comfort Made low or half low dow with the celebrated dum ing attachment. Can used for hard or soft co-or wood. The finest asso-ment in New England.

H. M. CREAMER,

86 North Street, Boston Send for Price List. I parties are living within five hundred miles of Boston, is will paytocall and examine

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Works

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon.

Fred. Reed.

E. Hixon, jun.



J. & R. LAMB,

59 Carmine St., New York

CHURCH FURNITURE.

ers in Wood, Metal and Stone for Church purp rely. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

ood Work | Metal & Stone Work | Banners & Decoration 10 cts. | 10 cts.

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING. IRON CRESTINGS. IRON STABLE FIXTURES.

FOUNTAINS.

GARDEN STATUARY.

WEATHER VANES.

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue

BUBIER & COMPANY,

118 MILK STREET, BOSTON.

E. & G. G. HOOK & HASTINGS,

Builders of

CHURCH ORGANS,

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and Tile. Land Tile.

American. Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,



CATALOGUE OF Architectural Books

Mailed free to any address. All architectural and Scientific Books supplied at publishers' prices, A. J. BICKNELL & CO.,

ARCHITECTURAL BOOK PUBLISHERS 27 WARREN STREET, NEW YORK.

OPEN TO ENGAGE. - An Architect of O'EM TO ENGAGE.—An Architect
21 years' experience, who has occupied leading p
tions in England during the last twelve years, and
acquired some reputation for artistic treatment of Ecstastical Gothic Design and Decoration.
English and Canadian references of the highest class.

ARCHITECT, P. O. Box 2841 Montreal, Canada. Address,

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late Weston & Rand, 17 Pemberton Sq. Boston,) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., POSTO

CHARLES D. WOODBERRY, Architect, Office 19 Broad, corner Central Street, Boston.

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 98
Water Str et, Boston.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, S& Washingon st; Pitkin Brot.

3C Charlestown st; Allen & Noble, 9 Hanover st; Bogman & Vinal, 7 Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 132 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R.I. — Belcher Bros, 27 Weybosset st.

New York City. — A. Hammacher & Co., 399 Bowery; L. J. Tillottona & Co., 30 Ey st; O. A. Nathusius, 239 Bowery; B. L. Solomon & Sons, 69 Broadway; E. R. Krumm, 12 Essex street; W. F. Brookingn, E. D. N. Y. — Hermann Weber, 138 Graham av. Albany. — Maurice E. Viele, 41 State et.

Brookingn, (E. D.) N. Y. — Hermann Weber, 138 Graham av. Albany. — Maurice E. Viele, 41 State et.

Brookingn, (E. D.) N. Y. — Hermann Weber, 138 Graham av. Albany. — C. H. Uley, 22 Parl st.

Brutalo. — C. H. Uley, 22 Parl st.

Buffalo. — C. H. Uley, 22 Parl st.

Buffalo. — C. H. Uley, 32 Parl st.

Buffalo. — C. H. Uley, 32 Parl st.

Buffalo. — C. H. Uley, 32 Parl st.

Buttalor. — C. H. Glesscher St. B. L. Solomon & Sons, 31 N. 2d st; F. A. Bueren, 430 E. Dauphin st; Thomas Knight & Co., 60 Ridge ave, and Green st.

Pittaburg. — Joseph Woodwell & Co., 607, 42 we, and Wood st.

Baltimore. — C. Sidney Norris & Co., 36 Hanover st; Uohn Duer & Sons, 34 South Charles st; Warffeld & Bohr, 62 So. Sharp st.

Cleveland, 6. — George Worthington & Co., 30 Water st; Cleveland, 6. — George Worthington & Co., 30 Water st; Co., 18 Handlon, 22 Randolph st; A. A. Ullrich & Co., 16 Fisher, — Geo. A. Rubelmann & Co., 27 N. 61s.

Clineano, 12 Main st.

Betroit. — Buhl, Ducharme, & Co., 180 Woodfridge street.

Washington. — — E. L. Solomon & Sons, 410 Market street.

Montreal. — James Walker & Co., 16 St. James, 16 Mans st.

Hamilton, 6nt. — Watson & Thompson, 16 McNab st.

Our goods can be purchased of the aborices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY, **FURNITURE**

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

S. P. TOLMAN & E. A. HUNTING.
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

ROLLING SHUTTERS.



STEEL AND WOOD.

Stores, Dwellings, &c.

Rolling Wenter and Shutters, in Hard Wood

The New Venetian Rolling-Blind, Rolling Venetian Shutters, in Patented Feb. 15, 1876. These prices include the necessary apparatus for working the Shutters, and delivery to

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 173, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

NEER

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. WHITE HOLLY, MAHOGANY. THUYA. ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

Can be readily fitted to Store Fronts, Rear V FIRE AND BURGLAR PROOF, and affording TERS in various kinds of wood, suitable for S School Partitions. Clark's Shutters are self-

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne, &c.



JENNINGS' SPECIALTIES

PLUMBERS' SUPPLIES

Jennings' Patent Water Closets, enings' patent JENNINGS' PATENT SIX-

Patent Siop and Kitchen Sinks, T. atent Latrines, and other specialties lusion of sewer gas), with a large sto Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.



ASAHEL WHEELER'S CONSTANT WHITE PAINT

It is unequalled for beauty, durability, and economy.
OFFICE AND STORE 145 MILK STREET, BOSTON

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
ROS. 463 & 490 HARRISON AVERUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord. N. H. Offices, 10 Cannal Street,
Boston, and Concord and Manchester, X. H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverbill St., Boston.
Posts, Rails, Balusters, & Office Rails, furnished to order.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 18mmo. \$1.50. E. OSGOOD & CO., BOSTON

Franklin Press: Rand, Avery, & Co., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correction, Corlett, Retfolds, Gerler, Lawrence, Muelllo, Gerled, RAPhael, and other celebrated painters, -forming a series of charming pictures of childden and child-life. Quarto, Price, \$10.06. JaMes R. OSGOOD & CO., BOSTON.







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART

Vol. I. No. 40.1

BOSTON, SATURDAY, SEPTEMBER 30, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street Boston. | New York. | Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS., & Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recom-mendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BERRA QUARRIES
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOB CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACKSON STREET.

ORANGE, N.J.

P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS

SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER, 63 Devonshire Street, Boston

FOR MARBLE FLOORING TILES,

GEO. BARNEY, Swanton, Vt.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND SS CHANDELIERS. Gas Pipe, and Fitting in all in thes. Architects, Contractors, and Builders furnished with the lowest estimates.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 837 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF THE FIKE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

an brick.
Fire-proof partitions, floor arches between iron beams, flings under wooden or iron beams, in the following

western Union Telegraph, Bellidings: "Western Union Telegraph, Del. and Hudson Canal Co. Equitable Life Assurance, Wil'mab's his Savings Bank, Westminater Hotel, Syracuse Savings Bank, Columbia College, Baltimore Safe Deposit, Insurance on Wooden Masards reduced interventis per Side. Sidewalks laid at Lenox Library, Tribune, &c. Holiow Bricks of all kinds. Our Fire-Froot work is the only one approved by the New York Board of Fire Underwritera, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS,

As laid by us in THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every part of the Country. Glazed and Enamelled Tiles for Mantels, Hearths, Wain-scoting, &c., and for Exterior Decoration.

MILLER & COATES,

279 PEARL STREET, NEW YORK

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY. Works, cor. Pratt and S Office 24 Light St. ott Sts.

BALTIMORE, MD.

JOHN H. REED & CO. IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boller and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR,

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

7 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAPER HANGINGS
612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO. CLEVELAND, O.

MANUPACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

RCHER & PANCOAST MANUF. CO.,

MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,
AND
CHURCH METAL-FURNITURE.
67 GREEF ST.; 68, 70, & 72 WOOSTER ST., AROVE BROOME,

NEW YORK.

Broadway cars pass the door

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS. ALSO GAS FIXTURES.
WARREOOMS, No. 597 BROADWAY, NEV

NEW YORK.

ELECTRIC ANNUNCIATORS, DOOR TELEGRAPH. Watches isolated buildings perfectly. Whe to sleeping room. Alarm given if wire is cut or tampered with, or entrance made. Sure thing. W.M. A. BARNES, 59 WATER STREET, BRIDGEFORT. CORN.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 6if Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMOST STREET, BOSTON, MASS.

No. 17 PEMBERTON SQUARE,

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
No. 15 Senou Established 1848)
FEESCO PAINTER,
No. 15 Senou Established 1848)
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTOM.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

SAYER & FISHER. RED (Buff to White) MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

BEICES OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS
ALSO, COMMON BUILDING BRICK,
Works at Sayerville, on Raritan River, N.J.,
Office, Newark, N.J.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.

264 TO 270 PASSAIC STREET, NEWARE, N.J. imates made, and cut stone work of every description ptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &c., No. 266 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court
St. ANDREW G. PAUL, Agent. Buildings piped and fit
ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor TURERS of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Cal or send for Circulars. W. H. KIMBALL, 120 Tremont Street, Boston.

FULLER, DANA, & FITZ, TULLERIS, DANA, & FILL,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Imposters of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of The UNION
IRON MILLS' Solid WROUGHT IRON BRANS, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND YENTILATING APPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 99 Kuby St., Boston

CAPE ANN GRANITE COMPANY

-FurnishGRANITE, BUILDING, AND MONUMENTAL WORK,
ALSO GRANITE PLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTICS: BAT VIEW, GLOUCESTER, MASS.
JOHAS H. FRENCH, Pres.
SCOTT WEBBER, SUPL.

A RCHITECTURAL ORNAMENTS (Sheet

usiness card.
THE KITTREDGE CORNICE AND ORNAMENT CO...

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND Flat Roofs. Only Manufacturers, NEW ENGL.
FELT ROOFING COMPANY, 17 Central Street, Bosto

M. W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES,

117 AND 119 COLERT STREET,

BOSTON,

Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

POTTIER & STYMUS

MANUFACTURING COMPANT

LEXINGTON AVENUE, 41st and 42d Streets, New York.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to First-Proof Construction; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the wordsof one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinct, the best latta ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOTT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

CITY OF PROVIDENCE. — Proposals for a Passenger Elevator. Sealed Proposals for a Passenger Elevator for the new CITY HALL BULDING will be received by the City Hall Commissioners, at their office, No. 8 What Cheer Building, Providence, R.I., until 12 o'clock, w. Oct. 10, 1876.

Oct. 10, 1876.

Oct. 10, 1876.

Oct. 10, 1876.

Lithographed plans of the shaft, space for machinery, &c., will be furnished cond fide bidders on application to the commissioners as above, or to the architect, 8. J. F. Thayer, No. 40 Water Street, Boston.

The bids may be for water or steam power; and each bid must be accompanied by a bond in the sum of \$1,000, that a contract will be signed within thirty days of the reception of bids.

The party to whom the contract may be awarded.

is.

party to whom the contract may be awarded will be
red to furnish a satisfactory bond in the sum of
, for the faithful performance of the contract.

right to reject any or all bids is reserved.

WM. G. R. MOWRY, HENRY G. RUSSELL, WM. M. BAILEY,

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

End Manufacturers.

End Manufacturers.

End Manufacturers.

End Manufacturers.

End Manufacturers.

Special studies and mathematical studies, the study of architectural history, and the constant practice of original design.

Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address WILLIAM R. WARE, ESQ., Professor of Architecture, or Dr. Samuel Kheeland, Secretary.

BOSTON, Feb. 1, 1876.

THE PICTURESQUE ARCHITECTURE

OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantonia Insurgestions to American architects for making country houses picturesque as well as convenient.

JAMES R. OSGOOD & CO., Bostox.

JAMES R. OSGOOD & CO., BOSTON.

YALE LOCKS.

STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY.

HENRY B. TOWNE, President.

Principal Office and Works Stamford, Conn.

ILLUSTRATED CATALOGUES furnished free to Architects on applicat

ART INSTITUTE STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue, BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.



HEADQUARTERS PARLOR GRATES.

MANUFACTURERS

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston



D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash. For Insane Hospitals, Fire Proof Buildings, &c.



Sashes gives perfect security without to that have a prison-like appearance, and both architects and medical superin-The use of the

> D. M. MEEKER & SON. Newark, N.J.

Fine Castings of Mallcable and Gray Iron, German Silver, and Composition; also Patterns a specialty.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary weath-bowl.

This guaranty accompanies every basin sold to our patrons:—

patrons:

We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fuffil the following conditions, provided the trap is kept in running order:

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No sewer gas will escape from the drain or pipe, or any offensive smell arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO..

For descriptive circulars, address
L. S. MOORE & CO.,
40 Oliver Street, Boston.

ART FOLIAGE, By J. K. COLLING. 1 vol.
cularto. 72 plates. \$15.90.

** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE......Boston

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING.

On the first page, and pages next to editorial matter, 12a ents per line (agate), or \$1.75 per inch (fourteen lines) one section.

nertion.

One inch, one month
One inch, three months
One inch, three months
One inch, one month
One inch, one year
One other pages, 10 cents per line each insertion, or \$1.40
er inch.
One inch, one year
One inch, one month
One inch, one months
One inch, one months
One inch, one coult of the period o



PARQUET FLOORS.

The National Wood Manufing Co.

WOOD CARPETING, 950 Broadway, New York.

Brushes for Waxing Floors. National Fine Art Foundery,

218 East 25th Street, New York,
Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses.

John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.





PARLOR GRATES For Health and Comfort Made low or half low down with the celebrated dumping attachment. Can bused for hard or soft coal or wood. The finest assort ment in New England.

H. M. CREAMER. 86 North Street, Boston.
Send for Price List. If
parties are living within five
hundred miles of Boston, it
will pay to call and examine.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Toschi's Engravings. From Frescos Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon,

Fred. Reed.

E. Hixon, jun. \$2.00.



J. & R. LAMB.

59 Carmine St., New York

CHURCH FURNITURE.

Workers in Wood. Metal and Stone for Church purpose sclusively Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decoration 10 cts.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street, BOSTON.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS. No. 94 Water Street, Boston



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices, A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

OPEN TO ENGAGE. - An Architect of OPEN TO ENGAGE.—An Architect of 21 years' experience, who has occupied leading positions in England during the last twelve years, and has acquired some reputation for artistic treatment of Ecclesiastical Gothic Design and Decoration.

English and Canadian references of the highest class.

Address. ARCHITECT

P. O. Box 2844

by Correggio and Parmegiano Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

Ings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia, Two Descons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Chariot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTOR.

HOMES AND HOW TO MAKE THEM. By E. C. GARDHER. Illustrated. 1 vol. square 12mo JAMES R. OSGOOD & CO., BOSTOR.

JAMES R. OSGOOD & CO., BOSTOR.

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

P. TOLMAN & E. A. HUNTING, GENERAL AGENTS, Particular attention given to Repairing and Leasing Estates and the Collection of Rents. MONTGAGES NEGOTIATED. NO. 11 BROMFIELD STREET, BOSTON.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS

A G E N T S.

Boston.—Parsons & Torry, 636 Washingon st; Pitkin Bros. 22 Charlestown st; Allen & Noble, 98 Hanower St; Bogman & Vinal, 7 Dock sq; Farless & Boynton, 13 Cornhull; Gardner & Chandler, 1321 Washington st; B. F. Solomon & Sons, 49 Franklin street.

New York City, —A. Hammacher & Co. 298 Bowery; L. J. Tillottson & Co. 8 Dey st; O. A. Nathusius, 299 Bowery; B. L. Solomon & Sons, 699 Broadway; E. R. Krumm, 121 Essex street; Chae, E. Kugler, 10 Division & C. Speyer Bros., 110 Bowery; W. F. Hubinger, 126 Grand st; C. A. Stuck, 116 Wooster street.

Albany.—Maurice E. Vicle, 41 State st.

Hochester.—Pollock, Weaver, & Co., 17 Buffalo st.
Huffalo.—C. H. Utley, 22 Pearl st.
Philadelphia.—Thomas Thompson, Sons, & Co. 240 S. 24

**I Nobilt, Brown, Nobilt, & Co. 22 S. 24 st; B. L. Middleton, 817

N. 24 st; B. T. Thomas Thompson, Sons, & Co. 240 S. 24

**I Nobilt, Brown, Nobilt, & Co. 22 S. 24 st; B. L. Middleton, 817

N. 24 st; B. T. Thomas Thompson, Sons, & Co. 240 S. 24

**I Nobilt, Brown, Nobilt, & Co. 22 S. 24 st; B. L. Middleton, 817

N. 24 st; B. T. Thompson, Sons, & Co., 240 S. 24

**I Nobilt, Brown, Nobilt, & Co. 22 S. 25 st; B. L. Middleton, 817

N. 24 st; B. T. Thompson, Sons, & Co., 240 S. 24

**I Nobilt, Brown, Nobilt, & Co. 22 S. 24 st; B. L. Middleton, 817

N. 24 st; B. T. Thompson, Sons, & Co., 240 S. 24

**I Nobilt, Brown, Nobilt, & Co. 22 S. 24 st; B. L. Middleton, 817

N. 25 st; B. Co., 81 st; F. A. Bueren, 635 c.

**Pittsburg.—Joseph Woodwell & Co., cor. 24 see, and Woodst.

Hattimore.—C. Sidney Norris & Co., 36 Honover st; John Duce & Sons, 24 South Charles st; Warfield & Bohr, 62 So. Sharp st.

**Cliveland, O.—George Worthington & Co., 30 Water st; Win. Bingham & Co., 148 Wain st; J. L. Wayne & Son, 74 Randolph st; A. A. Ulrich & Co., 16 Piths are: J. L. Midsham, St. A. Lirich & Co., 16 St. James and street.

**Wars Brown, 124 Main st.

**Wars Brown, 12

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

ROLLING SHUTTERS,



STEEL AND WOOD,

Stores, Dwellings, &c.

These prices include the necessary apparatus for working the Shutters, and delivery to ot in New York City.

WILSON & JAMES,

Manufacturers under Patents Nos. 155, 398, and 173, 705, of

68 BEEKMAN ST., NEW YORK.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, WHITE HOLLY, MAHOGANY, THUYA, ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF!





JENNINGS' SPECIALTIES

IN ALL KINDS

PLUMBERS' SUPPLIES,

JENNINGS' PATENT SIX. Jennings' Patent Water Closets, envings: Patent Preson Uninal.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Private Urinals, Private Urinals, Private Urinals, Callston of sever gas), with a large stock of general plumbers' supplies on hand. Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and

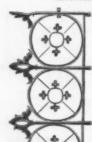
Contractor for the work in Lacinings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

Boston Ornamental Iron Works



WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING,

IRON CRESTINGS,

IRON STABLE FIXTURES,

VASES,

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS HARDWARE

Estimates given on all kinds o Iron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

can be shown tooking much fresher than any other paint of two years.

It emits no poisonous gas like other paints while drying.
Its surface is a perfect enamel, from which any specks of dist wearshy because

It is unequalled for beauty, durability, and economy.
OFFICE AND STORE 145 MILK STREET, BOSTON

ARCHITECTS.

OFFICES OF FRANK W. WESTON, 17 Pemberton Sq. Boston.)
ARCHITECT.
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord. N. H. Offices, 10 Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverbill St., Boston. Posts, Rails, Balusters, & Office Rails, furnished to order

EXAMPLES OF MODERN ARCHITECand others. I vol. quarto. 64 plates. \$15.00.
Containing designs for Churches, Cathedrais, Colleges,
Hails, Railway Stations, Museums, Model Dwellings, Baths, &c.

JAMES R. OSGOOD & CO., BOSTON.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 16mmo. \$1.50.

JAMES R. OSGOOD & CO., BOSTON

Franklin Press: Rand, Avery, & Co., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O.

Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correggio, Co RETNOLDS, GREUZE, LAWRENCE, MURILLO, GERAS HAEL, and other celebrated painters. — forming a sercharming pictures of children and child-life. Quarto loc, \$10.00. JAMES R. OSGOOD & CO., BOSTOS







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 41.]

BOSTON, SATURDAY, OCTOBER 7, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street. Boston. New York. Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, comb

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in il towns where heavy pressures are used; and the case and crtainty with which a joint can be made are great recom-sendations in its favor."—Iros Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in

FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.

—Send for Circulars.—

ROBERT GEMS, Treas.—Sulesroom, 339 Washington St.,

BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.

Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER.

No. 10 JACKSON STREET,

ORANGE, N.J.

P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER, 63 Devonshire Street, Boston

FOR MARBLE FLOORING TILES,

GEO. BARNEY, Swanton, Vt.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY O. HUNT & CO., 45 Arch Street, Boston.

S. A. STETSON & CO., 173 Tremont St.,
Boston, GAS FITTERS. GILT, BRONZE, AND
GLASS CHANDELIERS. Gas Pipe, and Fitting in all its
Branches. Architects, Contractors, and Builders furnished
with the lowest estimates.

GALVANIZED IRON CORNICES, Campbell's Fatent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 837 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern putting NEW YORK. Hollow Blocks of any pattern, uniting rength, and resistance to fire and water. The Hydraulic me of Teil (France), one of the strongest cements known, largely used in this manufacture. The blocks do not nduct heat, cold, or sound, and weigh sixty per cent less an belok.

of partitions, floor arches between iron beams, der wooden or iron beams, in the following

western Union Telegraph,
Del, and Hudson Canal Co.,
Staats Zeitung,
Equitable Life Assarance,
Wilmsb jig Savings Bank,
Westminater Hotel,
Syracuse Savings Bank,
Columbia College,
Hudson R. R. R. Fr'ght Depot,
Lenox Library,
Windsor Hotel,
New York Hospital,
New York Hospital,
Tribune, Peabody Museum.
Hospital Salimore Safe Deposit,
Insurance on Wooden Mansards r. duced ninety cents per
5100. Sidewalks laid at Lenox Library, Tribune, &c. Holiow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS, As laid by us in

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every

part of the Country.
Glazed and Enamelled Tiles for Mantels, Hearths, Wain

oting, &c., and for Exterior Decoration.

MILLER & COATES.

279 PEARL STREET, NEW YORK

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK

ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY.

Works, cor. Pratt and Scott Sts.,

BALTIMORE, MD.

JOHN H. REED & CO.

IRON MERCHANTS

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in

Manufacturers of and Dealers in
smogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig.
and Railroad Iron. Wrought Iron Girder, Channel, and
Deck Beams, Angle and T Iron.Boiler and Tank
Rivets, Lap-Welded Iron Boiler Tubes,
Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS" PATENT" COMBINATION ROPE ELEVATOR,

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. BIGELOW, Treas'r and Gen'l Manager.

HENRY B. JONES & CO. PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

A RUHER & FANCOAST MANDER OF, OC.,
MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,
CHURCH METAL-FURNITURE.

67 Green St.; 68, 70, & 72 Woodfers St., above Brooms, NEW YORK.

63 Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EYERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES
WAREROOMS, No. 597 BROADWAY, NE

ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered with, or cutemne made. Sure thing. WM. A. BARNES, 99 WATER STEERS, BRIDGEFORT, COSN. ELECTRIC

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

FRESCO PAINTERS

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER

No. 17 PEMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

SAYER & FISHER.

ED (Buff to White CTURERS OF LIGHT COLORE PRESSED FRONT BRICE MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

FOR EXTERIOR AND INTERIOR ORNAMENTATION MADE TO ORDER FROM DESIGNS. ALSO, COMMON BUILDING BRICK Works at Sayerville, on Raritan River, N.J.,
Office, Neware, N.J.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
284 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every descriptio
promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858),
ORNAMENTAL EMBOSSED, AND CUT GLASS
FOR HOUSES, STEAMBOATS, RAILROAD CARS
OFFICES, &O., No. 266 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court St. ANDREW G. FAUL, Agent. Buildings piped and fit ted up complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor Grates of every description. The ONLY MANUACTURERS of these goods in New England. No. 11 Marshall Street, Bos on.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughbs, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 129 Tremont Street, Boston.

TULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS. Importers of ROOFING PLATES
AND IRON, USED IN BULLDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"Burden Best" Iron, Tessile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent,

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND WORTHLATING APPARATUS. Gas Lighting Apparatus. Wrought from Pipes and Fittings. No. 99 Kilby St., Boston

CAPE ANN GRANITE COMPANY

GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS.
SIMMONS BUILDING, 40 WATER ST. BOSTON.
QUARTIES: BAY VIEW, GLOCGESTER, MASS.
JONAS H. FRENCH, PROMISSION, SCOTT WEBBER, SUPT.

A RCHITECTURAL ORNAMENTS (Sheet

usiness card.
THE KITTREDGE CURNICE AND ORNAMENT CO.,
Salem. Obic

BEEHIVE BRAND FELT ROOFING for Flat Roofi. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16

POTTIER & STYMUS

MANUFACTURING COMPANY.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which thereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have sto

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

PROPOSALS.

CITY OF PROVIDENCE.—Proposals for a Passenger Elevator. Scaled Proposals for a Passenger Elevator. Scaled Proposals for a Passenger Elevator for the new City Hall Commissioners, at their office, No. 5 What Cheer Building, Providence, R.I., until 19 o'clock, w. October Building, and the order Building, and the october Building, and the support Building, and the october Building, and the october Building, and the october Building, and the support Building, and the october Building, an

of bids.

The party to whom the contract may be awarded will be required to furnish a satisfactory bond in the sum of \$3,000, for the faithful performance of the contract.

The right to reject any or all bids is reserved.

WM. G. R. MOWRY,
HENRY G. RUSSELL,
WM. M. BAILEY,
City Hall Commissioners

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

THE OCCUPATION OF THE PROFESSION OF THE OCCUPATION OF THE PROFESSION OF THE

esign. Special students in Architecture are received into a two-

Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address William R. Ware, Esq., Pro-fessor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.

ART INSTITUTE STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue, BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designe furnished on application.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Dumping and Shaking Grates.

BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

Jan and 42d Streets.

Tuttle & Bailey Registers a speciming.

Can furnish at loncat prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



Fire-Proof Shutters. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

Fire-Proof Lath. In the words of one of the best-known architects of this country. Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron. See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOTT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

JAMES R. OSGOOD & CO., Boston.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash.

For Insane Hospitals, Pire Proof Buildings, &c.



s gives perfect security without have a prison-like appearance. a architects and medical superin-orth. Manufactured by

D. M. MEEKER & SON,

Newark, N.J.

Fine Castings of Malicable and Gray Iron, German Silver, and Composition: also Patterns a specialty.

PROTECT YOUR HOUSES AGAINST Damage by Water, BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our atrons:—

We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fuili the following conditions, provided the trap is kept in running order:

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No swer gas will escape from the drain or pipe, or any offensive smell arise from them.

4th. These bowls will remain free and clear from any tecumulation of soap or grease or other offensive matter in he space between the linner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO.,

40 Oliver Street, Boston.

BURDITT & WILLIAMS.

MANUPACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.

A RT FOLIAGE. By J. K. COLLING. 1 vol.

quarto. 72 plates. \$15.90.

, For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantons. Drawn and engraved by A and E. VARIE. Reproduced by the Heliotype Process. vol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

JAMES R. OSGOOD & CO., BOSTON.

UPS AND DOWNS ON LAND AND

WATER. Oblong follo. \$10.00.
"Turning over these pages is like gathering around a fireside to listen to the bright and entertaining stories of a friend
who has travelled and kept his eyes well open. Only Mr. Hoppin's pencil is more elequent and witty than most men's tongues."—Boston Journal.

JAMES R. OSGOOD & CO., BOSTON.

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO., WINTHBOP SQUARE Boston

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING

On the first page, and pages next to editorial matter, 12} ints per line (agate), or \$1.75 per inch (fourteen lines) one

per inch.
One inch, one month \$5.60
One inch, three months 16.00
One inch, nine months 46.00
One inch, one year 58.01
Oo extra charge for cuts, or for advertisements that or more than one column in width.



PARQUET FLOORS.

The National Wood Manufing Co.

WOOD CARPETING. 950 Broadway, New York. Send Three-Cent Stamp for Desi Brushes for Waxing Floors. or Designs

National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings,

Monuments, and Altars. Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT,

General Agt., 265 Broadway, N.Y.





PARLOR GRATES

H. M. CREAMER,

86 North Street, Boston

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON

E. Hixon.

E. Hixon, jun.

J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

kers in Wood, Metal and Stone for Church purposes

Illustrated Catalogues Post Free.

ood Work | Metal & Stone Work | Banners & Decorations
10 cts. 10 cts.

E. & G. G. HOOK & HASTINGS.

Builders of

CHURCH ORGANS

1131 TREMONT ST., Boston.

Architects desiring information connected with our art, are invited to confer with us.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Bo

A. J. BICKNELL & CO.,
ARCHITECTURAL BOOK PUBLISHERS,
27 WARREN STREET, NEW YORK.



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile. American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston

OPEN TO ENGAGE. - An Architect of OFEN TO ENGAGE.—All Architect of 21 years' experience, who has occupied leading posi-tions in England during the last twelve years, and has acquired some reputation for artistic treatment of Eccle-slastical Gothic Design and Decoration.

English and Canadian references of the highest class.

Address, ARCHITECT,

P O. Box 2843.

WANTED. One set English "Building News" for 1873, 1874, and 1875, unbound. Address, stating price, BUILDING NEWS, 235 East 27th St., New York.

TOSCHI'S ENGRAVINGS. From Frescos

TOSCHI'S ENGRAVINGS. From Frescos by Corregoio and Parmegiano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia. Two Deacons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Charlot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., Boston.

Produced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest," "The Monarch of the Glen," "High Life," "Low Life," "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty, Quarto. Price, \$10.00. Glen, "Bus and Ware," and Values William Shoeing the Bay Mare, "Shoeing the Bay Mare, "Shoe

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMBRIC-DAVID, member of the Institute of France.

This volume contains twenty-four Flates, reproduced in advantable success by the Heliotype Production of the Principle of the Principle Successive Control of the Principle Successive Control of the Principle Successive Control of the Principle Out of the Principle Successive Control of the Principle Succes

LIENARD'S DECORATION AND ORNA-IENARD'S DECURATION AND ORNAMENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By Liexard.
Reproduced by the Heliotype Process. Upwards of 120
designs, rich in hints to Architects and Decorators. I vol.
folio, boards, \$27.00. Half morocco, cloth sides, \$30.00.

JAMES R. OSGOOD & CO., BOSTON.

HOMES AND HOW TO MAKE THEM.
By E. C. Garder, Illustrated. I vol. square 12mo
MORTGAGES AEGOTIATED. NO. 11 BROMFIELD
\$2.00. JAMES R. OSGOOD & CO., BOSTON.
STREET, BOSTON.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

Duer & Sons, 24 South Charles st; Warfield & Bohr, 62 So. Sharp st.
Cleveland, 0. — George Worthington & Co. 90 Water st;
Nm. Bingham & Co. 148 Water st.
Clinelinand & Co. 148 Water st.
Clinelinand & Co. 148 Water st.
Wayne & Son. 124 Main st.
Chicago. — 124 Wayne & Son. 74 Randolph st; A. A. Ullrich
Chicago. — 124 Wayne & Son. 74 Randolph st; A. A. Ullrich
Detroit. — 124 Wayne & Son. 74 Randolph st;
K. Louis. — 125 Wayne & Co. 180 Woodbridge strees.
St. Louis. — Geo. A. Rubelmann & Co. 180 Woodbridge strees.
St. Louis. — Geo. A. Rubelmann & Co. 82 N. 64h st.
Washington. — F. P. May & Co. 614 Pennsylvania evenue.
San Francisco. — B. L. Solomon & Sons, 410 Market street.
Montreal. — James Walker & Co. 163 St. James st.
Quebec. — S. J. Shaw & Co., 78 L. John st.
Ramilton, Ont. — Watson & Thompson, 16 McNab st.
Sg? Our goods can be purchased of the above Agents at the
ame prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



ROETH & MAY, FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

TWO PRIZE MEDALS.

ROLLING WOOD SHUTTERS

se shutters unlike all others are made without webbing or leather bands, the slats connected entirely by bands of steel. They are the best and cheapest shutters in g connected entirely by bands of sicel. Inny are the proof, are also offered at market.

Market ROLLING STEEL SHUTTERS, fire and burglar proof, are also offered at Pre Post.

eel Shutters from
lack Walnut Shutters from
hite Pine Shutters from.
Rolling Venetian Shutters, at same prices. Liberal discount to the
outs, hot water and steam heating, and all iron work for buildings.

WILSON & JAMES, 68 Beekman St., New York.

YALE LOCKS, "STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY. HENRY R. TOWNE, President.

Principal Office and Works Stamford, Conn. Salesroom No. 53 Chambers St., New York.

ILLUSTRATED CATALOGUES furnished free to Architects on application.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, WHITE HOLLY. MAHOGANY. THUYA. ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Bowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

ARCHITECTS

OFFICES OF FRANK W. WESTON, 17 Pemberton Sq. Boston.)
ABCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

IRON CRESTINGS, CHARLES D. WOODBERRY, Architect, JOS. E. BILLINGS, Architect, 33 School

VASES, DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square.

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord, N. H. Offices, 10 Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverbill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

EXAMPLES OF MODERN ARCHITECand others. Ivol. quarto. 64 plates. \$15.00.
Containing designs for Churches, Cathedrais, Colleges,
Halls, Railway Stations, Museums, Model Dwellings, Baths,
&c.

an be shown looking much freamer than any other paints while drying, for years.

It emits no poisonous gas like other paints while drying, it is unequality to a perfect enamel, from which any specks of its surface is a perfect enamel, from which any specks of its unequality be removed.

It is unequality for bandy, durability, and economy.

It is unequality for bandy, durability, and economy.

It is unequality for bandy, durability and economy.

James R. OSGOOD & CO., Boston of the control of the

Franklin Press: Rand, Avery, & Co., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.







JENNINGS' SPECIALTIES



JENNINGS' PATENT SIX. JOHNINGS' PATENT WATER CLOSES JENNINGS PATENT PERSON URINAL.

Patent Siop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the poculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS, C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings. No. 170 Tremont St., Boston.

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Correction, Collett, Reynolds, Gretze, Lawrence, Muelllo, Gerard, Raphael, and other celebrated painters, -forming a series of charming pictures of children and child-life. Onavia



Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF
WROUGHT AND CAST IRON

For Building

IRON AND WIRE RAILING,

IRON STABLE FIXTURES,

GARDEN STATUARY.

WEATHER VANES, AND

BUILDERS' HARDWARE.

Estimates given on all kinds o Iron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

It is unequalled for beauty, durability, and economy.
OFFICE AND STORE 145 MILK STREET, BOSTON



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 42.]

BOSTON, SATURDAY, OCTOBER 14, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Wainut Street, | Boston. | New York. | Philadelphia.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, com

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS

TATHAM & BROS., 88 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the case and certainty with which a joint can be made are great recommendations in its favor." — Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circulus.—
BOBERT GEMS, Treas.—Selesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,
QUARTYMBR, and Wholesale Dealer in
BUILDING STONE,
OHIO STONE, FROM BELLIN, AMPREST, AND BEREA QUARRIES.

Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOE CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

No. 10 JACKSON STREET,

ORANGE, N.J. P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS, SPEAKING TUBES.

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE. S. W. FULLER

63 Devonshire Street, Boston

FOR MARBLE FLOORING TILES,

GEO. BARNEY, Swanton, Vt. BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

S. A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

CALVANIZED IRON CORNICES, OFFICE, CAMPBEL'S PATENT VENTILATING SKYLIGHTS, Campbel's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 381 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulio Lime of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

conduct heat, cold, or sound, and weigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, cellings under wooden or iron beams, in the following

cellings under wooden or iron beams, in the following buildings:—
Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Hudson R. B. E. Fr'ght Depot, Wil'mab gh Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baltimore Safe Depoit, Insurance on Wooden Mansards: A dueed ninety cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Holow Bricks of aik kind. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWIFH.

tests.

LEONARD F. BECKWITH, President
Office, 111 Broadway, N.Y.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Tremont Street, Boston.

Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.

Charles Whittien, Pres. James Sturgis, Treas.

MINTON'S TILES. Established 1794.

ALSO THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES.

T. ASPINWALL, Sole Agent, 33 MURBAY STREET, NEW YORK.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK

ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
ILEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY. Works, cor. Pratt and Scott Sts., Baltimore, Mp. Office 24 Light St.,

JOHN H. REED & CO.

AND AGENTS FOR BAY STATE IRON COMPANY.

Manufacturers of and Dealers in geneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, at Deck Beams, Angle and T Iron, Boiler and Tank Rivets, Lup-Weided Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

The only safe and reliable machine made for Passen; in Public Buildings and Hotels, and for business purp Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 229 Broadway, New York.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES,

CRYSTAL CHANDELIERS, FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE. 67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOMS, NEW YORK.

83° Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WARROOMS, No. 597 BROADWAY, NEW YORK.

LECTRIC ANNUNCIATORS, DOOR LAND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given if wire is cut or tampered this, or entrance made. Sure thing. W.M. A. BARNES, 59 Water Stream, Briddeport, Comm.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

FRESCO PAINTERS

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PRIMBERTON SQUARE,

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS.
No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.
WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
Boston.

L. A. Bigslow.

Treas'r and Gen'i Manager.

WARNER BAILEY, Sign and Ornamental
Painter, & Merrimae Street, Boston.

BUILDERS' SUPPLIES.

SAYER & FISHER.

PRESSED FRONT BRICK

MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.
Works at Sayerville, on Raritan River, N.J.,
Office, NEWARK, N.J.

POTTIER & STYMUS

MANUFACTURING COMPANY.

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY. LEXINGTON AVENUE, 41st AND 42d STREETS, NEW YORK.

MONS. C. J. SOYARD, formerly 12 West Mantels, assigner and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MAKER TERMONT. BOSTON.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.

164 TO 270 PASSAIC STREET, NEWARE, N.J. timates made, and cut atone work of every description optly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858), ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &c., No. 256 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE, and make your own gas. Boston Office, 117 & 119 Court ANDREW G. PAUL, Agent. Buildings piped and fit-p complete. Send for circular.

MURDOCK PARLOR GRATE CO. Parlor TURERS of these goods in New England. No. 11 Marshall Street, Boston.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

DANA, & FITZ, P 110 NORTH STREET, BOSTON.
METAL MERCHANT'S, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
TRON MILLS' Solid WROUGHT IRON BRAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA AN NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND WROUGH TON GAPPARATUS. Gas Lighting Apparatus, Wrought fron Pipes and Fittings. No. 69 Kibly St., Boston

GRANITE COMPANY CAPE ANN —Furnish—
GRANITE, BUILDING, AND MONUMENTAL WORK
ALSO GRANITE FLAGGING & PAVING BLOCKS
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTIES: HAY VIEW, GLOUGESTER, MASS.
JONAS B. FRENCH, Fres.
SCOTT WEBBER, SUPL.

A RCHITECTURAL ORNAMENTS (Sheet Metal). New Catalogue free to all Architects. Send business card.
THE KITTREDGE CURNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
111 AND 119 COURT STREET,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

MASS. INSTITUTE OF TECHNOLOGY.

tional training for Chemista, Metallurgists, Civil, Mechanical, and Misling Engineers, Architects, Teachers of Science,

and Manufacturers, Architects, Teachers of Science, THE COURSE IN ARCHITECTURE embraces, besides the ne-cessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

ial students in Architecture are received into a two

Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address WILLIAM R. WARR, Esq., Pro-fessor of Architecture, or Dr. Samuel Kheeland, Secretary. Boston, Feb. 1, 1876.

HOMES AND HOW TO MAKE THEM. JAMES R. OSGOOD & CO., BOSTON.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIEK-PROOF CONSTRUCTION; and they now invite the cor-respondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have sto fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of salffness, maximum of clinch; the best lath ever made, either wood or fron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspec-tion construction plans and estimates for any specific work

PROPOSALS.

VENTILATING. — Sealed Proposals for providing and fixing heating and ventilating apparatus will be received by the Board of New City Hall Commissioners for the city and county of 8an Francisco, in the room of the Board of Supervisors, comer of Leavenworth and Mc-Allister Streets, between the hours of 12 noon and 1 o'clock, P.M., of Monday, Oct. 23; 1876. Proposals to be in accordance with the plans and specifications to be seen at the office of the Secretary, where forms of proposals and bonds will be furnished to intending bidders. The work to be completed in Hall of Records in fourteen weeks, and the whole work to be completed in the east wing of the Main Building in aine months, commencing from the day on which the contract is ready for the contractor's signature. No bids will be entertained unless made on blanks to be furnished by the Secretary of the Board, and accompanied by a bond with two or more good and efficient surelies, in a sum equal to ten per cent of the total sum of the tender, conditioned for the due entering into the contract by the bidder, if the confort of New City Hall Commissioners to be delivered to said Board whilst it is in session, and within the hour above per cent of the estimated amounts due, and the remaining twenty-five per cent when the contract is completed. Payments will be made monthly, of seventy-deper event of the estimated amounts due, and the remaining twenty-five per cent when the contract is completed. Payments to be made in ninety per cent gold and ten per cent any or all bids.

A. J. Bryant, Geo. F. Maynard, W. C. Burnett, Board of New City Hall Commissioners reserve the right to reject any or all bids.

A. J. Bryant, Geo. F. Maynard, W. C. Burnett, Board of New City Hall Commissioners for the City and County of San Francisco.

GEO. W. THOMAS, Secretary.

HOSPITAL. — Sealed Proposals will be received at the office of the Chief Quarta master, Department of the South, Louisville, Ky., and also at the office of the Post Quartermaster, St. Augustine, Fla., until 12 o'ciock, M., Oct. 28, 1876, at which time and places they will be opened in presence of bidders, for the construction at 8t. Augustine, Fla., of a Hospital Building, in accordance with plans and specifications, which may be seen upon application at the offices of the Chief Quartermaster, Department of the South, Louisville, Ky.; the Depot Quartermaster, decressor with, Ind.; and the fost Quartermaster, between the confess of the Chief Quartermaster, between the confess of the contraction of the contract of the contract of the price for which the building will be erected complete; and each proposal will be accompanied by the usual guaranty for the faithful performance of the contract, which will be awarded to the lowest responsible bidder. The Government, however, reserves the right to reject any or all bids.

JAMES A. EKIN, Pepuly Q. M. General, U. S. A.

IRON BRIDGE, — Sealed proposals will be GEO. W. THOMAS, Secretary.

JAMES A. EKIN, Deputy Q. M. General, U. S. A.

IRON BRIDGE. — Sealed proposals will be received until Monday, Oct. 23, 1876, at 12 o'clock noon, for the Iron superstructure of the north approach to the Ohio River Bridge, Cinclinnati Southern Railway, as follows: — Three through spans of onearly 196 feet each. One through spans of 118 feet.

The above spans are partly on a three-degree curve, and more or less on a skew.

Plans, strain sheets, and specifications can be seen at No. 19 West Third Street, Cinclinnati.

Of Trinted forms must be used, and directed to the Board of Trinteds for the Cinclinnati Southern Railway, No. 70 West Third Street, Cinclinnati, O. The Board reserves the right to reject any or all bids. Ry order of the Board.

MILES GREENWOOD, President.

GAS SUPPLY. — Scaled proposals will be one o'clock, r.m., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-dive years, from the 16th day of May, 1878, with a first-rate quality of illuminating gas, both for public and private consumption, the party contracting to have the exclusive right of supplying all gas to be used in the city, public and private during the term of twenty-five years. The present requirements are a supply for see street lamps and the average demanders the term of twenty-four hours. The sublic lamps must be kept burning from twillight in the evening till dawn of day in the morning. The bids should state the price for gas supply, and also the price for fighting, cleaning, and keeping in repair the street lamps and also the price for gas upply, and also the price for fighting, cleaning and keeping in repair the street lamps and also the price for gas supply, and also the price for fighting of the bids must be accompanied by a good and sufficient bond in the sum of \$10,000, to be forfeired in case the party should fall to enter into contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council.

FRED FREARICK Comstroller of City of Quincy, ill-This guaranty accompanies every basin sold to eur wash-bowl. This guaranty accompanies every basin sold to eur wash-bowl and also the price per 1,800 feet to be paid by privace of the paid by the authorities of the city of Quincy. By order of the City Council.

FRED REARICK, Comptroller of City of Quincy, III.

DREDGING. — Proposals for Dredging and Embanking in Appomattox River, Virgina, will be received the paid by the authorities of the city of Quincy, III.

DREDGING. — Proposals for Dredging and Embanking in Appomattox River, Virgina, will be received the privace of the paid by the authorities of the city of Quincy. III.

DREDGING. — Proposals for Dredging and Embanking in Appomattox River, Virgina, will be received the sealed by the authorities of the city of Quincy. III.

DREDGING. — Proposals for Dredging and Embanking in Appomattox River, Virgina, will be received the paid by the authorities of the city of Quincy. III.

All the warrant out expense to them, immediately decreased in case of stoppage.

Id. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occur.

3d. No overflow or leakage of any kind will occu

PROPOSALS.

HARBOR IMPROVEMENT. - Proposals ARBOR IMPROVEMENT. — Proposals for continuing work for contraction of the New Indet. Cape Fear River, N. C., and for furnishing and delivering stone on government lighters, either at the iniet, or at the quarries on the river, accessible to tug-boats, will be received at the United States Engineer Office, Baltimore, Md., until noon of Oct. 18, 1876, and opened immediately thereafter. Blank forms, specifications, &c., can be had thereafter. Blank forms, specincations, &c., can be important this office.

WM. P. CRAIGHILL, Major of Engineers, U. S. A.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash.

For Insane Hospitals, Pire Proof Buildings, &c.



e gives perfect security withous have a prison-like appearance, architects and medical superin-orth. Manufactured by

D. M. MEEKER & SON,

Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver, and Composition; also Patterns a specialty.



HEADOUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Low-dow

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty. Can furnish at lowest prices to the trade It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

YOUR HOUSES

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

. The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our patrons:—

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.



PARQUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

950 Broadway, New York. Send Three-Cent Stamp for Designations for Waxing Floors.

National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

The Rogers Patent Wooden Houses. John W. Marshall, ARCHITECT,

General Agt., 265 Broadway, N.Y.



PARLOR GRATES

For Health and Comfo Made low or half low do with the celebrated du-ing attachment. Can used for hard or soft co or wood. The finest ass-ment in New England.

H. M. CREAMER,

86 North Street, Bosto Send for Price List. If parties are living within five hundred miles of Boston, it will pay to call and examine.

EDWARD HIXON & CO.,

IMPORTERS OF

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON. Fred. Reed,

E. Hixon, jun





J. & R. LAMB,

39 Carmine St., New York.

CHURCH FURNITURE,

Workers in Wood, Metal and Stone for Church purposed clusively. Polished Brass and Sterling Silver. Illustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decorations 10 cts. | 10 cts.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Bress Hardware manufactured to order from our own patterns, or from architects' drawings. order from death of the control of t



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston,

Upholstery Goods, Trimmings, and
Looking Glasses,

AND MANUFACTURES OF

ENGRAVINGS FROM LANDSEER. Re-PAGINAVIAGOS FIVOM LANDSEER. Reproduced in ticliotype, with a Sketch of the Life and Works of the Arlist. Twenty-four Plates, reproducing with the utmost fieldity some of the most famous of Landseer's Chillings The Challenge. The Children The Chi

PAPHAEL PICTURES. A Series of Rephael. With Historical and Critical Notes by M. T. B. Sanhael. With Historical and Critical Notes by M. T. B. Sanhael. With Historical and Critical Notes by M. T. B. Sanhael. With Historical and Critical Notes by M. T. B. Sanhael. With Historical Indiana Company of the Constant of the Pish. This volume contains twenty the Process. The aublects represented are "The Visitation." The Holy Family "(two groups), "The Madonna of the Fish." and "The Bearing of the Cross. "Quarto. Price, \$10.00.

LIENARD'S DECORATION AND ORNAMENTATION. Specimens of the Decoration and Ornamentation of the Nineteenth Century. By Lienards of 120 dealgns, rich in hints to Architects and Decorators. I vol. folio, boards, \$27.90. Half morocco, cloth sides. \$30.00.

JAMES R. OSGOOD & CO., Boston.

A RT FOLIAGE. By J. K. Colling. 1 vol. quarte. 72 plates. \$15.00.

**For sale by Bookelers. Fent postpaid, on receipt of price, by the Publishers,
JAMES R. OSGOOD & CO., Boston.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

A G E N T S.

Boston.—Parsons & Torry, 636 Washingon st; Pitkin Bros. 23 Charlestown st; Allen & Noble, 36 Hanover st; Bogman & Vinal, 1 Dock st; Farless & Bogmon & Vinal, 1 Chock st; Farless & Bogmon, 13 Cornhill; Gardner & Chandler, 132! Washington st; B. L. Solomon & Sons, 46 Franklin street.

Providence, R. L. Belcher Bros. 77 Weyboset st.
New York Clty.—A. Hammacher & Co., 200 Bowery; L. J. Tillottosha & Os. 8 by st; O. A. Nathusius, 272 Bowery; B. L. Solomon & Sons, 508 Broadway; E. R. Krumm, 12! Essex street; J. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowery; W. F. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowery; W. F. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowery; W. F. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowery; W. F. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowery; W. F. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowers; W. F. Hubinger, 196 Grand et al., C. S. Septer Bros. 110 Bowers; W. F. Hubinger, 196 Bowers; W. F. Hubinger, 196 Bowers; W. S. Septer Bros. 110 Bowers; W. S. Solomon & Sons, 31 N. 2d st; F. A. Buereni & S. E. Buuphin et; Thomas Knight & Co., Cor. Ridge ave, and Green st. Pittsburg.—100 Bowers; W. S. Scholmon & Co., 200 Water st; W. Bingham & Co., 148 Water st.

Clinchmatt, —Giacacher & Kuhlman, 534 Main st; J. L. Wayne & Son, 124 Main st.

Duer & Sonn, 24 South Charles at, Warfield & Bohr, 62 & S. Sharp et.

Cleveland, 6. — George Worthington & Co., 99 Water at;

Wm. Bingham & C., 148 Water at.

Clneinnatt. — Glaeceler & Kuhlman, 534 Main at; J. L.

Wayne & Son, 124 Main at.

Chicago, — J. L. Wayne & Son, 74 Randolph at; A. A. Ullrich

Co., 16 Fifth ave; J. Liebenstein & Co., 22 Randolph at.

Betroit. — Buhl, Ducharme, & Co., 168 Woodbridge street.

St. Louis. — Geo. A. Rubelin ann & Co., 87 N. 6th at.

St. Louis. — Geo. A. Rubelin ann & Co., 87 N. 6th at.

St. Louis. — Geo. A. Rubelin ann & Co., 87 N. 6th at.

St. Louis. — Geo. A. Rubelin ann & Co., 87 N. 6th at.

St. Louis. — Geo. A. Rubelin ann & Co., 87 N. 6th at.

St. Louis. — Geo. A. Rubelin ann & Co., 80 N. 6th at.

St. Louis. — Geo. A. Rubelin ann & Son, 40 Market street.

Montreal. — James Walker & Co., 168 St. James at.

Montreal. — James Walker & Co., 168 St. James at.

Hamilton, Ont. — Watson & Thompson, 16 McNab at.

237 Our goods can be purchased of the above Agents at the same prices and terms as of us.

WILLIAM B. GLEASON & CO., West Camden Street (Opposite Chickering Station), BOSTON, MASS.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.

OPEN TO ENGAGE.—An Architect of 21 years' experience, who has occupied leading-positions in England during the last twelve years, and has acquired some reputation for artistic treatment of Ecclesiastical Gothic Design and Decoration.

English and Canadian reference Address, ARCHITECT ences of the highest class

WANTED. One set English "Building News" for 1873, 1874, and 1875, unbound. Address, stating price, BUILDING NEWS, 235 East 27th St., New

TOSCHI'S ENGRAVINGS. From Frescos by Corrected and Parametrano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Paramegiano's Saint Agatha, Saint Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Correggio's Freecos, it includes the Madonna delia Scala, Diana in a Charlot, The Coronation of the Virgha, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., Bostros.

TWO PRIZE MEDALS.

ROLLING WOOD SHUTTERS

e shutters, unlike all others, are made without webbing or leather nnected entirely by bands of steel. They are the best and ches narket.
proved BOLLING STEEL SHUTTERS, fire and burglar proof, are all cod rates.

WILSON & JAMES, 68 Beekman St., New York.

YALE LOCKS. "STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY. HENRY R. TOWNE, President.

Principal Office and Works Stamford, Conn. Salesroom No. 53 Chambers St., New York. ILLUSTRATED CATALOGUES farnished free to Architects on appr

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, WHITE HOLLY, MAHOGANY, THUYA, ROSEWOOD, etc.,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

cheapest son Canal Building, and canal Building, in daily use in every

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF! JENNINGS' SPECIALTIES IN ALL KINDS

PLUMBERS' SUPPLIES

JENNINGS' PATENT SIX- JOHNINGS' PATENT WATER CLOSETS, ENNINGS' PATENT

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, Patent Latrines, and other specialties (the peculiarity of all of which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Mar Manufacturer of Fine Furniture, and Importer of vare Etchings and Engravings.

No. 170 Tremont St., Boston.

Boston Ornamental Iron Works



For Building IRON AND WIRE RAILING, IRON CRESTINGS, IRON STABLE PIXTURES.

FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILE STREET, BOSTON.



ASAHEL WHEELER'S CONSTANT WHITE PAINT

It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, 17 Pemberton & BARD. 17 Pemberton & Boston.) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-PHENSON, Architects, 10 Pemberton Square. L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Beston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order.

EXAMPLES OF MODERN ARCHITEC-and others. I vol. quarto. 64 plates. \$18.00. Containing designs for Churches, Cathedrais, Colleges, History, Cathedrais, Colleges, Cathedrais, Colleges, Baths, Sallway Stations, Museums, Model Dwellings, Baths, &c.

MABEL MARTIN. A Harvest Idyl. By
JOHN G. WHITTIER. Popular Edition. 21 Illustrations. How.
STORE 16 MILK STREET, BOSTON

Franklin Press: Rand, Avery, & Co., Boston,

All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c. -AND-

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Corresgio, Corley, Reynolds, Lawrence, Munillo, Gerard, Raynolds, and other celebrated painters, -forming a series of charming pictures of children and child-life. Quarto. Price, \$40.69. James E. OSGOOD & CO., Boston.





A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 43.7

BOSTON, SATURDAY, OCTOBER 21, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Wainut Street, | New York. | Philadelphia.

TIN-LINED IRON PIPE.

A PURE BLOCK-TIN PIPE Incased in a wrought-iron tube, combining

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS., 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless weven, and able to withstand immense
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholes le Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES. Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACKSON STREET.

ORANGE, N.J.

P. O. Box 621.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings

THE BEST IN USE.

S. W. FULLER, 63 Devonshire Street, Boston

FOR MARBLE FLOORING TILES, GEO. BARNEY, Swanton, Vt.

BELTING FOR ELEVATORS, HOSE OF Linen, Leather, and Rubber. HENRY C. HUNT & CO., 45 Arch Street, Boston.

S. A. STETSON & CO., 173 Tremont St., S. Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELLERS, Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished

GALVANIZED IRON CORNICES, Campbell's Patent Chimney Jacks, Window Caps, &c. 6MITH & VAN NORDEN, \$37 Harrison Avenue, Boston.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Lime of Tell (France), one of the strongest coments known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent l.ss than brick.

HIGH-PROOF BUILDING CO. OF MANUFACTURERS OF ALL KINDS OF MANUFACTURERS OF ALL KINDS OF MANUFACTURERS OF ALL KINDS OF

conduct real, vol., containing the second real form of the following fire-proof partitions, floor arches between iron beams, in the following ceilings under wooden or iron beams, in the following

wildings:
Wistern Union Telegraph,
Del. and Hudson Canal Co.,
Equitable Life Assurance,
Wil mas big Navings Bank,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Battimore Savings Bank,
Columbia College,
Syracuse Savings Bank,
Syracuse Savings Bank,
Columbia College,
Syracuse Savings Bank,
Syracuse Savings Bank,
Columbia College,
Syracuse Savings Bank,
Columbia College,
Syracuse Savings Bank,

Office, III Broadway, N.Y.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS.

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Tremont Street, Boston.

Office in the New England Mutual Life Insurance Co's, Building, Post Office Square,
CHARLES WHITTIER, Pros. JAMES STURGIS, Treas.

MINTON'S TILES. Established 1794.

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES.

T. ASPINWALL, Sole Agent, 38 MURRAY STREET, NEW YORK.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK, ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER A SPECIALITY. Works, cor. Pratt and Scott Sts., BALTIMORE, MD. Office 24 Light St.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in nogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. nd Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron,Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

only safe and reliable machine made for Passenger use ablic Buildings and Hotels, and for business purposes in thouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 229 Broadway, New York.

OTIS TUFTS, President.

L. A. Bigslow, Treas'r and Gen'l Manager.

BUILDERS' SUPPLIES.

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

A TANUAL MANUAL MANUE. CO.,

MANUACTURES OF
GAS FIXTURES AND ORNAMENTAL BEONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,
AND
CHURCH METAL-FURNITURE.
67 GREEN St.; 45, 70, & 72 WOOSTER St., ABOYE BROOME,
NEW YORK.

Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.
ALSO GAS FIXTURES.
WAREROOMS, No. 597 BROADWAY, NEW YORK.

ELECTRIC ELECTRIC ANNUNCIATORS, DOOR AND CALL BELLS, FIRE AND BURGLAR ALARM TELEGRAPH. Watches isolated buildings perfectly. Wire to sleeping room. Alarm given If wire is cut or tampered the or cutrance made. Sures thing. WM. A. BARNES, 89 WATER STREET, BRIDGEFORT, CORK.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 517 Washington St., BOSTON.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
No. IR RESCO PAINTER,
No. IS SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES

FULLER, DANA, & FITZ, A 110 NORTH STREET, BOSTOK.
METAL MERCHAN'IS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDEN BRST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent,

WALWORTH MANUFACTURING CO., STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS. Gas Lighting Apparatus, Wrought Iron Pipes and Fittings. No. 66 Kilby St., Boston

CAPE ANN GRANITE COMPANY

PRINTIES

GRANITE BUILDING, AND MOSUMENTAL WORK.

ALSO GRANITE FLAGGISO & PAYING BLOCKS,
SIMMONS BUFFER ST. BOSTON.

QUINTIES BAY VIEW, GLOUCESTER, MASS.

JOHAS H. FRENCH, PRINTING PRI

A RCHITECTURAL ORNAMENTS (Sheet THE KITTREDGE CORNICE AND ORNAMENT CO.,

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO. F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at
Wholesale Prices HAWTHORNE & TUCKER, 16
Province Street, Boston.

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)
PRESSED FRONT BRICK.

MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

FOR EXTERIOR AND INTERIOR ORNAMENTATION MADE TO ORDER FROM DESIGNS. ALSO, COMMON BUILDING BRICK. Works at Sayerville, on Baritan River, N.J., Office, NEWARE, N.J.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION, 2 "A" BEACON STREET, MEAR TREMONT, BOSTON.

HENRY B. JONES & CO. PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
284 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

MURDOCK PARLOR GRATE CO. Parlor THE Grates of every description. The ONLY MANUFACTURERS of these goods in New England. No. 11 Marshal Street. Bos on.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILFOAD CARS, OFFICES, &C., No. 26 West 14th St., New York.

BUY A SPRINGFIELD GAS MACHINE. and make your own gas. Boston Office, 117 & 119 Court
St. ANDREW G. PAUL, Agent. Buildings piped and fitted up complete. Send for circular.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and acapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

PROPOSALS.

PROPOSALS FOR MATERIALS TO BE SUPPLIED TO THE NAVY YARDS UNDER THE COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

NAVY DEPARTMENT,

BURRAU OF CONSTRUCTION AND REPAIR,

Sealed proposals to furnish timber and other materials to the Navy for the fiscal year ending Jame 30, 1877, will be received at this Bureau until twelve o'clock, its of hursday, Nov. 16, 1876, at which have o'clock its of hursday, Nov. 16, 1876, at which have o'clock its of hursday, Nov. 16, 1876, at which have o'clock its of hursday, Nov. 18, 1876, at which have o'clock its o'f hursday, Nov. 18, 1876, at which have o'clock its o'f hursday, Nov. 18, 1876, at which have o'clock its o'f hursday, Nov. 18, 1876, at which have o'clock its o'clo

dors.d with the name of the yard for which the bid is made.

Printed schedules for such classes as parties deal in and intend to bid for, together with instruction for bidders, giving the firms of proposal, of guarantee, and of certificate of guaranters, with printed forms of ofter, will be furnished to such persons as desire to bid on application to the Commandant of the respective Navy Yards, and those of all.

The Commandent of each Navy Yard, and the purchasing Faymaster for each station, will have a copy of the schedules of the other yards, for examination only, in order that persons who intend to bid may judge whether it is desirable to make application for any of the classes of those yards.

that persons who intend to bid may judge whether it is designated to make application for any of the classes of those classical to make application for any of the classes of those and the proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class, should the interest of the Government require it, before the execution of the contract. All applications for information, or for the examination of samples, must be made to the Commandants of the respective yards.

Bids or offers will be received only from parties who are bond fide dealers in, or manufacturers of, the articles they offer to furnith. The guarantors must be certified by the Collector of Internal Revenue for the district in which they reside.

The contract will be awarded to the person who makes the lowest bid and gives the guarantee required by law, the Navy Department, however, reserving the right to reject the lowest bid, or any which it may deem exortified to the lowest bid, or any which it may deem exortified to the provisions of Section 3,722 of the Revised Statues, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received.

Sureties in the full amount will be required to sign the contract, and their responsibility must be certified to the satisfaction of the Navy Department.

As a ditional security, twenty per centum will be withheld from the amount of the bills until the contracts shall have been completed, and eighty per centum of the amount of each bill, approved in triplicate by the Commandants of the respective vards, will be paid by the Paymaster of the station designated in the contract, or, if none is specified, by the Paymaster of the station designated in the contract, or, if none is specified, by the Paymaster of the station designated in the contract or, if none is specified, by the Paymaster of the Station designated in the contract or, if none is specified, by the Paymaster of the station designated

the goods are derivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

The classes of this Bureau are numbered and designated as follows.

The classes of this Bureau are numbered and designated as follows.

White Oak Logs; No. 13, White Pine Plank.

Boords; No. 16, White Ash Oars; No. 22, Cypress, Cedar; No. 24, White Oak Staves and Headings; No. 25, Lignum-vine; No. 35, Steel; No. 84, Iron, Frought Nalis; No. 89, Iron Cut Nails; No. 84, Log. No. 48, Locks, Hunges, Bolts, of brass and iron; No. 49, Serews, of brass and iron; No. 59, Files; No. 51, Augers; No. 52, Tools for ship stores; No. 53, Tools for use in yards and shops; No. 54, Hardware; No. 58, White Lead; No. 57, Zine Planit; No. 58, Colored Paints, Dryers; No. 59, Linseed Oil; No. 60, Varnish, Spirits Turpentine; No. 63, Sperm and Lard Oil; No. 64, Tallow, Soan; No. 65, Fish Oil; No. 66, Glass; No. 69, Brushes; No. 79, Dry Goods for upholstering; No. 71, Nationery; No. 72, Crucibles; No. 74, Ship Chandery; No. 73, Holding, Fatking; No. 78, Leather; No. 89, Charceal; No. 89, Wood.

PORTSMOUTH.

73, 75, 77, 78, 88.

WASHINGTON.

No. 22, 39, 48, 49, 59, 51, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 72, 73, 74, 75, 77, 78, 89, 89.

Nos. 22, 25, 35, 39, 48, 49, 68, 25, 33, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 73, 77, 78.

MAPP 161 Available 161 Available 161 Available 162 Available 163, 68, 69, 70, 71, 73, 77, 78.

Non. 16, 24, 35, 43, 43, 46, 40, 53, 53, 54, 35, 66, 57, 58, 50, 60, 63, 64, 65, 68, 69, 70, 71, 73, 78.

64, 85, 68, 69, 70, 71, 73, 78.

CAS SUPPLY. — Sealed proposals will be a cevered at the office of the city Comproller, until one o'clock, F.A., Saturday, Dec. 2, 1878, to supply the city of the cit

er of the City Council. FRED REARICK, Comptroller of City of Quincy, Ill.

FIRE-PROOF SHUTIERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. Hovr will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

RAILROAD LETTING. — Sealed proposals will be received until Tuesday, Oct. 24, 1876, at twelve o'clock, noon, for the grading, culvert, treatic, and bridge masonry, &c., of the Second, f. hird, and fourth 10-visions of the Mismi Valley Narrow-gauge Railway, at the office of John B. Benedict, south-east corner of Crown and State Streets, Walnut Hills, Cincinnait, O. Second Division, from M. and C. B. B. to Mason Interest of the Mason Interest of the Mason Second Division, from Mason to Lebanon 18.82 miles.

Total

The profile is now on exhibition at said office. Printed forms must be used, which, with the specifications, will be ready for distribution on or about Thursday, Oct. 18, 1876, and must (with the names and addresses or each member of a firm budding, and of bondsmen, inclosed), be addressed to the undersigned, at his office. The right is reserved to let by divisions or by sections; also to reject any or all bids, in his discretion. JOHN B. BENEDICT.

Hospitall.—Sealed Proposals will be received at the office of the Chief Quartermaster, Bepartment of the South, Louisville, Ky., and also at the office of the Post Quartermaster, St. Augustine, Fla., until 2 o'clock, M., Oct. 28, 1876, at which time and places they will be opened in presence of bidders, for the construction at 8t. Augustine, Fla., of a Hospital Building, in accordance with plans and specifications, which may be seen upon application at the offices of the Chief Quartermaster, Department of the South, Louisville, Ky.; the Pepot Quartermaster, Augustine, Fla., of a Hospital Building, in accordance with plans and specifications, which may be seen upon application at the offices of the Chief Quartermaster, Department of the South, Louisville, Ky.; the Pepot Quartermaster, Augustine, Fla., of a Hospital Building, in a construction of wood (Ballou Frame), supported by piers of Coquina stone, 24 x 16 inches thick. Leng h of building, Ky. feet 2 inches; depth, 28 feet 2 inches. The work to be completed, and the building to be ready for occupancy, by the first day of February, 1871. Bidders will state the price for which the building will be erected complete; and each proposal will be accompanied by the usual guaranty for the faithful performance of the contract, which will be awarded to the lowest responsible bidder. The Government, however, reserves the right to reject any or all bids.

JAMES A. EKIN, Deputy Q. M. General, U. S. A. VENTILATING. — Sealed Proposals for

ment, however, reserves the right to reject any or all bids.

JAMES A. EKIN, Deputy Q. M. General, U. S. A.

VENTILATING. — Sealed Proposals for providing and fixing heating and ventilating apparatus will be received by the Board of New City-Hall Commissioners for the city and county of 8an Francisco, in the room of the Board of Supervisors, corner of Leavenworth and Mc-Allister Streets, between the hours of 12 noon and 1 o'clock, P. M., of Monday, Oct. 23, 1876. Proposals to be in accordance with the plans and specifications to be seen at the office of the Secretary, where forms of proposals and bonds will be furnished to intending bidders. The work to be completed in Hall of Records in fourteen weeks, and the whole work to be completed in the east wing of the Main Building in line months, commencing from the day on which the contract is ready for the contractor's signature. No bids will be entertained unless made on blanks to be furnished by the Secretary of the Board, and accompanied by a bond with two or more good and efficient sureties, in a sum equal to true per cent. The proposed to be done, and addressed to the Board of New City Hall Commissioners, and to be delivered to said Board whillst it is in session, and within the hour above parents the business of the Commissioners reserve the right to reject any or all bids.

A. J. Bryant, Geo. F. Maynard, W. C. Burnett, Board of New City Hall Commissioners for the City and County of San Francisco.

GEO. W. THOMAS, Secretary.

GEO. W. THOMAS, Secretary.

IRON BRIDGE. — Sealed proposals will be received until Monday, Oct. 23, 1876, at 12 o'clock noon, for the Iron superstructure of the north approach to the Ohio River Bridge, Cincinnati Southern Bailway, as follows: — Three through spans of 18 feet.

One through span of 18 feet.

One through spans of 18 feet.

The above spans are partiy on a three-degree curve, and more or less on a skew.

Plans, strain sheets, and specifications can be seen at No. 70 West Third Street, Cincinnati.

Printed forms must be used, and directed to the Board of Trustees of the Cincinnati Southern Railway, No. 70 West Third Street, Cincinnati, On The Board reserves the right to reject any or all bids. Ry order of the Board.

MILES GREENWOOD, President.

THOS. D. LOVETT, Consulting Engineer.

STEEL WIRE. — Proposals will be received up to Dec. 1, 1876, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N.Y., for the manufacture and delivery of 3,406 net tons of No. 8 galvanized steel cable wire, to be used in the construction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information, will be furnished upon application to this office.

W. A. ROEBLING, Chief Engineer.

STREET IMPROVEMENT. - Sealed pro-NIREET IMPROVEMENT.—Sealed proposals will be received by the Common Council of the city of LaFayette, Ind., up to Monday evening, Oct. 22, 1878, at which time the following work will be let, to wit: For the improvement of Asher Street, from Cason, to the west side of Tinkler Street, Said work to be done according to apecifications, and to be let to the lowest and beat bidder, according to law. Specifications for said work can be seen at the office of the City Engineer. By order of the Common Council.

ACOB KURTZ, City Clerk.

STREET IMPROVEMENT. - Sealed proposals will be received by the Common Council of the city of LaFayette, up to Monday evening, Oct. 23, 1856. at which time the following work will be let, to wit: For the improvement of Hill Street, from Washington Street to the city limits. Said work to be done according to specifications, and to be let to the lowest and best bidder, according Specifications. Specifications office of the City Engineer. By order of the Common Council.

JACOB KURTZ, City Clerk.

LIENARD'S DECORATION AND ORNA-IENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nineteenth Century. By LIENARD. Reproduced by the Heliotyne Process. Upwards of 120 designs, rich in hints to Architects and Decorators. I vol. folio, boards, \$27.00. Half morecon. cloth sides. \$30.00. JAMES R. OSGOOD & CO., BOSTOS s. Is add oblighed to the season of the seas

nd To.

BUILDING MATERIALS.	DOUBLE THICK. 6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50	Pine, tally boards, dressed, good 31@ 33 Pine, tally boards, dressed, common 25@ 27
LATEST NEW YORK QUOTATIONS.	8 x 10 — 10 x 15 21 00 19 50 18 50 17 50	Pine, tally boards, culls
Oct. 20, 1876.	15 x 24 — 15 x 32 30 00 28 00 25 00 — 16 x 32 — 20 x 30 32 00 30 00 26 00 —	Pine, strip boards, clear. 25@ 28 Pine, strip plank, dressed, clear. 35@ 38 Spruce boards, dressed. 22@ 25 Spruce plank, 1¼In. dressed. 25@ 29
BRICK. Cargo Afloat. Pale	22 x 30 15 x 33 34 00 32 00 28 00 20 x 34 22 x 36 37 00 34 00 30 00	Spruce plank, 1½in. dressed
	04 - 00 04 - 40 40 00 00 00 00	Spruce wall strips
Jersey. Long Island Up-River. Haverstraw Bay. 5 00 @ 5 500 # 5 00 # 5 00	24 x 42 - 28 x 42 44 50 40 00 36 00	Hemlock boardseach 16@ 18 Hemlock joist, 2½ x 4 15@ 18
Haverstraw Bay, choice	30 x 50 - 32 x 52 48 50 44 50 40 00	Hamlook joint 3 v 4
Haverstraw Bay, choice	34 x 58 — 34 x 60 55 00 50 00 46 00 —— 36 x 60 — 40 x 60 60 00 53 00 52 00 ——	Hemlock joist, 4 x 6
Brick. FRONTS.	Sizes above, \$15 per box extra for every five inches. An additional 10 per cent will be charged for all glass	Madiconnected the second secon
Croton — Brown		Chestnut boards, 1in
Croton — Red	be charged in the 84 united inches bracket Discount to the trade, 60 and 20 @ 60 and 25 per cent.	Chestnut plank 45 00@ 60 00 Cypress, 1, 1½, 2, and 2½in. 35 00@ 40 00 Black Walnut, good. 89 00@ 100 00 Black Walnut, 5 75 00@ 85 00
Tronton 21 (0) (0) 20 00		Diack walnut, selected and seasoned110 (00/a) 150 00
Baltimore	Sizes. 1st. 2d. 3d, 4th. 6 x 8 - 10 x 15\$10 75 \$\displays 9 75 \$\displays 9 00 \$\displays 8 25	Black Walnut counters
and 86 on Baltimore. CEMENT.	10 x 16 - 14 x 26 12 50 11 50 10 25 9 00	Cherry, good
Rosendale	18 x 22 13 25 12 00 10 75 9 50 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25	Whitewood, %in
Roman 3 50 @ 3 75		Shingles, extra shaved pine, 18in. (P. M. 9 50.0) 10 00 Shingles, extra shaved pine, 16in 8 50.0) 9 50
Keene's coarse	26 x 36 - 26 x 44 22 75 20 25 15 50 ————————————————————————————————	Shingles, extra sawed pine, 18in 7 00@ 8 00 Shingles, clear sawed pine, 18in 6 50@ 7 50
FIRE BRICK.	30 x 52 - 30 x 54 27 25 24 00 18 75 - 30 x 56 - 34 x 56 29 50 26 25 22 00	Shingles, cypress, 24 x 7 20 00@ 22 00
Red Welsh	34 x 58 - 34 x 60 31 50 29 50 25 00	Yellow pine dressed flooringD M ft. 35 00@ 45 00
American 30 00 @ 40 00	36 x 60 - 40 x 60 37 00 32 50 29 50 — Above \$12 per box extra for every five inches. Discount, 70 @ 75 per cent.	Yellow pine girders
DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES.	GREENHOUSE, SKYLIGHT, AND FLOOR GLASS.	Locust posts, 12ft
2.0 x 6.0	Por square foot not each	Chestnut posts
2.6 x 6.8	% Fluted plate \$0 22 4/8 Rough plate \$0 65 3-16 Fluted plate 30 4/2 Rough plate 1 05 % Fluted plate 40 2/2 Rough plate 1 05 4 Rough plate 40 1/2 Rough plate 1 30 4 Rough plate 40 1/2 Rough plate 1 30	PAINTS AND OILS.
Doors, Moulded.	7 Fluted plate 40 % Rough plate 1 15 Rough plate 1 30	China clay
Size. 1½ in. 1½ in. 1½ in. 1½ in.	78 Rough plate 1 80	Whiting
2.6 x 6.6	FOREIGN WOODS. — Duty free. CEDAR.	Zinc, white, American, dry 61/40 71/2 Zinc, white, American, in oil, pure. 111/40 12
2.6 x 6.10 1 96 2 47 — 2.6 x 7.0 2 01 2 68 —	Cuba	Lead, white, American, dry 9 (a) 9 (a)
2.8 x 6.8 2 00 2 58 \$3 18 2.8 x 7.0 2 09 2 68 3 34	Mexican, large 0 8% @ 0 11	Lead, red. American 83 (a) 814
2.10 x 6.10 2 20 2 78 3 54 3.0 x 7.0 2 30 3 02 3 74	Florida	Litharge, American
GLAZED WINDOWS.	St. Domingo, crotches, ordinary to good	Ochre, in oil (currency)
Dimensions of 12 Lights. 8 Lights. 4 Lights.	St. Domingo, crotches, fine 0 50 @ 0 75	Spanish brown, dry
Windows, 134pl, 134ee, 13/2ee, 13/4ee, 13/4ee, 13/4ee, 13/2ee, 2.1 x 3.6\$1.00 1.08	St. Domingo, logs, small	Vermilion, Am. Quicksilver (gold)
2.4 x 3.101.15 1 23 1.32 — 1.35 — 1.69 1.81	Cuba, logs, small	Carmine, American, gold
2.7 x 4.101 56 1.64 1.77 1.80 — 2.02 2.15 27 x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31	Frontera, Mexican, small 0 7 (a) 0 10	Paris green, pure, dry
2.7 x 5.6	Other Mexican	Putty, pure
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Rosewood.	PLASTER PARIS. Duty. —20 per cent. ad val. on calcined; lump, free.
2.10 x 5.61.88 1.96 2.19 2.16 2.39 2.42 2.65 2.10 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82	Rio Janeiro, ordinary to good Plb. 0 21/2 0 31/2 Rio Janeiro, good to fine 0 4 @ 0 6	Nova Scotia, white
cc means counted checked, plowed and bored for		Nova Scotia, blue
weights. Hot-Bed Sash, Glazed	Honduras	Calcined, city superfine 2 25 @ 2 50
OUTSIDE BLINDS. Per lineal foot, up to 2.10 wide\$—— @ \$2 25	Bania, orumary to good.	SLATE. Delivered at New York Purple roofing slate, p square. \$7 50 @ \$8 00
Per lineal foot, up to 3.1 wide	Lignumvitæ, large 25 00 @50 00	Green slate
Per lineal foot, painted and trimmed 0 40 @ 0 50	IRON.	Black slate, Pennsylvania (at Jersey
Per lineal foot, 4 folds, Pine		Peach bottom (nominally) 9 00 @ 10 00
Per lineal foot, 4 folds, Cherry or Butternut—— (a) 1 10		Slate tiles, 1½in., rubbed, P sq. ft. delivered 20 @ 25
Per lineal foot, 4 folds, Black Walnut — @ 1 20 Window Frames.	fron to pay a less duty than 35 per cent ad val.	SOLDERS
Up to 3.4 x 7.2, put together — @ 2 65	Pig, Scotch, Coltness	No. 1
HAIR.—Duty free. Cattle	Pig. Scotch, Eginton	TIN PLATES Duty, 1 1-10c. P b.
Goat 0 15 @ 20	Pig American No.1 99 00@ 93 00	I. C. charcoal, 10 x 14 P box (cur.) \$8 50 @ \$8 75 I. C. coke, 10 x by 14
State, common, cargo rate	Pig, American, No. 2. 20 00@ 22 00 Pig, American, Forge. 19 00@ 20 00 Bar, refined, English and American.	I. X. charcoal, 10 x 14 10 75 @ 11 00
State, finishing	Bar, Swedes, assorted sizes (gold) — @ 100 00 Store prices, cash.	I. C. charcoal, 14 x 20
Rockland, finishing 1 10 @	Bar. Swedes, ordinary sizes	I. C. coke, terne, 14 x 20
Add 25 c. to above figures for yard rates.	Bar, Swedes, plow sizes	ZINC.—Duty, sheet, P B. 24c.
GLASS. Duty. — Window, Polished Cylinder, and Crown, not	Bar, renned, 1% to 6 x % & 5-16th 27-10(a)	Sheet (gold)
over 10×15 in., 2^{1} c. Ψ sq. ft.; larger, and not over 16×24 in., 4c. Ψ sq. ft.; larger, and not over 24×30 in., 6c. Ψ sq. ft.; above that, and not exceeding 24×60 in., 20c.	Large rounds, 2% & 2% 27-10@ —	DOTTIER & STYMIS
∀ sq. ft.; above that, and not exceeding 24 x 60in., 20c. ∀ sq. ft.; all above that, 40 ct. ∀ sq. ft. On Unpolished Cylinder, Crown, and Common Window, not exceeding	Scroll	POTTIER & STYMUS MANUFACTURING COMPANY.
10 x 15in., sq., 1 1/4c.; over that, and not over 16 x 24, 2c.;	Band, 1 to 6 in. x 3-16 to No. 12 2 9-10@ ————————————————————————————————————	INTERIOR WOODWORK,
over that, and not over 24 x 30, 2 1/2c.; all over that, 3c.	Rods, 1/4 to 3-16in	DOORS AND TRIMMINGS, FITTINGS OF OFFICES,
FRENCH WINDOW. List of March 1, 1876.	Nail rod	DECORATIONS AND UPHOLSTERY
Sixes. 1st. 2d. 3d. 4th.	Sheet, singles, doubles, and trebles, common	LEXINGTON AVENUE, 41st AND 42D STREETS, NEW YORK.
x 8 — 7 x 9\$11 00 \$10 50 \$10 00 \$9 50 15 x 10 — 10 x 15 12 00 11 00 19 50 10 00	Sheet, galvanizedList 35@ 45 per cent dis.	
16 x 14 12 x 16 13 50 12 50 11 50 10 75	Rails, American (currency) 41 00@ 45 00	TOSCHI'S ENGRAVINGS. From Fresco by Correggio and Parmegiano. Reproduced by the
6 x 18 - 14 x 24 14 00 13 00 12 00 11 25 18 x 24 - 15 x 32 17 00 16 00 14 00 13 00 20 x 32 - 20 x 30 18 00 16 50 14 50 13 50	LATH. — Cargo rate	Heliotype Process from the "Gray Collection of Engrav
	LUMBER.	ings," Harvard University.
21 x 30 15 x 38 19 50 18 00 16 00		This volume contains twenty-lour Plates, including Par
21 x 30 - 15 x 38 19 50 18 00 16 00	Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 00	megiano's Saint Agatha, Saint Lucia, and Saint Apollonia
21 x 30 — 15 x 38, 19 50 18 00 16 00 —— 21 x 34 — 22 x 36, 20 50 19 50 17 00 —— 24 x 36 — 24 x 40, 23 00 20 50 18 00 —— 24 x 42 — 28 x 42, 25 50 22 50 20 50 —— 25 x 46 — 30 x 48, 26 50 23 50 22 00	Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 00 Pine, good	megiano's Saint Agatha, Saint Lucia, and Saint Apollonia Two Deacons, and Saint George. Of Correggio's Frescos, i
21 x 30 — 15 x 33 19 50 18 00 16 00 —— 221 x 34 — 22 x 36 20 50 19 50 17 00 —— 24 x 36 — 24 x 40 23 00 20 50 18 00 —— 24 x 42 — 28 x 42 25 50 22 50 20 50 ——	Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 00 Pine, good	This volume contains twenty-four Pláces, including Par megiano's Saint Agatha, Saint Lucia, and Saint Apollonia Two Deacons, and Saint George. Of Correggio's Frencos, I- includes the Madonna della Scala, Diana in a Charlot, The Coronation of the Virgin, groups of Cherubs and Angela A rare and valuable collection. Quarto. Price, \$10.60.

THE GIFT-BOOK OF THE SEASON.

\$5.00

THE SKELETON IN ARMOR. By Henry Wadsworth Longfellow. Beautifully illustrated by Mary A. Hallock, and each stanza enclosed in a colored border of appropriate design. I volume, square 4to. Beautifully and emblematically bound. Full gilt.

** This favorite poem, which may be termed a Romance of Newport, is connected with the mysterious Roman Torcer at that favorite resort, about the supposed origin of which the poet has woven a charming ballad of love and adventure. This beautiful piece, which has been considered by many the author's best poem, has been illustrated by Miss Hallock in her finest style; and the book as a whole is the most elaborate and beautiful gift-book ever produced in this country. [Ready in November.]

MAGNIFICENT HELIOTYPE ART-WORKS.

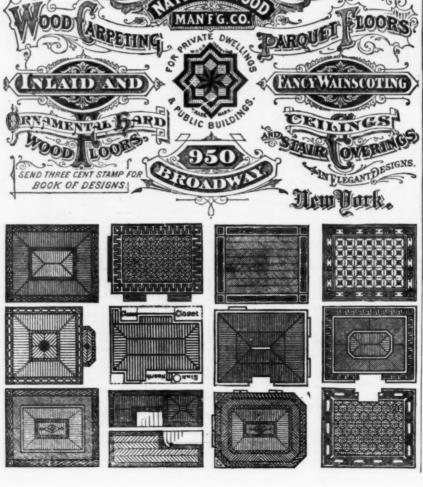
The great and permanent popularity of the Illustrated Heliotype Editions of Toschi, Raphael, Landseer, and other similar works, has demonstrated the capacity of the Heliotype Process to produce

ILLUSTRATED ART WORKS OF THE HIGHEST EXCELLENCE.

THEY COMPRISE

- I. GEMS OF THE DRESDEN GALLERY.
 - ** Containing the most celebrated and beautiful pictures of this celebrated Gallery, which probably holds more famous pictures than any other in Europe.
- II. GEMS OF THE GRAY COLLECTION OF ENGRAVINGS AT HARVARD COLLEGE. *4 This renowned collection was presented to Harvard College by the munificence of the late F. C. Gray; and the present volume contains a selection of the best and most representative works in the Collection.
- III. THE TITIAN GALLERY.
 - $\bullet_{\pi^{\Phi}}$ Containing the most popular and famous pictures of this great master, with a sketch of his life and works.
- IV. GALLERY OF FAMOUS ARTISTS.
 - ${}^\bullet\epsilon^*$ Containing portraits of the most celebrated artists of various countries and times, down to the present century.
- V. GALLERY OF FAMOUS BEAUTIES.
 - *.* Containing portraits of the most famous beauties of Europe, including heroines of art and song, as well as beauties of court and historic adventure.

JAMES R. OSGOOD & CO., Boston.



D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash. For Insane Hospitals, Fire Proof Buildings, &c.



nes gives perfect security without at have a prison-like appearance, oth architects and medical superin-worth. Manufactured by

D. M. MEEKER & SON,

Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver, and Composition: also Patterns a specialty.



HEADOUARTERS PARLOR GRATES. THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Lo

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH.
Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes all possibility of overflow, by which buildings are so often damaged to the extent or thousands of dollars.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our patrons:—

patrons:—

We hereby piedge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fuffil the following conditions, provided the trap is kept in running order:—

ist. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind vill occur.

3d. No sewer gas will escape from the drain or pipe, or any offensive smeli arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston.

SCOTCH AND AMERICAN



Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile. American, Roman, and Portland Cement,

LIME, SAND, &c. WALDO BROTHERS,

No. 94 Water Street, Boston.

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND,

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS,

WHICH INCLUDE

TRACING CLOTH,

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper,

Bubber and Wood Triangles, T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND.

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.



S

S.

S

n.

es

nd

t,

PARQUET FLOORS.

The National Wood Manufing Co.

WOOD CARPETING,

Brushes for Waxing Floors.

The Rogers Patent Wooden Houses. John W. Marshall,

ARCHITECT.

General Agt., 265 Broadway, N.Y.



PARLOR GRATES

For Health and Comfort Made low or half low down with the celebrated dumping attachment. Can bused for hard or soft coa or wood. The finest assorment in New England.

H. M. CREAMER. 86 North Street, Bosto

Send for Price List. If parties are living within five hundred miles of Boston, it will paytocall and examine.

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

HOMES AND HOW TO MAKE THEM.
By E. C. GARDNER. Hustrated. I vol. square 12mo.
JAMES B. OSGOOD & CO., BOSTON



J. & R. LAMB.

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free. Wood Work | Metal & Stone Work | Banners & Decoration 10 cts. | Metal & Stone Work | Banners & Decoration 10 cts.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest pattern

ze and Brass Hardware manufactured to order from rown patterns, or from architects' drawings, 20 DOCK SQUARE, BOSTON, MARUFACTORY 19 WAREHAM STREET



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

JAMES EDMOND & CO.

MANUFACTURERS AND IMPORTERS OF FIRE CLAY GOODS,

FIRE BRICK AND TILE,

SEWER AND DRAIN PIPE.

BOSTON FIRE BRICK WORKS,

WHARF, 394 FEDERAL STREET, BOSTON.

(Just South of Kneeland St.)

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

E. Ilixon, jun STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 668 Washin 6 Charlestown st; Allen & Noble, 94 Hanove Dock sq; Farless & Boynton, 15 Cornhill; 21 Washington st; B. L. Solomon & Sons, 4 Yeav York City.—A. Hammache Gomon & Sons, 698 Broadway; E. K. Krunhas. E. Kugler, 10 Division st.; Speyer Broubinger, 186 Grand st. C. A. Stock, 116 Wo Brooklyn, (E. D.) N. Y.—Hermann, Albanay.—Maurice E. Viele, 41 State st. .; Speyer Bros, 110 Bowery; W. F. Stock, 116 Wooster street, [.—Hermann Weber, 134 Grahamav. ele, 41 State st. Pear! st. as Thomas

Chartes Worthington & Co. 2. 148 Water st. J. L. Landscher & Kuhlman, 534 Main st; J. L. Landscher & Kuhlman, 534 Main st; J. L.

Dir Our goods can be purchased of the above Agents at the me prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

BOSTON.

P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROWFIELD
STREET, BOSTON.

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE......Boston

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance,

RATES OF ADVERTISING

				3.				lines	
				0				\$7 00	
								20.00	
								58.00	
								70.00	
e l	line	0 4	eac	h	ins	er	tic	D. OF	\$1.40
								\$5.60	
								16.00	
								46.00	
								\$8.0J	
		r line	r line	r line eac	r line each	r line each ins	r line each inser	r line each insertic	20.00 58.00 70.00 r line each insertion, or

Publishers' Department.

OUR ADVERTISERS.

One of the surest indications of the value of a public journal is to be found in the character of its advertisers. Although the AMERICAN ARCHITECT AND BUILDING News has been published less than and Building. News mas been published less than a year, it already numbers among its regular pairrons some of the oldest and most substantial business houses in the country. These embrace a wide variety of firms engaged in building pursuits, many of whom furnish materials used in the construction of buildings. To the latter class especially, we can recommend this paper as one of the best mediums which they can select, as in its columns their an-nouncements are brought directly to the attention of

the very persons whom they desire to reach.

The circulation of the Abchitect is national. Its subscribers and patrons reside in all sections of the country; and its value to those who desire that their business announcements should be read by their customers in all parts of the United States, and the Canadas, is obvious. We subjoin a list of those whose cards appear in this number of the Abchitect:

acias, is obvious. We subjoin a list of those whose cards appear in this number of the ABCHITECT:

J. B. & J. M. Cornell, iron-work for buildings.
Tatham & Brothers, tin-lined iron pipe.

New England Linen Hose Manufacturing Company.
Charles P. Williams, dealer in building stone.
Charles Booth, glass stainer.

S. W. Fullor, electric bells, annunciators, &c.
George Barney, marble flooring tiles.
Henry C. Hunt & Co., belting for elevators, hose, &c.
S. A. Stetson & Co., gas fitters and fixtures.
Smith & Van Noorden, galvanized iron cornices, &c.
The Fire-Proof Building Company of New York.
Whittier Machine Co., elevators, steam engines, &c.
Minton's Tiles, &c., T. Aspinwall, sole agent.
Bartlett, Robbins, & Co., architectural, ornamental, and galvanized iron work, &c.
John H. Reed & Co., iron merchants, and agents for Bay State Iron Company.
Tufts Elevator Works.
King Iron Bridge and Manufacturing Company.
Archer & Pancoast Manufacturing Company.
William A. Barnes, electric annunclators, door and call bells, &c.
M. J. McPherson, painter, decorator, and designer.
Philip A. Butter, decorator and designer.
Wallburg & Sherry, interior painters and decorators.
L. Haberstroh, fresco painter.
William S. Brazer, decorator and designer.
Wallburg & Sherry, interior painters and decorators.
L. Haberstroh, fresco painter.
William S. Brazer, decorator and designer.
Wallburg & Sherry, interior painters and decorators.
L. Haberstroh, fresco painter.
William S. Brazer, decorator and designer.
Wallburg & Sherry, interior painters and decorators.
L. Haberstroh, fresco painter.
William S. Brazer, decorator and designer.
Wallburg & Sherry, interior painters and decorators.
L. Haberstroh, fresco painter.
William S. Brazer, decorator and designer.
Wallburg & Sherry, interior painters and decorators.
L. Haberstroh, fresco painter.
William S. Brazer, decorator and designer.
Wallburg & Sherry, interior painters and d

Proposals for materials to be supplied to the Navy Yards; for supplying the city of Quincy, Ill., with gas for twenty-five years; for street improvements in the city of LaFayette, Ind.; for grading, culvert, trestle, and bridge masonry on the Miami Valley Narrow-gauge Ballway; for hospital building at St. Augustine, Fla.; for wentilating apparatus, San Francisco; for iron superstructure of the north approach to the Ohio River Bridge; for seel wire for the New York and Brooklyn Bridge. Lienard's Decoration and Ornamentation.

THED PAGE.

Pottier & Stymus Manufacturing Company, interior wood-work, doors, trimmings, &c.

Tosch's Engravings.

POLRTH PAGE.

The Gift-Book of the Season.

National Wood Manufacturing Company, wood carpetings, parquet floors, &c.

D. M. Meeker & Son, malicable iron hollow munten window such.

Murdock Parlor-Grate Company.

L. S. Moore & Co., Wellington's patent wash-bowl. Waldo Brothers, chimney tops, garden vases, &c.

FIFTH PAGE.

Wadsworth Brothers & Howland, architects' and engineers' stationery, colors, &c.

John W. Marshall, architect, general agent for the Rogers patent wooden houses.

H. M. Creamer, parlor grates.

Edward Hixon & Co., manufa, of cabinet furniture. Homes and how to make them.

J. & R. Lamb, church furniture, &c.

Burdit & Williams, builders' hardware.

Roeth & May, furniture and decoration.

James Edmond & Co., fire-clay goods, fire-brick, &c.

W. J. McPherson, stained glass works.

William B. Gleason & Co., arthicial wood ornaments. The New England Cabinet Organ.

S. P. Tolman & E. A. Hunting, builders, real estate improvers, and general agents.

North American Review, October, 1876.

Massachusetts Institute of Technology.

Engravings from Landseer.

Otto F. Falck & Schwabe, stained glass, &c.

Jamies R. Osgood & Co.'s publications.

Milliam B. Gleason & Co., architect and Builders of church organs.

Le Bosquet Brothers, steam-heating apparatus.

Other Parker, & Co., veneurs of all kinds.

Clark & Co., patent self-colling rovolving steel shutters.

Jenical Parke

The Murdock Parlor Grate.

This grate seems to have achieved a very wide pop larity; and we take pleasure in recommending it to the special attention of the architects and builders of the country. The assortment of grates, fenders, and goods of a like nature, to be seen at the salesrooms of the Murdock Parlor Grate Co., No. 11 Marshall Street, Boston, is very fine; and those wishing to purchase will do well to give them a call. The company makes a specialty of the Tuttle & Bailey Registers. Their catalogue, which is forwarded on application, gives particulars from which buyers can gain much valuable informa-

Centennial Awards.

Persons engaged in the manufacture of materials used in the construction of buildings, who have been awarded premiums in the Centennial Exhibition, would do well to inform architects and builders of the fact through the columns of the AMERICAN ARCHITECT AND BUILDING NEWS. A little money spent in judi-cious advertising generally proves a profitable invest-ment; and the close of the exhibition gives the successnpetitors a rare opportunity which they should

Tin-Lined Iron Pipe.

"Tin-Lined Iron Pipe.

"The Iron Age," in noting the steps by which tinlined iron pipe has reached its present state of perfection, thus describes the article manufactured by Messrs.
Tatham & Brothers, & Beekman Street, New York;
Given the idea of placing a tin tube within one of iron,
and it would seem a very simple thing to manufacture
the article. The tin tube is made quite thin, and some
difficulty was at first found: this, however, was soon
overcome. The tin tube as it comes from the press is
cut up into lengths just a little longer than the iron
pipe, and expanded into its place by a hydraulic pressure of about three hundred pounds per square inch.
The projecting ends of the tin pipe are cut off, turned
over, and soldered. To the plumber the next question
suggested is, How can this pipe be cut, jointed, and the
like, without exposing the iron between the tin? Incutting the pipe, a cutter is used, which takes out a
clean chip, and leaves the ends smooth and the tin
ntouched, the latter being cut off with a knife. The
next point was the coupling of two pieces without leaving an exposed iron surface, or without leaving a crack
by which water could penetrate to the iron behind the
in. This is accomplished now by a very simple arrangement, which, while it gives a continuous covering
of tin the whole inside of the pipe, also makes the
joints tight. Into the end of each tube is slipped a
small tin-coated ferrule, the projecting edge of which
has a V-shaped edge. A shoulder is provided to prevent the ferrule from being driven into the tube. The
couplings are of iron, similar to those used with iron
pipe, but are given a thick lining of tin, so that their
inside bore is the same as that of the pipe. The edge
of this tin lining is beveled off, so that in screwing a
length of pipe into coupling, the ferrule strikes the tin
and is bedded solidly into it, making a joint not omly
perfectly tight, but one in which the is she only metal
exposed. Plugs, caps, reducing-collars, and the like,
had all to be dev

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHI-TECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and

ouncements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout

NORTH AMERICAN REVIEW. OCTOBER, 1876.

ART. I. THE SOUTHERN QUESTION. WILLIAM HENRY TERSCOT.

II. THE WHISKEY RING. H. V. BOYNTON.

III. VON HOLST'S HISTORY OF THE UNITED STATES. HENRY ADAMS AND H. C. LODGE.

IV. AN EPISODE IN MUNICIPAL GOVERNMENT. The Shattering of the Tweed "Ring," C. F. WINGATE.

V. THE "INDEPENDENTS" IN THE CANVASS.

VI. CRITICAL NOTICES.

\$1 50 a Number; Yearly Subscription, \$6 00.

Sold by Booksellers and Newsdealers. Sent, postpaid, on receipt of price by the publishers,

JAMES R. OSGOOD & Co., BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemists. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science,
THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

esign. Special students in Architecture are received into a two-Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address William R. Ware, Esq., Pro-fessor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.

The advertising columns of the American Architect and Bullding News are used as a Directory by the architects and builders of the country. Our patrons receive numerous orders from the cards which they insert, and from parties whom they would not otherwise reach. Specimen copies of the paper are sent free.

BY THE AMERICAN ARCHITECT AND BUILDING NEWS are used as a DIRECTORY by the architects and builders of the country. Our patrons receive numerous orders from the cards which they insert, and from parties whom they would not otherwise reach. Specimen copies of the paper are sent free.

BY THE AMERICAN ARCHITECTORY by the Architect Two Wiley. The Challenge, "Chillingham Red Cier," High Life," "Low Life," "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty. Quarto. Price, \$10.00.

6.

titive itects BCHI-

and corat-ber of ghout

EW,

LLIAM

ITED

DGE. ERN-Ring."

VASS. 00. , post-

OGY.

echani-

the ne-tudy of original

a two-

phia, in q., Pro-

Re-Life and ing with ndseer's am Red n of the e Law," beauty.

BOSTON

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

ar Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Classics." \$1.00 cach.

ENGLAND - Vol. I. (Aldborough - Furness Abbey.)
Vol. II. (Glastonbury-Nottingham.) Vol. III. (Oakley-

Yol. 11. (Commonth.)

"We can conceive of no series so charming, when completed, as this, or one which promises to become so popular."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE.

THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the popular "Little Classic" HAWTHORNE. With Index of Subjects in the entire series. \$1.25.

ette Illustration.

raginese situatration.

"We cannot sufficiently praise this splendid edition of Hawthorne. The publishers are to be congratulated on their artistic success with it, and it should be in every library."—New Haven Journal and Courser.

ILLUSTRATED LIBRARY HAWTHORNE. FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Illustrations. 12mo. \$2.
This volume completes the Hiustrated Library Edition of
HAWTHORNE'S WORKS, in 12 volumes, 12mo, each containing two Illustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING, By Dr. John Brown. Hustrated. Flexible cloth. 53 cts. A beautiful Pocket Edition of two of the most charming Stories in the English language. "Rab" and "Pet Mar-jorie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll.

Author of "Alice's Adventures in Wonderland," &c., with nile Hustrations by Henry Holiday 1 vol., 32mo. 50 cents.

A cheap edition of a curious and entertaining little book, in which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujuba, Snarka, Boojuma, and other grotesque and amusing folks. The Boojuma and an other grotesque and amusing folks. The didn't of "Alice's Adventures" will need no second invitation to read "The Hunting of the Snark."

. For sale by Booksellers. Sent, post-paid, on receipt of rice, by the Publishers,

JAMES R. OSGOOD & CO., Boston.

E. P. DUTTON & CO., No. 713 Broadway, New York. Special Agents for J. R. O. & Co's, Publications.



National Fine Art Foundery,

218 East 25th Street, New York. Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our art are invited to confer with us.

STEAM HEATING. LE BOSQUET'S

STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our defect; and it needs only that its cost shall be brought within fact; and it needs only that its cost shall be brought within fact; and it needs only that its cost shall be brought within fact; and it needs only that its cost shall be brought within the same of the same of

LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston





The American Architect and Building News.

THE PAPER FOR ARCHITECTS, BUILDERS, AND ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS, EVERY SATURDAY.

BY IAMES R. OSGOOD & COMPANY.

WINTHROP SOUARE, BOSTON.

BEING devoted to the Architectural and Building intersts of all sections of the country, it offers special induce-

AS AN ADVERTISING MEDIUM.

o Manufacturers and Dealers in Builders' Materials, as well

to Manufacturers and Dealers in Builders' Materials, as well as to Decorators and those engaged in the various branches of Interior Decoration, &c.

Each number contains editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of Interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art.

A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

or various Architectural Designs, accompanying each number, which are contributed by architects in different parts of the United States.

Another valuable feature is now added in the publication

PRICES OF BUILDING-MATERIALS,

the list being made up just before going to press each week. The publishers respectfully request the co-operation of those professional and business men, to whose interests it is devoted, to add to the popularity and value of the "Architect," by contributing to its columns whatever may be deemed of interest to its readers.

The American Architect and Building News

Is for sale by all respectable newsdealers, and is mailed, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING,

Winthrop Square, Boston.



ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING an be shown looking much fresher than any other paint of

to years.
It emits no poisonous gas like other paints while drying.
s surface is a perfect enamel, from which any specks of

irt may easily be removed. It is unequalled for beauty, durability, and economy. OFFICE AND STORE 145 MILK STREET, BOSTON.



TWO PRIZE MEDALS.

WOOD SHUTTERS

se shutters, unlike all others, are made without webbing or leather bands, the signmeeted entirely by bands of steel. They are the best and cheapest shutter g connected caurety by banes of storing and burglar proof, are also offered at a proved ROLLING STEEL SHUTTERS, fire and burglar proof, are also offered at

WILSON & JAMES, 68 Beekman St., New York.

YALE LOCKS. "STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY. HENRY R. TOWNE, President.

Principal Office and Works Stamford, Conn. Salesroom No 53 Chambers St, New York.

ILLUSTRATED CATALOGUES furnished free to Architects on app

ESTABLISHED 1888

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN. WHITE HOLLY. MAHOGANY. THUYA. ROSEWOOD, etc.,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

Can be readily fitted to Store Fronts, Rear Windows, or other openings making them FIRE AND BURGLAR PROOF, and affording absolute protection; also WOOD SHUTTERS in various kinds of wood, suttable for Store Fronts, Private Houses, Offices, and School Partitions. Clark's Shutters are self-acting, require no machinery or balance weights, and cannot get out of order. They are handsome in appearance, and are the best and cheapest shutters in the world. Are it red to the new Tribune Building, Pelaware and Hudson Canal Building, Manhattan Building, Lenox Library Building. Have been for veers in delig use in every principal city throughout Europe, and are indorsed by the

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.





JENNINGS' SPECIALTIES

IN ALL KINDS

PLUMBERS' SUPPLIES.

JENNINGS: PATENT SIX JOHNINGS' PATENT WATER CLOSETS, ENNINGS' PATENT PERSON URINAL. Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals, atent Latrines, and other specialties (the peculiarity of all of which is the thorough exhibit on Sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.
A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoration, and Bathroom Linings. Contractor for Tile Work in Dwellings and

Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

To Manufacturer of Fine Furniture, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston.

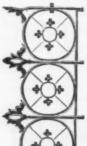
All interested in Building matters are cordially invited, while at the CENTENNIAL, to visit



Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF

WROUGHT AND CAST IRON



For Building IRON AND WIRE RAILING,

IRON CRESTINGS,

IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES.

BUILDERS' HARDWARE.

Estimates given on all kinds of

Send Stamp for Catalogue BUBIER & COMPANY, 118 MILK STREET, BOSTON.

DEALERS in Architects' and Builders' Sup-piles should advertise in the American Abchitect and Building News.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, 17 Pemberton Sc. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,

CHARLES D. WOODBERRY, Architect,

JOS. E. BILLINGS, Architect, 33 School

DANIEL APPLETON, AND H. M. STE-

L. S. IPSEN, Architect, 29 Pemberton

GEORGE ROPES, Architect, 32 Pemberton

GEORGE F. MEACHAM, Architect, 93

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTOS

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord. N. II. Offices, 10 Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands, 37 Haverhill St., Bos-ton, Posts, Rails, Balusters, & Office Rails, furnished to order.

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by Scott. Street, Colling, and others. I vol. quarto. 64 plates. \$15.00. Containing designs for Churches, Cathedrala, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Saths, &c. JAMES E. OSGOOD & CO., HOSTON.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. lémmo. \$1.50. JAMES R. OSGOOD & CO., BOSTOM

Franklin Press: Rand, Avery, & Co., Boston.

THE SHEET METAL PAVILION

Situated on Belmont Ave., opposite the Lake, where will be found the exhibits of

MARSHALL BROS. & CO., Philadelphia, Penn.

Manufacturers and Galvanizers of Sheet Iron, Bar Iron, &c.

The Kittredge Cornice & Ornament Co., Salem, O. Manufacturers of Architectural Sheet Metal Work "For the Trade."

CHILD-LIFE IN PICTURES. Containing



6.

A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 44.]

SATURDAY, OCTOBER 28, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | Boston. | New York. | Philadelphia.

TIN-LINED IRON PIPE

A PURE BLOCK-TIN PIPE
Incased in a wrought-iron tube, combinin

PURITY, STRENGTH, DURABILITY, AND CHEAPNESS.

TATHAM & BROS. 82 Beekman Street, New York.

"The great strength of this pipe will make it a favorite in all towns where heavy pressures are used; and the ease and certainty with which a joint can be made are great recommendations in its favor."—Iron Age.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE. Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,
QUARTYMAN, and Wholesale Dealer in
BUILDING STONE.
OHIO STONE, FROM BELLIN, AMHERST, AND BEREA QUARRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARBLE.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS.

As laid by us in

THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every part of the Country.

Glazed and Enamelled Tiles for Mantels, Hearths, Wainscoting, &c., and for Exterior Decoration.

MILLER & COATES,

279 PEARL STREET, New YORE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,

AND BURGLAR ALARMS, For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Boston

SAYER & FISHER. MANUFACTUREUS OF LIGHT COLORED (Buff to Whife) PRESSED FRONT BRICK. MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,

FOR EXTERIOR AND INTERIOR ORNAMENTATION MADE TO ORDER FROM DESIGNS.

ALSO, COMMON BUILDING BRICK.

Works at Sayerville, on Raritan River, N.J., Office, Newark, N.J.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF AND MANU'F CO. AS STREET, Uniting attention, and registance to fire and water. The Hydraulic Lime of Tell (Falcatione) to fire and water the Hydraulic Lime of Tell (Falcatione). The block do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

MANUFACTURERS OF ALL KINDS OF MANUFACTURERS OF ALL KINDS OF

Conduct reas, vote of the following than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following

cellings under wooden or iron beams, in the following buildings:—
Western Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assurance, Hudson R. R.E. Fr'ght Depot, Westminster Hotel, Syracuse Savinga Bank, Westminster Hotel, Syracuse Savinga Bank, Columbia College, Baltimore Saf's Droott, Insurance on Wooden Mansards r duced nincty cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

LEONARD F. BECKWITH, President.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS,

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Tremont Street, Boston. Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.
CHARLES WHITTIER, Pres.
JAMES STURGIS, Treas.

MINTON'S TILES. Established 1794.

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES.

T. ASPINWALL, Sole Agent, 38 MURRAY STREET, NEW YORK.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK.

ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING.

HEATING.

HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.

Works, cor. Pratt and Scott Sis.,
BALTIMORE, MD.

NEW YORK OFFICE, 68 Beekman Street.

Office 24 Light St.

JOHN H. REED & CO.

IRON MERCHANTS. AND AGENTS FOR BAY STATE IRON COMPANY.

Manufacturers of and Dealers in ageneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, a Deck Beams, Angle and T Iron. Boiler and Tank

Rivets, Lap-Welded Iron Boiler Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-

ANUFACTURERS OF "TUFTS" PATENT" COMBINATION ROPE ELEVATOR,
TO BE OPERATED EITHER DI STEAM OR WATER.
19 oult safe and reliable machine made for Passenger use
19 oult safe and reliable machine made for Passenger use
19 public Buildings and thotels, and for business purposes in
archouses, Stores, &c.
17 FOUNDRY STREET, SOUTH BOSTON.
OFFICE, 243 Broadway, New York.

OTIS TUFTS, President. L. A. BIGELOW, Treas'r and Gen'l Manager

BUILDERS' SUPPLIES.

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

MAKUPACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE. 67 Green St.; 68, 70, & 72 Woosters St., Above Brooms, NEW YORK. 83° Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERT DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WAREROOMS, No. 597 BROADWAY, NEV NEW YORK.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St., BOSTON.

CALVANIZED IRON CORNICES, CHAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Fatent Chimney Jacks. Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CULRCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTOE.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
So. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

BUILDERS' SUPPLIES.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER.

No. 10 JACKSON STREET,

ORANGE, N.J.

P. O. Box 621.

S. A. STETSON & CO., 173 Tremont St., 6 Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

FULLER, DANA, & FITZ,

HONORIN PARA, OF 1112,
110 NORIN STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The UNION
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDER BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLET STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER, PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BESJ. SOYES, Agent,

CAPE ANN GRANITE COMPANY
GRANITE BUILDING AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAYING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
QUARTIES: BAY VIEW, GLOUCESTER, MASS.
JORAS B. FRENCE, PAGE
SCOTT WEBBER, Supt.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE PIXTURES,
BOSTON.
Lowest Estimates for furnishing Private and Public Bulldings and Churches.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTON.

MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, SEAR TERMONT, BOSTON.

HENRY B. JONES & CO. etailers of Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
264 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimate made, and cut stone work of every description promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &C., No. 26 West 14th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 129 Trement Street Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business

PROPOSALS.

DREDGING. — Proposals for Dredging in Patansco Biver will be received at the United States Ingineer's Office, Third Story Union Bank Building, Fayette, near Charles street, Baitimor. Md., antil noon of November 1, 1876, and opened immediately thereafter. The right to reject my bid is reserved. Blank forms, specifications, and any desired informati u can be had on annolication to that office. WM. P. CRAIGHILL, Msjor of Engineers.

PROPOSALS.

SCHOOL HOUSE. — Sealed proposals will be received by the School Tr stees of the Twenty-second Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, until Tuesday, the slist day of October, 1876, and until 4°clock, P.M., on said day, for the crection of a new School House on the south side of West 58th Street, one hundred feet east of 10th avenue. Plans and specifications may be seen at the office of the Superintendent of Scho.l Buildings, No. 164 Grand Street, third fitor.

Superintendent of Scholl Bullumbe, and third firor.

Proposals must state the estimate for each branch of the work separately, and be indorsed "Proposal for Mason Work," Proposal for Carpenter Work, "Proposal of Painting."

Work.

Troposal for carpenset From:

Two responsible and approved sureties, residents of this city, will be required from each succe sful bidder.

The parties submitting a proposal, and the parties proposing to become sureties, must each write his name and place of residence on said proposal.

The Trustees reserve the right to reject any or all of the proposals submitted.

JOEL W. MASON,
JAMES R. CUMING,
ADNA H. UNDERRILL,
WALTER CARTER,
WALTER CARTER,
NEW YORK, Oct. 16, 1876.
DEWEY DAYS.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

FOR MARBLE FLOORING TILES, Address GEO. BARNEY, Swanton, Vt. MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOODS MANTELS, AND ALL FIRST-CLASS CABINET WORKS.

WALL.—Proposals, in triplicate, with a copy of this advertisement attached, will be received at the Office of National Cemeteries, Washington, D.C., until Wednesday, Nov. 13, 1876, for the construction of enclosing w. 18s of briek or ston- around the National Cemeteries at Yorktown, Va., and Beaufort and Florence, S.C. Copies of plans and specifications may be seen, and blank forms of proposals procured, at this office, and at the Quartermaster's Offices in New York City (corner of Houston and Greene Streets), at Fort Mouroe, Va., Charleston, S.C., Louisville, K.y., Baltimore, Md., and at the Cemeteries above named. Proposals should be indexed, Froposals for Walls for National Cemeteries, and addressed to the underslened. The Section of the Cometer of the Comet

A. F. ROCKWELL, Captain and A. Q. M.

TIES. — Sealed Proposals will be received at the Office of the Denver and San Juan Raifroad Construction Company, in Denver, Col., until the 11th of November next, for furnishing lies for sections 9 to 53 inclusive, forty-four miles on the Denver, South Tark, & Pacific R. R., 2800 ties to each mile, distributed, 7 ties to every 13 feet, on the edge of the road-bod, ready for track-lyers; alze of ties, 1 inches face. 7 inches thick, 6% feetlong, barked. May be delivered any time after the road-bod, but none will be received or paid for before April next. Payments will be made mouthly in cash. Bidders may office to furnish ties on any number of the ties, for fulfill each of contract. N. B. — Sections 9 to 20 are between Beat Creek and mouth of Platte Canon; sections 21 to 29 are from mouth of canon to forks of Platte; sections 30 to 39 are between Beat Creek and mouth of Platte and mouth of Buffalo Creek; and sections 40 to 33 inclusive are between the mouth of Buffalo Creek and Bailey's ranch. The Company reserves the right to reject any or all bids.

J. W. SMITH, President.

FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of country," Minimum of metal, maximum of stiffness, maximum of country, "Minimum of metal, maximum of stiffness, maximum of country," Minimum of metal, maximum of stiffness, maximum of country, "Minimum of metal, maximum of stiffness, maximum of country," Minimum of metal, maximum of stiffness, maximum of country, "Minimum of metal, maximum of stiffness, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of metal, maximum of country," Minimum of metal, maximum of country, "Minimum of maximum of country, "Minimum of maximum of country, "Minimum of maximum of cou

FRED REARICK, Comptroller of City of Quincy, Ill.

PROPOSALS.

PROPOSALS FOR MATERIALS TO BE SUPPLIED TO THE NAVY YARDS UNDER THE COGNIZANCE OF THE EUREAU OF CONSTRUCTION AND REPAIR.

COGNIZANCE OF THE BUREAU OF CONSTRUCTION AND REPAIR.

MAY DEPARTMENT,
WASHINGTON, D.C., September 28, 1876.
Sealed proposals to furnish timbs: and other materials to the Navy for the fascal year ending June 30, 1877, will be received at this Bureau until twelve o'clock, and o'Thurbay, Nov. 16, 1876, at which time the bids will be opened and the proposals must be addressed to the "the for the Bureau of Construction and Repair, Navy Department, Washington," and must be endorsed "Proposals for Timbr, c.c., for the Navy," that they may be distinguished from ordinary business letters.

To prevent confusion and facilitate the opening of the bids, parties bidding for supplies at several yards will enclose their bids in separate envelopes for each yard, indored with the name of the yard for which the bid is made.

Printed schedules for such classes as marties deal in and.

dors.d with the name of the yard for which use one is made.

Printed schedules for such classes as parties deal in and intend to bid for, together with instruction for bidders, giving the forms of proposal, of guarantee, and of certificate of guarantors, with printed forms of offer, will be furnished to such persons as desire to bid on application to the Commandants of the respective Navy Yards, and those of all the yards on application to the Burcau.

The Commandant of each Navy Yard, and the purchasing Paymaster for each station, will have a copy of the schedules of the other yards, for examination only, in order that persons who intend to bid may judge whiether it is desirable to make application for any of the classes of those yards.

decirable to make application for any of the classes of those yards.

The proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class, should the interest of the Government r quire it, before the execution of the contract. All applications for information, or for the examination of samples, must be made to the Commandants of the respective yards.

Bids or offers will be r ceived only from parties who are bond fide dealers in, or manufacturers of, the articles they offer to furni-h. The guarantors must be certified by the Collector of internal levenue for the district in which they reside contract will be awarded to the person who makes the lowest bid and gives the guarantee required by law, the Navy Department, however, reserving the right to reject the lowest bid, or any which it may deem exorbitant.

the Navy Department, however, reserving the right to reject the lowest bid, or any which it may deem exorbitant.

Under the provisions of Section 3,722 of the Revised Statutes, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received.

Sureties in the full amount will be required to sign the contract, and their responsibility must be certified to the satisfaction of the Navy Department.

As a additional security, twenty per centum will be withheld from the amount of the bills until the contracts shall have been completed, and eighty per centum of the amount of each bill, approved in triplicate by the Commandants of the respective vards, will be paid by the Paymaster of the station designated in the contract or, if none is specified, by the Paymaster of the station nearest the yard where the goods are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

the goods are delivered, within ten days after the warrant for the same shall have boen passed by the Secretary of the Treasury.

The classes of this Bureau are numbered and designated as follows:
The classes of this Bureau are numbered and designated as follows:
The classes of the same and the same as th

68, 69, 70, 71, 73, 77, 18. MARE ISLAND. Nos. 16, 24, 35, 42, 43, 43, 49, 52, 53, 54, 55, 66, 57, 58, 59, 60, 63, 64, 65, 68, 69, 70, 71, 73, 78.

CONVICT LABOR. - Sealed Proposals will CONVICT LABOR. — Sealed Proposals will be received at the Commissioners' Office, Joliet, Ill., by the undersigned, up to 2 o'clock, F.M., Nov. 10, 1876, for the labor of four hundred convicts. These men are ablebodied, and adapted to most any and all kinds of labor, and a large portion of them to stone-cutting. Ample shop room and steam power will be famished. Contracts to run not less than five nor more than eight years. All proposals must be accompanied by a good and suffice at bond conditioned that contract and bond will be entered into if proposals accepted. For furt er par lexilars, address the undersigned, or R. W. MCCLAUCHEN, Warden at the Prison.

MODBERT M. TATLOR,
JOHN M. SOUTHWORTH,
ROBERT D. NOLEMIA.

Commissioners Illinois State Penitentiary.

VIOLLET-LE-DUC'S WORKS.

DISCOURSES ON ARCHITECTURE.—
By VIOLLET LE-DUC. Translated, with an Introducture of Architectus. Fully illustrated. Ivol. royal 8vo. \$5.00.

THE STORY OF A HOUSE. Illustrated by the Author. Translated by George M. Auvilla 1 vol. 8vo, beveled boards, red edges, 48.00.

2. For she led the Moossellers. Sent postpaid, on receipt of price, by the l'ubishers.

JAMES R. OSGOOD & CO., Bostox.

6.

BE

to be to be

the the sed in the sed

. 64,

71,

68, 64,

ill ill., for lement als dier-

3.

ed LE. of

nan	24 x 42 - 24 x 40 40 00 36 00 32 00 Spruce timber.	50 0 55 0 60 0 40 0
Oct. 27, 1876. Cargo Afload Sey	15 x 24 - 15 x 32 30 00	20 0 3 1 20 0 3 45 0 50 0 50 0 60 0 40 0
Section Sect	24 x 42 - 24 x 40 40 00 36 00 32 00 Spruce wan strips 13g 24 x 42 - 28 x 42 44 50 40 00 36 00 Hemlock boards each 16g 26 x 46 - 30 x 48 46 50 42 00 38 00 Hemlock joist, 2½ x 4 15g 25 x 54 - 31 x 56 50 00 46 50 42 00 Hemlock joist, 2½ x 4 15g 25 x 54 - 31 x 56 50 00 46 50 42 00 Hemlock joist, 3 x 4 16g Hemlock joist, 3 x 4 16g Memlock joist, 3 x 4 16g Hemlock j	20 0 3 3 45 0 45 0 50 0 50 0 60 0 40 0
Section Sect	24 x 42 - 24 x 40 40 00 36 00 32 00 Spruce wan strips 13g 24 x 42 - 28 x 42 44 50 40 00 36 00 Hemlock boards each 16g 26 x 46 - 30 x 48 46 50 42 00 38 00 Hemlock joist, 2½ x 4 15g 25 x 54 - 31 x 56 50 00 46 50 42 00 Hemlock joist, 2½ x 4 15g 25 x 54 - 31 x 56 50 00 46 50 42 00 Hemlock joist, 3 x 4 16g Hemlock joist, 3 x 4 16g Memlock joist, 3 x 4 16g Hemlock j	45 0 50 0 50 0 60 0 100 0
	24 x 42 - 23 x 42 44 50	50 0 55 0 60 0 40 0
A A A A A A A A A A	Sizes above, \$45 per box extra for every five inches, An additional 10 per cent will be charged for all glass and one than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will length, and not making more than 81 united inches bracket piscount to the trade, 60 and 20 @ 60 and 25 per cent. AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th. Sizes above 52 inches in lack Walnut, \$20 and 20 displayed Sizes. 1st. 2d. 3d. 4th. Sizes. 3d. 3d	50 0 55 0 60 0 40 0
A A A A A A A A A A	Sizes above, \$45 per box extra for every five inches, An additional 10 per cent will be charged for all glass and one than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will length, and not making more than 81 united inches bracket piscount to the trade, 60 and 20 @ 60 and 25 per cent. AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th. Sizes above 52 inches in lack Walnut, \$20 and 20 displayed Sizes. 1st. 2d. 3d. 4th. Sizes. 3d. 3d	50 0 55 0 60 0 40 0
	Sizes above, \$45 per box extra for every five inches, An additional 10 per cent will be charged for all glass and one than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will length, and not making more than 81 united inches bracket piscount to the trade, 60 and 20 @ 60 and 25 per cent. AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th. Sizes above 52 inches in lack Walnut, \$20 and 20 displayed Sizes. 1st. 2d. 3d. 4th. Sizes. 3d. 3d	50 0 55 0 60 0 40 0
	Sizes above, \$45 per box extra for every five inches, An additional 10 per cent will be charged for all glass and one than 40 inches wide. All sizes above 52 inches in length, and not making more than 81 united inches, will length, and not making more than 81 united inches bracket piscount to the trade, 60 and 20 @ 60 and 25 per cent. AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th. Sizes above 52 inches in lack Walnut, \$20 and 20 displayed Sizes. 1st. 2d. 3d. 4th. Sizes. 3d. 3d	50 0 55 0 60 0 40 0
ton — Brown	length, and not making more than 81 united inches, will be charged in the 84 united inches bracket biscount to the trade, 60 and 20 @ 60 and 25 per cent. bisc	60 0 40 0 100 6
ton — Dark. — — @ 9 0 ton — Bed . — @ 10 0 ladelphia	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	40 0
CEMENT.	$\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	100 €
CEMENT.	18 x 22 13 25 12 00 10 75 9 50 Whitewood, %ib 30 00@ 0 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25 Whitewood, % panels 35 00@	85 €
CEMENT.	18 x 22 13 25 12 00 10 75 9 50 Whitewood, %ib 30 00@ 0 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25 Whitewood, % panels 35 00@	150 0
CEMENT.	18 x 22 13 25 12 00 10 75 9 50 Whitewood, %ib 30 00@ 0 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25 Whitewood, % panels 35 00@	80 0
CEMENT.	18 x 22 13 25 12 00 10 75 9 50 Whitewood, %ib 30 00@ 0 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25 Whitewood, % panels 35 00@	70 0
endare	5 25 x 30 - 24 x 30 19 75 16 75 13 50 Whitewood, % panels	38 (
nan	0 01 - 00 04 - 00 00 17 00 14 00	10 (
THE R COUNTY CO. A.	5 21 x 28 - 24 x 36 20 25 17 50 14 00 — Shingles, extra shaved pine, 16in 8 50@	9 8
ne's fine		8 6
FIRE BRICK.	30 x 52 - 30 x 54 27 25 24 00 18 75 - Shingles cypress 24 x 7 20 0000	22
Welsh 840 00 @	30 x 56 - 34 x 56 29 50 26 25 22 00 — Shingles, cypress, 20 x 6	15 (
tch	30 00 00 00 00 00 00 00 00 00 00 00 00 0	40
DOORS, WINDOWS, AND BLINDS.	Above \$12 per box extra for every five inches. Discount, 70 @ 75 per cent. Locust posts, 8ft	-
Doors, Raised Panels, Two Sides.	Locust posts, 12ft 29@	
x 6.0 1¼ in. \$1 00 —	Par square foot net oach	
x 6.6	3/4 Fluted plate \$0 22 1/2 Rough plate \$0 65 PAINTS AND OILS.	
x 6.8 1 125 —	% Fluted plate \$0 22 % Rough plate \$0 65 3-le Fluted plate \$0 3 % Rough plate 1 10 % Fluted plate \$0 3 % Rough plate 1 15 % Rough plate \$0 1 Rough plate 1 15 % Rough plate \$0 1 Rough plate 1 10 % Rough plate \$0 1 Rough plate 1 80 % Rough plate \$0 Rough plate 1 80 %	80
Doors, Moulded. 1½ in. 1½ in. 1½ in.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22
x 6.0 \$1.52	1. 1 80 Whiting	1
x 6.6 1 87 \$2 38 — x 6.8 1 92 2 40 —	Zinc, white, American, dry 61/20	
x 6.10 1 96 2 47 —	CEDAR. Zinc, white, American, in oil, pure. 114/26 Cuba	
x 7.0	Mexican, small	
x 7.0 2 09 2 68 3 3	Herican, large	
x 6.10 2 20 2 78 3 5 x 7.0 2 30 3 02	Warren French, dry (gold)	1
GLAZED WINDOWS.	St. Domingo, crotches, ordinary to Venetian red. English (gold). Dowt 185 (iii)	2
imen- 12 Lights. 8 Lights. 4 Lights.	good	
ons of ndows. 11/pl. 11/cc.	St. Domingo, logs, small 0 6 @ 0 10 Vermilion, Am. Quicksilver (gold) 70 @	1
x 3.6\$1.00 1.08 — — — —		5
x 3.101.15 1 23 1.32 — 1.35 — 1.69 1.61 — 1.69 1.61	Cuba logs large 101/20	
x 4.101 56 1.64 1.77 1.80 - 2.02. 2.15	Frontera, Mexican, large. 0 12 @ 0 16 Orange Mineral English, gold. 115 @ Frontera, Mexican, amall. 0 7 @ 0 10 Paris green, pure, dry. 25 @ 0 10	
x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31 x 5.6— 1.84 2.02 2.08 2.26 2.31 2.49	Other Mexican 0 6 @ 0 10 Putty pure P % \$0 02%@	
x 5.10 1.94 2.13 2.19 2.38 2.43 2.62	Honduras 0 5 @ 0 9 PLASTER PARIS	
x 4.61.59 1.66 1.80 — — 2.03 2.17 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53	Duty. — 20 per cent. ad val. on calcined; lump,	
x 5.61.88 1.96 2.19 2.16 2.39 2.42 2.65 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82	Rio Janeiro, ordinary to good P lb. 0 2½@ 0 3½ Nova Scotia, white	\$30
means counted checked, plowed and bored for	Bahia, ordinary to good 0 2½@ 0 3½ Calcined, Eastern and city D bbl. 1 25 @	1
ghts. -Bed Sash, Glazed	Bahia, good to fine	2 :
OUTSIDE BLINDS.	Monduras	
lineal foot, up to 2.10 wide \$ @ \$2 2	5 Lignumvitæ, small,	
lineal foot, up to 3.1 wide	Eg Lignumvitæ, small, P ton. 12 0 @20 00 Purple roofing slate, P square. \$7 50 @ Cignumvitæ, large	8
lineal foot, painted and trimmed 0 40 @ 0 5	Red slate	12
Inside Blinds.	Duty. — Bar. 1 to 114c. 49 th: Railroad, 70c. 49 100th: City.	6
lineal foot, 4 folds, Ash or Chestnut @ 0 9	Boiler and Plate, 1½c. か 動; Sheet, Band, Hoop and Peach bottom (nominally)	10
lineal foot, 4 folds, Ash or Chestnut	10 3c. Ph; Galvanized, 2½c. Ph; Scrap Cast, \$6 P ton; delivered	
WINDOW FRAMES.	iron to pay a less duty than 35 per cent ad val.	
to 3.4 x 7.2, put together	Pig. Scotch, Coltness	
HAIR Duty free.	Pig. Scotch, Glengarnock 27 00@ 28 00	20
tle	[8] Pig. Scotch, Eglinton 25 00@ — TIN PLATES.—Duty, 1 1-10e, P b. O Pig. American, No 1 22 00@ 26 75 I. C. charcoal, 10 x 14. P box (cur.) \$8 50 @ Pig. American, No 2 20 00@ 21 00 L. C. coke, 10 x by 14. 7 25 @	#8
LIME.	Pig, American, No. 2	8
te, common, cargo rate	Bar, refined, English and American — 19 002 20 00 1. X. charcoal, 10 x 14 10 75 (a) 9 25 (a)	11
te, finishing	- Bar, Swedes, assorted sizes (gold) @ 100 00 I. X. charcoal, 14 x 20 11 75 @	12
kland, finishing 1 10 @ —	Store prices, cash. I. C. coke, 14 x 20	9 7
and	Bar, Swedes, plow sizes	
GLASS.	in v % to the Silver Si	00
uty Window, Polished Cylinder, and Crown, no	Bar, refined, 1% to 6 x % & 5-16in 27-10@ Sneet (gold)	#0
r 10 x 15in., 21/c. P sq. ft.; larger, and not over 1 in., 4c. P sq. ft.; larger, and not over 24 x 30in, 6c	Large rounds, 2% & 2%	-
1. ft.; above that, and not exceeding 24 x 60in., 20c	Scroll	
q. ft.; above that, and not exceeding 24 x 60in., 20: q. ft.; all above that, 40 ct. \$\mathbb{P}\$ sq. ft. On Unpolishe inder, Crown, and Common Window, not exceeding	Band, 1 to 6 in. x 3-16 to No. 12 29-10@ MANUFACTURING COMPANY.	
15in., sq., 14c.; over that, and not over 16 x 24, 2c.	Rode & to 3-16in 26-10 47-10 INTERIOR WOODWORK,	
r that, and not over 24 x 30, 2%c.; all over that, 3c	Hoop, % x No. 22 to 1 & 1% x 13 & 14 55-10@ 8 3-10 DOORS AND TRIMMINGS, FITTINGS OF OFFICES,	
FRENCH WINDOW. List of March 1, 1876.	Hoop, % x No. 22 to 1 & 1% x 13 & 14 5 5-10@ 8 3-10 Nall rod. Sheet, Russia, as to assortment (gold). 11% @ 111/2 Decorations and Uphol	STE
Single Thick - per box of 50ft.	Sheet, singles, doubles, and trebles, Lexington Avenue, 41st and 42p Steen	
Sizes. 1st. 2d. 3d. 4th. 8-7 x 9\$11 00 \$10 50 \$10 00 \$9 5	6 Sheet, doubles and trebles, charcoal 5 @ 514	
10 - 10 x 15 12 00 11 00 10 50 10 0	U Sheet, galvanizedList 30@ 45 per cent dis.	Penn
14 - 12 x 16 13 50 12 50 11 50 10 7 18 - 14 x 24 14 00 13 00 12 00 11 2	by Conneccio and Parmediano. Reproduce	ed by
24 - 15 x 32 17 00 16 00 14 00 13 0	Hallotyna Process from the "Gray Collection of	
32 - 20 x 30 18 00 16 50 14 50 13 5 30 - 15 x 38 19 50 18 00 16 00 —	LUMBER. ings," Harvard University.	
34 - 22 x 36 20 50 19 50 17 00	Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 00 This volume contains twenty-four Plates, included the contains t	
36 - 24 x 40 23 00 20 50 18 00 - 42 - 28 x 42 25 50 22 50 20 50 -	- Pine, good	
46 - 30 x 48 26 50 23 50 22 00	Pine, shipping box. 18 000 22 00 Two Deacons, and Saint George. Of Correggio's F	
50 — 32 x 52 28 00 25 50 23 00 — 54 — 34 x 56 29 00 27 00 24 00 —	Pine, tally plank, 114, 10in., dres'd each 40a 43 Coronation of the Virgin, groups of Cherubs and	l Ang
58 - 34 x 60 31 50 29 00 26 00 — 60 - 40 x 60 35 00 32 00 29 00 —	- Pine, tally plank, 1½, 2d quality 37a 38 A rare and valuable collection. Quarto. Price, \$1 - Pine, tally planks, 1½, culls 25g 28 JAMES B. OSGOOD & CO.,	0.00.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash.

For Insane Hospitals, Fire Proof Buildings, &c.



D. M. MEEKER & SON.

Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver, and Composition; also Patterns a specialty.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Lo

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade. It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices

MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING .

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement preclude all possibility of overflow, by which buildings are so ofted damaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our

We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, humediately on their failure to fulfil the following conditions, provided the trap is kept in running order:

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No ever gas will escape from the drain or pipe, or any offensive-mel arise from them.

4th. These bowls will remain free and clear from any accumulation of soan or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO.,

40 Oliver Street, Boston.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Class

ENGLAND-Vol. I. (Aldborough - Furness Abbey. Vol. II. (Glastonbury-Nottingham.) Vol. III. (Oakley-

Tynemouth.)

"We can conceive of no series so charming, when colleted, as this, or one which promises to become so polar."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE. THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the pe

The twenty-third and concluding volume of the popular "Little Classic" ILAWTHORNE. With Index of Subjects in the entire series. \$1.25.

Each of the twenty-three volumes contains a new Vignette Illustration.

"We cannot sufficiently praise this splendid edition of Hawthorne. The publishers are to be congratulated on their artistic success with it, and it should be in every library."—New Haven Journal and Courier.

ILLUSTRATED LIBRARY HAWTHORNE. FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Illustrations. 12mo. \$2.

Havilorne's Works, in 12 volumes, 12mo, each containing two Illustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING, By Dr. John Brown. Illustrated. Flexible cloth. 50 cts. A beautiful Pocket Edition of two of the most charming Stories in the English language. "Rab" and "Pet Mar-jorie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll.

Author of "Alice's Adventures in Wonderland," &c., with nine llustrations by Henry Holiday. 1 vol., 32mo. 50 cents.

A cheap edition of a curious and entertaining little book, in which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujuba, Snarks, Boojums, and other grotesque and amusing folks. The readers of "Alice's Adventures" will need no second invitation to read "The Hunting of the Snark."

, For sale by Booksellers. Sent, post-paid, on receipt of rice, by the Publishers.

JAMES R. OSGOOD & CO., Boston. E. P. DUTTON & CO., No. 713 Broadway, New York, ial Agents for J. R. O. & Co's. Publications.



National Fine Art Foundery,

218 East 25th Street, New York, Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our art

STEAM HEATING.

LE BOSQUET'S

STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to of dwellings and public buildings has become a recognize fact; and it needs only that its cost shall be brought with the reach of those of moderate means, to make it deserved popular. This end we have reached with our Boiler, nowever by any sacrifice in quality of material employe or workmanship, but by a simple combination of part whereby we accomplish the desired object, securing econy both in material and labor. Our Portable Boiler, especially, is easy to erect, efficient in operation, and modera in cost. Parties who have a preference for this method heating should examine this Boiler at our salesrooms. has been in practical operation in buildings and privar residences the past winter; and its working has been en nently satisfactory in every respect. We issue a Pamphl with a fine description of the Boiler, which will be sent any address upon application. Manufactured by

LE BOSQUET BROS.

Haverhill, and 14 Bedford Street, Boston.





CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET. NEW YORK.

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE

TRACING CLOTH.

TRACING PAPER.

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper.

English and French Crayon Paper, Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &co

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.



PAROUET FLOORS.

The National Wood Manufing Co. WOOD CARPETING,

50 Broadway, New York. Three-Cent Stamp for Desi Brushes for Waxing Floors.



(ESTABLISHED 1944.1

PARLOR GRATES

Made low or half low down hard or so The fines

H. M. CREAMER.

86 North Street, Boston Send for Price List. arties are living within fi-undred miles of Boston, ill pay tocall and examin

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and JAMES EDMOND & CO. Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon,

Fred. Reed,

E. Hixon, jun.

UPS AND DOWNS ON LAND AND WATER. Oblong folio. \$10.00.
"Turning over these pages is il kee rathering around a fire-side to listen to the bright and entertaining stories of a friend which as travelled and kept his eyes well open. Only Mr. Hoppin's penell is more eloquent and witty than most men's instein to a distribution of the state of th

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

*** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Bostos.



J. & R. LAMB.

CHURCH FURNITURE

Vorkers in Wood, Metal and Stone for Church purpose

Hiustrated Catalogues Post Free.
Wood Work | Metal & Stone Work | Banners & Decoration 10 cts. 10 cts.

BURDITT & WILLIAMS.

MANUFACTURERS AND DRALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from from architects' drawings. 20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET



ROETH & MAY. FURNITURE AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.

MANUFACTURERS AND IMPORTERS OF FIRE CLAY GOODS,

FIRE BRICK AND TILE,

SEWER AND DRAIN PIPE

BOSTON FIRE BRICK WORKS,

WHARF, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

W. J. McPHERSON & CO.,

Ecclesiastical

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 56 Washingon st; Pitkin Bros. (Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 21 Washington st; B. L. Solomon & Sons, 49 Franklin street.

Providence, R. I.—Belcher Bros. 27 Weybosset st.

Providence, R. I.—Belcher Bros. 27 Weybosset st.

J. Fillotson & Co. S Dey st; O. A. Nathusius, 220 Bovery; B. L.

Johnson & Sons, 639 Broadway; E. R. Krumm, 121 Essex street; has. E. Kugler, 10 Division st. Speyer Bros, 119 Bowery; W. F.

Jabinger, 198 Grand st; C. A. Stock, 116 Wooster street.

Brooklyan, (E. D.) N. Y.—Hermann Weber, 134 Graham av.

Albany.—Maurice E. Viele, 41 Sate st.

Rocheaster.—Follock, Weaver, & Co., 17 Buffalo st.

Philatelphia.—Thomas Thompson, Sons, & Co., 268 S. 24; Nobill, Brown, Nobilt, E. Co., 228 S. 43; B. L. Middleton, 817; 20, st; B. L. Solomon & Sons, 31 N. 24 st; F. A. Bueren, 635 E.

Oleveland, O.—George Worhington & Co., 50 Water st., vin Bingham & Co., 149 Water st.
Vin Bingham & Co., 140 Water st.
Vin Bingham & Co., 140 Water st.
Vin Betrott. — Binh, Ducharme, & Co., 160 Woodbridge street.
St. Louts. — Geo. A. Rubelmann & Co., 167 W. 6th st.
Vin Bington. — F. F. 180 Water st.
Vin Bington. — F. 180 Water st.
Vin Bington. — Water st.
Vin Bington. —

ur goods can be purchased of the above Agents at the

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE. No. 1299 Washington Street,

BOSTON.

BOSTON.

P. TOLMAN & E. A. HUNTING,
S. BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON.

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO.,

-	
WINTHROP	SQUARE Boston.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING

cents per line (agate), or \$1.7										
insertion.										
One inch, one month .					0				\$7 00	
One inch, three months			0						20.00	
One inch, nine months.									58.00	
One inch, one year		4							70.00	
On other pages, 10 cents pe	T	lin	8	eac	h	ins	ег	tic	on, or	\$1.4
per inch.										
One inch, one month .			0						\$5.60	
One inch, three months									16.00	
One inch, nine months										
One inch, one year										
No extra charge for cuts, or i	OF	ad	ve	rti	se:	me	nti	1	hat oc	cupi
more than one column in widt										

Publishers' Department.

Classified Advertisements.

This week the plan is adopted of printing the names of advertisers in the American Abchitect and BUILDING NEWS, each under his appropriate head, the list appearing in this department. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to cataprofessional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once appreciate the excellence and con-

venience of the arrangement.	
ARCHITECTURAL BOOKS. Pa	ıge.
A. J. Bicknell & Co., New York	iv
ARCHITECTS' AND ENGINEERS' STATIONERY, &c.	
Wadsworth Bros. & Howland, Boston	v
ARTIFICIAL WOOD ORNAMENTS.	
W. B. Gleason & Co., Boston	v
ARCHITECTURAL SCHOOL.	
Mass. Institute Technology, Boston	vi
Builders' Hardware.	
Burditt & Williams, Boston	V
Deve pepe and Pear Perage Improvens	
Tolman & Hunting, Boston	V
BUILDING STONE.	
BUILDING STONE. Charles P. Williams, New York Cape Ann Granite Company, Boston	5
	ii
BUILDERS IN IRON.	
George Dwight, Jr. & Co., Springfield	ii
CABINET FURNITURE AND UPHOLSTERY.	
Edward Hixon & Co., Boston	V
CHURCH FURNITURE.	
J. & R. Lamb, New York	V
CHURCH AND HALL OBGANS.	
New England Organ Co., Boston	V
CONTRACTORS AND BUILDERS.	
W. H. Warren, Boston	viii viii
CHURCH ORGANS.	
E. & G. G. Hook & Hastings	iv
DESIGNING AND WOOD ENGRAVING.	
W. J. Dana, Boston	iv
DRAIN PIPE.	
N. E. Drain Pipe Co. Boston	ii
Portland Stone Ware Co., Boston	10
ELEVATORS, STEAM ENGINES, &c.	
Whittier Machine Co., Boston	1
ELEVATORS.	
Tufts' Elevator Works, Boston	1
ENAMELED SLATE MANTELS, &c. J. W. Grigg, Boston	
J. W. Grigg, Boston	VI
ELECTRIC BELLS, ANNUNCIATORS, &c.	
S. W. Fuller, Boston	8
FELT ROOFING. N. E. Felt Roofing Co., Boston	22
	3.1
TIN-LINED IBON PIPE. Tatham & Brothers, New York	
FIRE-PROOF BUILDINGS.	1
Fire-Proof Building Co., New York	2
FRO-11001 Dunding Co., New 10th	1

FUBNITURE, WOOD MANTLES, &c. Pag C. J. Soyard, Boston	ge.	1
C. J. Soyard, Boston	ii	L
FURNITURE AND DECORATION.		1
Roeth & May, Boston	v	8
Fresco Painters.		6
W. J. McPherson, Boston	1	1
Philip A. Butler, Boston	i	1
Wallburg & Sherry, Boston.	1	0
William S. Brazer, Boston	i	1
GALVANIZED IRON CORNICES.		1
Smith & Van Noorden, Boston	9	Y
GAS FIXTURES.	-	1=
Mitchell, Vance, & Co., New York	1	6
S. A. Stetson & Co., Boston Archer & Pancoast Manuf. Co., New York	11	ı.
M. W. Peirce & Co., Boston	ii	
IBON WINDOW SASHES.		A
D. M. Meeker & Son's, Newark, N.J	iv	
IRON MERCHANTS.	-	F
John H. Reed & Co., Boston	4	
IBON BRIDGES.		
King Iron Bridge and Manu'f. Co., Cleveland, O	1	F
IRON WORK FOR BUILDINGS.		K
J. B. & J. M. Cornell, New York	1	
LINEN HOSE.	-	
New England Linen Hose Manuf'g Co., Boston.	1	1
LOCKS AND ORNAMENTAL BRONZE HARDWARE	-	8
Yale Lock Manuf'g Co., Stamford, Conn vi	iii	8
MARBLE FLOORING TILES.	-	
George Barney, Swanton, Vt	ši	3
ORNAMENTAL AND CUT GLASS.	-	0
J. Cartisser, New York	ii	t
ORNAMENTAL IRON WORKS.		0
	iii	g C
Bubier & Co., Bostonv	i	61
ORNAMENTAL BRONZES.		E
Mitchell, Vance & Co	1	is
Archer & Pancoast Manuf g. Co., New York	.1	L
PAPER HANGINGS.	14	0
H. B. Jones & Co., Boston	22	S
Plumbers' Materials.	27	
Hawthorne & Tucker, Boston	vii	p
PARLOR GRATES.		T
H. M. Creamer, Boston	v	
PARLOR GRATES, BRASS FENDERS AND IRONS, &c.		
Murdock Parlor Grate Co., Boston	iv	
ROLLING WOOD SHUTTERS.		
Wilson & James, New York v	ii	
ROOFING PLATES AND METALS.		
Fuller, Dana, & Fitz, Boston	11	B
SIGN AND ORNAMENTAL PAINTERS.		_
Warner Bailey, Boston	1	r
SPRING HINGES.		
Am. Spring Butt Co., New York v	ii	

	Warner Bailey, Boston 1
V	SPRING HINGES.
	Am. Spring Butt Co., New York vii
V	STAINED GLASS.
V	Falck & Schwabe, Boston
1	STEAM HEATING APPARATUS.
	Le Bosquet Bros., Boston iv
	STEEL SHUTTERS.
•	Clark & Company, New York viii
v	SKYLIGHTS.
	The Hayes Patent, New York viii
5	STEAM PUMPS.
á	Geo. F. Blake Manufacturing Co., Boston ii
	STONE DRESSING WORKS.
1	George Brown, Newark, N.J ii
	TILES.
V	T. Aspinwall, New York 1 C. A. Wellington, Bostonvili
r	VENTILATION.
	W. H. Kimball, Boston ii
v	VENEERS.
	Palmer, Parker, & Co., Boston viii
i	Wood Carpeting, &c.
i	The National Wood Manuf'g Co., New York v

Daniel Lawrence & Sons' Show-Case.

L. S. Moore & Co , Boston iv

WELLINGTON'S PATENT WASH-BOWL

Persons who have visited the Centennial Exhibition
will recognize in the extra heliotype illustration which
necompanies this number, the elegant show-case of
Daniel Lawrence & Sons, designed and manufactured
by Edward Hixon & Co., of this city. Messrs. Hixon
& Co. manufacture some of the most beautiful and
elaborate sets and pieces of furniture to be found in
the East Gallery of the Main Building.
For particulars address WILLIAM R. WARR, Esq., Profesor of Architecture, Opt. Samuel Executary, Boston, Feb. 1, 1876.

The advertising columns of the AMERICAN ABCHITECT AND BUILDING News are used as a DIRECTORY by the architects and builders of the country. Our patrons receive numerous orders from the cards which they insert, and from parties whom they would not otherwise reach. Specimen copies of the paper are sent free.

BOSTOR, FED. I. ISIG.

NGRAVINGS FROM LANDSEER. Reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham fied they insert, and from parties whom they would not otherwise reach. Specimen copies of the paper are sent free.

BOSTOR, FED. I. ISIG.

NGRAVINGS FROM LANDSEER. Reproducing with a Sketch of the Life and Works of the Artist, Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham fied been, "Chillingham fied been," "Chillingham fied been," "Chillingham fied been, "Chillingham fied been," "Chillingham fied been, "Chillingham fied been," "Chillingham fied been, "Chillingham fied been, "Chillingham fied been," "Chillingham fied been, "Chillingham fied

Centennial Awards.

Persons engaged in the manufacture of materials used in the construction of buildings, who have been awarded premiums in the Centennial Exhibition, would do well to inform architects and builders of the fact through the columns of the American Architect and Bullibing News. A little money spent in judi-cious advertising generally proves a profitable invest-ment; and the close of the exhibition gives the successful competitors a rare opportunity which they should not fail to improve.

"ZODTCHY" (BUILDER).

A JOURNAL OF ARCHITECTURE, FINE ARTS, AND ENGINEERING,

Published, since 1872, by the St. Peterseure Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

r contains from Eight to Sixteen pages of quarto, with cuts, and at least Five auto-o-lithographic plates, the titles in both Rus-

PROSPECTUS.

PROSPECTUS.

The "ZODTCHY" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Construction of different Buildings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &c., the Biography of Russian and Distinguished Foreign Architects, the Discussion of Building Laws, Critical Analysis of Architectural and Artistic Publications. The "Zodtcht" publishess Werkely Supplement and Continual Manysis of Architectural and Artistic Publications. The "Zodtcht" publishess Werkely Supplements and Education of the Content of the Capital Russian Competitions, Exhibitions, Proceedings of Architectural Societies, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisements, &c.

SUBSCRIPTION PRICE FOR EUROPE AND THE UNITED STATES, \$12.50 Park ANNUM.

Price for Advertisements: One Line, each insertion, 8 cts.
For important Advertisements, a Discount of ten to thirty per cent.
The "ZODTCHY" exchanges with all Architectural and Technical Journals.
Address.

JOURNAL "ZODTCHY," 18 OFFICER STREET, ST. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO., WINTHEOP SQUARE, BOSTON,
Receive Subscriptions for the "ZODTCHY" for the United
Nutes,

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorat-

ors, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

NORTH AMERICAN REVIEW,

OCTOBER, 1876.

- ART. I. THE SOUTHERN QUESTION. WILLIAM HENEY TRESCOT.

 II. THE WHISKEY RING. H. V. BOTNTON.

 III. VON HOLST'S HISTORY OF THE UNITED STATES. HENEY ADAMS and H. C. LODGE

 IV. AN EPISODE IN MUNICIPAL GOVERNMENT. The Shattering of the Twoed "Ring."

 C. F. WINGATE.
 - C. F. WINGATE.

 V. THE "INDEPENDENTS" IN THE CANVASS.

 VI. CRITICAL NOTICES.

\$1 50 a Number; Yearly Subscription, \$6 00. Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & Co., BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemista. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science,

PROTECT YOUR BUILDINGS.

Which may be done with one-fourth the usual expense, by

Patent Slate Paint, 265,000 COPIES ALREADY SOLD THE PAPER FOR ARCHITECTS, BUILDERS, AND

MIXED READY FOR USE.

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this slate, be made to last from twenty to twenty-five years. Old roofs can be patched and coated, looking much better, and lasting longer than new shingles without the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the of simply laying them. The paint is fIRE-PROOF age sparks or flying embers, as may be easily tested by any

IT STOPS EVERY LEAK,

and for tin or iron has no equal, as it expands by heat, con-racts by cold, and NEVER CRACKS now scales. Roofs cov-ret with Tar Sheathing Felt can be made water-tight at a mail expense, and preserved for many years. This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on thi, iron, felt, matched boards, or any smooth surface, from two quaris to one gallon are required to 100 square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition,

therefore it neither cracks in winter, nor runs in summer. On accayed slinges it fills up the bules and pores, and gves a new, substantial roof that will last for years. CUELED or WARPED slinules it brings to their places, and keeps them there. It fills up all holes in f-it roofs, stops the leaks, and, although a slow dryer, rain does not affect it a few hours after applying. As nearly all paints that are black c n am tare, be ure you obtain our genuing article, which (for shingle roofs) is

CHOCOLATE COLOR,

when first applied, changing in about a month to a unifor slate color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate Paint ever intro-duced, that will effectually prevent dampness from pene-trating and discoloring the platter.

These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.

Our only colors are Chocolats, RED, BRIGHT RED, and ORANGE.

NEW YORK CASH PRICE-LIST.

5	gallons,	can and box	50
10	41	keg 9 !	50
20	6.6	half barrel16 (K
40	4.6	one barrel30 (

We have in stock, of our own manufacture, roofing materials, &c., at the following low prices: —

1000 rolls extra Rubber Roofing, at 3 cents per square foot. Or we will furnish Rubber Roofing, Naila, Caps, and Slate 2aint, for an entire new roof, at 4's cents per square fo. i. 2000 rolls 2-ply Tarred Roofing Feit, at 1½ cents per square

not. 3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

foot.
200 rolls Tarred Sheathing, at 4 cent per square foot.
1000 barrels State Frour, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$3.00.
5000 gallons fine Enamel Paint, mixed ready for use, on inside or outside work, at \$2.00 per gallon. Send for sample card of colors.

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unless express charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantons. Drawn and engraved by A and E. VARIN. Reproduced by the Heliotype Process. I vol. quarto. Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

JAMES R. OSGOOD & CO., Boston.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-David, member of the Institute of Francisch and With admirable success by the Heliotype Produced in Action of the Control of the Pink, "and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., Boston.

Centennial Guides. The American Architect

The Visitor's Cuide

To the Centennial Exhibition and Philadelphia. Published under an exclusive contract with the Centennial Board of Finance. Containing a Map of the City, a Colored Plan of the Centennial Grounds and Buildings, and forty-eight pages of valuable and interesting information. Illustrated. 12mo. Paper cover, 25 cents. Fine edition, extra cloth, 50 cents. Also, in the French, German, and Spanish languages. Cloth, 50 cents each.

PHILADELPHIA

And its Environs.

A complete Guide to the city and its aurroundings, includ-ing Fairmount Park and the Exhibition Grounds. Revised and enlarged. With Map and 170 Hustrations. Royal 8vo. Paper cover, 60 cents.

"LEGIBLE, PORTABLE, HANDSOME, AND CHEAP."

STRANGER'S ILLUSTRATED

POCKET GUIDE TO PHILADELPHIA,

Description of the Principal Objects of Interest in and around the City, with Directions how to reach them.

PROFUSELY ILLUSTRATED.

16mo. With Map. Paper Cover, 25 Cents. Extra Cloth, 50 Cents.

JUST ISSUED.

TRAVELLERS' GUIDES.

LIPPINCOTT'S GENERAL GUIDE-BOOK TO THE UNITED STATES AND CANADA. Giving full information on those subjects interesting to travellers, with an appendix describing the Philadelphia Exhibition of 1876. Illustrated. 18mo. Extra Cloth, \$1.50.

LIPPINCOTT'S GUIDE TO AMERICAN SUMER RESORTS. New Edition. Illustrated. 16mo.

PPINCOTT'S GENERAL GUIDE FOR SETILERS IN THE UNITED NYATES. Giving a description of the resources of various States, and such information as is useful to settlers, 16mo. Extra Cloth, \$150.

LIPPINCOTT'S GUIDE TO NEW YORK CITT, HUDSON RIVER, &c. Illustrated. 16mo. Extra

. For sale by all Booksellers and Periodical Dealers, or will be sent by mail on receipt of the price by

J. B. LIPPINCOTT & CO., Publishers,



MEDIÆVAL FOLIAGE. By J. K. Col-

\$15.00 ce two volumes by Mr. Colling contain valuable intro-ductory essays on the use of Foliage in Art, with a great number of designs Illustrating the various modes in which Foliage has been employed by Architects and Decorators in different ages and nations. In their department these volumes are unrivalled.

LIENARD'S DECORATION AND ORNA-MENTATION. Specimens of the Decoration and Or-namentation of the Nineteenth Century. By LIENARD. Reproduced by the Heliotype Process. Upwards of 120 designs, rich in hints to Architects and Decorators. 1 vol. tolio, boards, \$27.00. Half morocco, cloth sides, \$30.00. JAMES R. OSGOOD & CO., BOSTOR.

HOMES AND HOW TO MAKE THEM.
By E. C. GARDNER. Illustrated. 1vol. square lamo
JAMES R. OSGOOD & CO., BOSTON.

JAMES R. OSGOOD & CO., BOSTON.

and Building News.

ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS,

EVERY SATURDAY.

BY IAMES R. OSGOOD & COMPANY.

WINTHROP SQUARE, BOSTON.

BEING devoted to the Architectural and Building intersts of all sections of the country, it offers special induce-

AS AN ADVERTISING MEDIUM.

to Manufacturers and Dealers in Builders' Materials, as well as to Decorators and those engaged in the various branches of Interior Decoration, &c.

Each number contains editorial and contributed articles Each number contains editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative ex-pedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art. A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

ber, which are contributed by architects in different parts of the United States.

Another valuable feature is now added in the publication

PRICES OF BUILDING-MATERIALS,

the list being made up just before going to press each week. The publishers respectfully request the co-operation of those professional and business men, to whose interests it is devoted, to add to the popularity and value of the "ARCHITECT," by contributing to its columns whatever may be deemed of interest to its readers.

The American Architect and Building News

Is for sale by all respectable newsdealers, and is mailed, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING.

Winthrop Square, Boston.

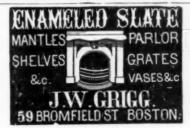


ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING in be shown looking much fresher than any other paint of

It is unequalled for beauty, durability, and economy.
OFFICE AND STORE 146 MILK STREET, BOSTON.



TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

Rolling Steel Shutters,

Fire and Burglar Proof, Are also offered at reduced rates

PRICE LIST. ## Fook Super.

1 Cs to # 1.15

3 to # 35

3 to # 45

3 to # 45

3 to # 45

4 to # 45

5 to # 45

5 to # 45

5 to # 45

6 to # 6

WILSON & JAMES,
WILSON & JAMES,

State rights for patent Shutters for sale. Agents wanted.

YALE LOCKS, "STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY. HENRY R. TOWNE, President.

Principal Office and Works Stamford, Conn. Salesroom No. 53 Chambers St., New York.

ILLUSTRATED CATALOGUES furnished free to Architects on application

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, MAHOGANY, THUYA, ROSEWOOD, etc., WHITE HOLLY,

> In Logs, Planks, Boards, and Vencers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

and at London, Paris, Vienna, Berlin, Melbourne, &c. SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS' PATENT SIX. JOHNINGS' PATENT WATER CLOSETS, ENRINGS' PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, Private Urinals Patent Latrines, and other specialties (the peculiarity of all of which is the thorough ex-clusion of sewer gas), with a large stock of general piumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT,

94 Beekman St., Works, 9 & 11 Hague St., New York. THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREFLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

Mer Manufacturer of Fine Furniture, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston.

THE NATIONAL ODE

Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

The historic occasion on which this Ode was recited, the majestic and classical char-er of the Ode, and the rare attractiveness of Mr. Taylor's penmanship which is repro-d with absolute accuracy, give peculiar value to this volume as a souvenir of a memoyear.

** For sale by all Booksellers. Sent, post-paid, on receipt of price by the publishers.

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works

For Building IRON AND WIRE RAILING, IRON CRESTINGS,

IRON STABLE FIXTURES, FOUNTAINS,

VASES, GARDEN STATUARY,

WEATHER VANES,

AND BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY,

118 MILE STREET, BOSTON. DEALERS in Architects' and Builders' Supplies should advertise in the AMERICAN ARCHITECT

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, Late Westor & Rand, (17 Pemberton Sq. Boston,)
178 DEVONSHIRE ST., AND 33 FEDERAL ST., hoston.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 499 HARRISON AVENUE, BO

Nos. 483 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS,
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

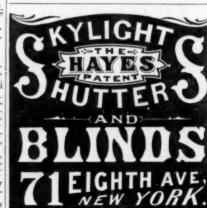
C. H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverhill St., Boston. Posts, Rails, Balusters, & Office Rails, furnished to order.

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by Scott, Steret, Colling, and others. Ivol. quarto. 64 plates. \$15.00. Containing designs for Churches, Cathedrals, Colleges, Halls, Railway Stations, Museums, Model Dwellings, Baths, &c.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Diag. M JOHN G. WHITTIER. FORMAR Trations. 16mmo. \$1.50. JAMES R OSGOOD & CO BOSTON

Franklin Press Rand, Avery, & Co., Boston.

CHILD-LIFE IN PICTURES. Containing Wenty-four Helfotype Plates, from Corneggio, Cor-LEY, REYNOLDS, GREUZE, LAWERICE, MURILLO, GERAID, RAPHAEL, and other celebrated painters,—forning a series of charming pictures of children and child-life. Quarto, Price, \$10.06. JAMES R. 086000 & CO, Bostons.







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 45.1

SATURDAY, NOVEMBER 4, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, A27 Walnut Street,

LAWRENCE, WILDE, & CO.,

MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and or-

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless we'ven, and abi: to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circul rs.—
ROBERT GEMS, Treas.—Salesroom, 359 Washington St.,
BOS FON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, d Wh ale Dealer in

Quarryman, and Wholesale Dealer in BUILDING STONE. OHIO STONE, FROM BERLIN, AMILEST, AND BEREA QUARRIES. Sole Agent for BERLIN STONE, And for Concord Granite, in New York and New Jersey. AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES.

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE

S. W. FULLER.

63 Devenshire Street, Bosto

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)

PRESSED FRONT BRICK.

MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR

ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.

Works at Savgrill on Baying Dirac N. Y.

Works at Sayerville, on Raritan River, N.J., Office, NEWARE, N.J.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

ORANGE, N.J. P. O. Box 621.

FOR SALE. — Complete set of "The Architect," London. Vols. 1 to 15, inclusive, in half morocco.

Present year not bound. Price, \$30. Address Lock-Box No. 2, Philadelphia.

President.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF I NEW YORK. Hollow Blocks of any pattern, uniting atrength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

e-proof partitions, floor arches between iron beams gs under wooden or iron beams, in the following

cellings under wooden or iron beams, in the following buildings: "Drexel. Bennett, B

LEONARD F. BECK WITH, President.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS.

STEAM ENGINES, BOILERS, AND MACHINERY,

No. 1176 Tremont Street, Boston. Office in the New England Mu'nal Life Insurance Co's.
Building, Post Office Square.
Charles Whittier, Pres. James Sturgis, Treas.

MINTON'S TILES. Established 1794.

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S ENCAUSTIC GEOMETRICAL & MAJOLICA TILES,

T. ASPINWALL, Sole Agent, 38 Murray Street, New York.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK, ORNAMENTAL IRON WORK

GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING.
HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.
Works, cor. Pratt and Scott Sis.,
BALTIMORE, MD.
NEW YORK OFFICE, 68 Beekman Street. Office 24 Light St.

JOHN H. REED & CO. IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig, and Railroad Iron. Wrought Iron Girder, Channel, and Deck Beams, Angle and T Iron.Boiler and Tank Rivets, Lap-Welded Iron Boller Tubes, Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-

MANUFACTURERS OF "TUFTS" PATENT" COM
NATION ROPE ELEVATOR,
TO BE OFERATED EITHER BY STEAM OR WATER.
The only safe and reliable machine made for Passenger
in Public Buildings and Hotels, and for business purpose
Warehouses, Stores, &c.
37 FOUNDRY STREET, SOUTH BOSTON.
OFFICE, 243 Broadway, New York.
OTHE TUFTS.
L. A. RIGELOW.

L. A. BIGELOW, Treas'r and Gen'l Manage

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

A MANUFACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE. 67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOME,

NEW YORK. Broadway cars pass the door.

MITCHELL, VANCE & CO., Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES. NEW YORK.

G AS FIXTURES OF EVERY DESCRIPTION SECOND R. HOLLINGS & CO., 547 WASHINGTON St., BOSTON.

GALVANIZED IRON CORNICES, Campbell's Pater thinney Jacks, Window Caps, &c. SMIFII & VAN NOOKDEN, 387 Harrison Avenue, Boston.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND SS CHANDELLERS. Gas Pipe, and Fitting in allibe ches. Architects, Contractors, and Builders furnished

FULLER, DANA, & FITZ,

TULLER, DANA, W. FILO,
10 NORTH STREET, BOSTON.
METAL MERCHAN'S, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid Wrought Thon Beams, and The
"Burden Best" Iron, Tensile Strength 78,900 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE. CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOVES, Agent,

CAPE ANN GRANITE COMPANY

-FurnishGRANITE BEILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & FAVING BLOCKS,
SIMMON BULDING, 40 WATER IN BOSTON.
QUARTIES OF THE W, GLOCKETE, MASS
JONAS H. FRENCH, FRENCH, LE H. H. BENNETT, Treas.

SCOTT WEBBEE, Supt.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturer ELT ROOFING COMPANY, 17 Cen

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
III AND 119 COLERT STREET,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO. F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices. HAWTHORNE & TUCKER, 16 Province Street, Boston.

BUILDERS' SUPPLIES.

MONS, C. J. SOYARD, formerly 12 West
Street, designer and maker of PURNITURE, WOOD
MANTELS, AND ALL FIRST-CLASS CABINET WORKS
OF EVERLY DESCRIPTION. 2 "A" BEACON STREET,
NEAR TREMORT, BOSTON.

NAVY DEPARTMENT.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
264 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &c., No. 236 West 14th St., New York.

VENTILATION.-IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and anapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

FOR MARBLE FLOORING TILES,

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTOK.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HABILTON PLACE,
Opp. Park-Street Church,
Boston.

WARNER BAILEY, Sign and Ornamental

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to Fire-Proof Construction; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business:

F!RE-PROOF FLOORS. The only floors that have stood FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

after the tre. Saven the city of Springhen and year.

FIRE-PROOF LATH. In the words of one of the best-known
architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lattle
ever made, either woed or fron." See New York Post
Office; State Department, Washington; Equitable Life
Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, where extred, to explain our methods, and to present for inspec-ion construction plans and estimates for any specific work

PROPOSALS.

PROPOSALS FOR IMPROVEMENT OF

PROPOSALS.

AND REPAIR.

NAVY DEPARTMENT,

BUERAU OF CONSTRUCTION AND REPAIR.

NAVY DEPARTMENT,

BUERAU OF COMPTRUCTION AND REPAIR.

NAVY DEPARTMENT,

BUERAU OF COMPTRUCTION AND REPAIR.

Sealed proposals to furnish timber and other materils to the Navy for the fiscal year ending June 30, 1871, will be received at this Burcau antil twelve o'clock, m., o'f Thursten of the proposals must be addressed to the "Chief of the Burcau of Construction and Repair, Navy Departmen, Washington," and must be endorsed to the "Chief of the Burcau of Construction and Repair, Navy Departmen, Washington," and must be endorsed "Proposals for Timber, &c., for the Navy," that they may be distinguished from ordinary basiness letters.

To prevent confusion and facilitate the opening of the bids, parties bidding for supplies at several yards will enclose their bids in separate envelopes for each yard, incread with the name of the yard for which the bid is not and the part of the proposal of the part of the proposal of the part of the forms of proposal, of custrantee, and of certificate of quarantors, with printed forms of offer, will be furnished to such persons as desire to bid on application to the Commandent of the respective Navy Yards, and those of all the yards on application to the Burcau.

The Commandent of each Navy Yard, and the purchasing Paymaster f r cach station, will have a copy of the schedules of the other yards, for examination only, in order that per one who libred to bid may judge whether it is expected to the proposals must be for the whole of a class; but the Department reserves the right to reduce the whole of the chases of those yards.

desirable to make application for any of the classes of those yards.

The proposals must be for the whole of a class; but the Department reserves the right to reduce the whole class, should the interest of the Government require it, be fore the execution of the contract. All applications for information, or for the examination of samples, must be made to Bids or offers will be received only from parties who are bond fide desicrs in, or manufacturers of, the articles they offer to furnish. The guarantors must be certified by the Collector of Internal Revenue for the district in which they reside.

Collector of Internal Accesses reside.

The contract will be awarded to the person who makes
The lowest bid and gives the guarantee required by law,
the Navy Department, however, reserving the right to
reject the lowest bid, or any which it may deem exor-

reject the lowest bid, or any which it may deem exorbiant.

Under the provisions of Section 3,722 of the Revised Statutes, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received.

Sureties in the fail of the responsibility must be certified to the satisfaction of the Navy Department will be weight of the satisfaction of the Navy Department will be withself toom the amount of the bills until the contracts shall have been completed, and cignity per centum of the amount of each bill, approved in triplicate by the Commandants of each bill, approved in triplicate by the Commandants of the station designated in the contract, or, if none is specified, by the Tay master of the station accordance of the station accordance of the contract or, if none is specified, by the pools are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

the goods are delivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

The classes of this Bureau are numbered and designated as follows:

No. 1, White Oak Loza; No. 13, White Pine Plank, Boards; No. 16, White Ash Oars; No. 22, Cypres, Cedar, No. 24, White Oak Staves and Headings; No. 25, Lignamiter No. 25, Staves and Headings; No. 25, Lignamiter No. 26, White Oak Staves and Headings; No. 26, Loza, Iron Cat. Nails; No. 38, Iron Witought Nails; No. 39, Iron Cat. Nails; No. 34, Loza, pp., sheet; No. 43, Z.nc; No. 44, Locks, Horges, Boits, of brass and iron; No. 46, No. 52, Tools for shin stores; No. 56, White Load: No. 57, No. 52, Tools for shin stores; No. 56, White Load: No. 57, Zine Paint; No. 38, Colored Paints, Drycer; No. 58, Logardian of Staves, No. 54, Hardware; No. 56, White Load: No. 57, Zine Paint; No. 58, Colored Paints, Drycer; No. 58, Koseria and Lard Oil; No. 64, Tallow, No. 30, No. 65, Fish Oil; No. 68, Glass i No. 69, Brushes; No. 70, Dry Goods for upholstering; No. 71, Sationer; No. 73, Rosin, Pitch, Crade Turgentine; No. 74, Acid; No. 75, Erosibles; No. 76, Leather; No. 88, Charcoal; No. 76, Wood.

The following are the property of the numbers, required at the resp. clive navy property of the North No. 18, Sp. 39, 42, 48, 48, 59, 54, 58, 68, 68, 69, 70, 71, 73, 73, 77, 88.

Nos. 25, 28, 39, 44, 48, 49, 50, 52, 54, 54, 55, 57, 58, 59, 69, 63, 64, 68, 69, 70, 71, 73, 73, 75, 77, 78, 88.

Nos. 25, 28, 39, 43, 48, 49, 59, 52, 53, 54, 66, 63, 64, 68, 69, 70, 71, 73, 73, 73, 74, 88, 38, 39, 48, 49, 59, 52, 53, 54, 66, 63, 64, 68, 69, 70, 71, 78, 78, 77, 78, 88.

Nos. 22, 29, 48, 49, 59, 51, 25, 54, 54, 56, 57, 58, 59, 69, 63, 64, 68, 67, 67, 67, 67, 77, 78, 88.

73, 75, 77, 78, 88. WASHINGTON
Nos. 22, 39, 48, 49, 59, 51, 52, 53, 54, 56, 57, 58, 59, 60, 52, 64, 68, 69, 70, 71, 72, 73, 74, 75, 77, 75, 88, 82, Nos. 22, 25, 25, 25, 48, 82, Nos. 22, 25, 25, 28, 48, 49, 50, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 60, 70, 71, 73, 77, 78

Nos. 16, 24, 35, 41, 43, 48, 49, 52, 33, 54, 55, 66, 57, 58, 59, 60, 63, 6, 65, 68, 69, 70, 71, 73, 78.

64. 68, 68. 69, 70, 71, 73, 78.

HOSE. U. S. NAYT YAED, WASHINGTON.
COMMANDANT'S OFFICE, Oct. 23, 1876.
For the purpose of a ubmitting for examination and test to a board appointed by the Navy Department with the view of the control of the contro

CAPE FEAR RIVER, N.C.,

U.S. ENGINER OFFICE,

L'NION BLANK BUTLIDING,

ENGINER OFFICE,

L'NION BLANK BUTLIDING,

ENGINER OFFICE,

L'NION BLANK BUTLIDING,

RATIMORE, MD., Oct. 25, 1876.

Proposals for continuing work for the construction of the New inlet, Cape Fear River, N.C., will be received at this office until noon of Nov. 8, 1876, and opened immediately thereafter.

Blank forms, specifications, and any desired information can be had on application at this office.

Major of Engineers

Mulliam P. CRAIGHILL,

Major of Engineers

PO CONTRACTORS. — A party contemplating erecting a building to cost about \$10,000 would like to receive bids for the entire structure, where the parties estimating would be willing to rake good first importages amounting to about \$18,000 as part pay, and the balance in cash. Those willing to five on this basis will place address P. O. Box 348, Boston. METAL FOR FERRY-BOAT. - CITY OF

PROPOSALS.

SEWERAGE. — Sealed proposals will be received by the Board of Trustees of the Columbus Hospital for the Insane, and the Ohlo State Asylum for Idiots, acting conjointly, at No. 58 North High Street, Columbus, O., until Thursday, No. 9, 1876, at 12 o'clock, noon, for farmishing the materials and doing the work upon System of Sewerage, Water-head and supply for Columbus Hospital for the Imsane, and Ohlo State Asylum for Idiots. Bids with the Columbus Hospital for the Insane, and Ohlo State Asylum for Idiots. Bids with the Insane, and State Insane, Insane Institute of Sewerage, Water-head and Supply for Columbus Hospital For Finding and Insane, and Ohlo State Asylum for Idiots. Bids with Institute of the Insane, Insane Institute of the Insane, Insane Insane, Institute of the Insane, Colling of the pipes, back-filling, masonry required for pipes and earth-fills.

3d. For excavating trenches and Javing pipes, including Tender, University of the Insane, Colling of the Insane, Colling Insane, Insane

CONVICT LABOR. — Sealed Proposals will ONVICT LABOR.—Sealed Proposals will be received at the Commissioners' office, Joliet, 111., by the undersigated, up to 2 o'clock, p.m., Nov. 19, 1876, for the labor of four hundred convicts. These men are able-bodied, and adapted to most any and all kinds of labor, and a large portion of them to stome-cutting. Ample shop ro-in and steam power will be farnished. Contracts to run not less than five nor more than clark, years. All proposale itself the proposals is accepted. For farte er pariculars, address the undersigned, or R. W. McClaughry, Warden at the Prison.

JOHN M. SOUTHWORTH,
ROBERT D. NOLEMAN.

ROBERT D. NOLEMAN.

WALLS.—Proposals, in triplicate, with a

Commissioners Illinois State Penitentiary.

WALL.—Proposals, in triplicate, with a copy of this advertisement attached, will be received at the Office of National Cemeteries, Washington, D.C., until Wednesday, Nov. 15, 1876, for the construction of enciclosing walls of brick or ston: around the National Cemeteries at Yorktown, Va., and Beaufort and Fiorence, S.C. Copies of plans and specifications may be seen, and blank forms of proposals procured, at this office, and at the Quartermaster's Offices in New York, City corner of Houston forms of proposals procured, at this office, and at the Quartermaster's Offices in New York, City corner of Houston Louisville, Ky., Baltimore, Md., and at the Cemeteries above named. Proposals should be indorsed, "Proposals for Walls for National Cemeteries," and addressed to the fundersisned. They will be opened at noon on the date specified, when bidders are invited to be present.

A. F. ROCKWELL, Capitain and A. Q. M.

clified, when bidders are invited to be present.

A. F. ROCKWELL, Captain and A. Q. M.

TIES. — Sealed Proposals will be received at the Office of the Penver and San Juan Railroad Construction Company, in Denver, Cot., until the 11th of November next, for farnishing these for sections 9 to 53 inclusive, forty-four miles on the Denver, South Park, & Pacific R. R., 2,800 ties to each mile, distributed, 7 ties to every 15 feet, on the edge of the 'road-bed, ready for track-layers; size of ties, 8 inches face, 8 inches thick, 85 feet long, barked, May be delivered any time after the road-bed, reads have not been successful to the roads of the roads bed, and the roads of the ro

J. W. SMITH, President.

GAS SUPPLY, — Sealed proposals will be received at the office of the City Comparoller, until one o'clock, r.m., Saturday, Dec. 2, 1878, to supply the city of Quincy for a term of twenty-five years, from the 16th day of May, 1878, with a first-rate quality of illuminating gas, both for public and private ensummapping and proceedings to the case of the comparation of

MASS, INSTITUTE OF TECHNOLOGY.

M. This school offers a four-year's scientific and professional training for Chemista. Metallurgists, Civil, Mechancal, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

REMITTER REPORT REPORT OF THE CONTROL OF THE PROPERTY OF TH

sign. Special students in Architecture are received into a two-

Special students in Architecture, years special control.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address William R. WARR, Esq., Professor of Architecture, or Dr. Samuel Kreeland, Secretary, Boston, Feb. I. 1876.

HOSTON, Feb. 1, 1876.

MEDILEVAL FOLIAGE, By J, K, ColLing, I vol. quarto. 76 plates and many woodcuts.

115 69.

These two volumes by Mr. Colling contain valuable infroductory essays on the use of Foliage in Art, with a gr at
number of designs illustrating the various modes in which
Foliage has been employed by Architects and Decorators
in different ages and nations. In their department these
volumes are unrivalled.

Volumes are unrivalled.

LIENARD'S DECORATION AND ORNAMEXTATION. Specimens of the Decoration and Ornamentation of the Nincteenth Century. By LIENARD.
Reproduced by the Heliotype Process. Upwards of 128
designs, rich in hints to Architects and Decorators. 1 vol.
tolio, boards, \$27.00. Half morocco. cloth sides, \$30.00.

JAMES R. OSGOOD & CO., Boston.

	6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50 Chalk P h \$0 001/@ \$0 00
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
LATEST NEW YORK QUOTATIONS.	11 x 18 - 14 x 24 24 50 22 00 21 00 19 50 Paris white, Eng. (gold)per 100
Nov. 3, 1876.	116 v 39 - 90 v 30 29 00 30 00 96 00 - Zine white American in all pure 111/20 10
BRICK. Cargo Afloat.	22 x 30 - 15 x 38 34 00 32 00 28 00 — Lead, white, American, dry 9 @ 9 20 x 34 - 22 x 36 37 00 34 00 30 00 — Lead, white, American, in oil, pure . 101/4@ 10
Ale. P M. \$2 75 @ \$3 00	24 x 36 - 24 x 40 40 00 36 00 32 00 — Lead, red, American
ong Island	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
averstraw Bay 5 00 @ 5 50	30 x 50 - 32 x 52 48 50
Yard prices, 50 c. per M. higher, or, with delivery	34 x 58 - 34 x 60 55 00 50 00 46 00 — Spanish brown, dry
dded, \$2 per M. for Hard, and \$3 per M. for Front brick.	36 x 60 - 40 x 60 60 00
FRONTS.	Sizes above. \$15 per box extra for every five inches, An additional 10 per cent will be charged for all glass prore than 40 inches wide. All sizes above 52 inches in Carmine, American, gold 485 @ 550
roton — Brown	
roton — Park	be charged in the 84 united inches bracket Discount to the trade, 50 and 10 @ 50 and 10 and 5 per Paris green, pure, dry
Total	Cent. Putty, pure
altimore	Sizes. 1st. 2d. 3d. 4th. Duty -20 per cent, ad val. on calcined: hump free
nd \$6 on Baltimore.	11 x 14 - 12 x 13 11 50 10 25 9 75 8 75 Nova Scotia blue
CEMENT.	10 x 16 - 14 x 26 12 50 11 50 10 25 9 00 Calcined, Eastern and city \$\psi\$ bbl. 1 25 @ 1 50 18 x 22 13 25 12 00 10 75 9 50 Calcined city casting
osendale	26 x 26 - 20 x 30 15 75 14 00 12 00 10 25 Calcined city appertine
oman 3 50 (a) 3 75	SLATE. Delivered at New Yor
eene's coarse	100 ~ 90 ON ~41 OF TE ON OF 1E EN FUIDE FURTING BIBLE
FIRE BRICK.	30 x 52 - 30 x 54 27 25 24 00 18 75 Red slate
ed Welsh \$40 00 @	30 x 56 — 34 x 56 29 50 25 22 00 Black slate, Pennsylvania (at Jersey City)
cotch 40 00 @ \$45 00 merican 30 00 @ 40 00	36 x 60 - 40 x 60 37 00 32 50 29 50 — Peach bottom (nominally) 9 00 @ 10 00 Alove \$12 per box extra for every five inches.
DOORS, WINDOWS, AND BLINDS.	Above \$12 per box extra for every five inches. Discount, 70 @ 75 per cent.
The second Property Plants Comme	Alse sold at 60 @ 60 and 5 from French list. SOLDERS.
DOORS, KAISED PANELS, TWO SIDES. 2 x 6.0 1¼ in. \$1 00	Par square foot not each No. 2
5 x 6.8	% Fluted plate \$0 22 1/2 Rough plate \$0 65 TIN PLATES Duty, 1 1-10c, P 15.
Doors, Moulded.	3-16 Fluted plate 30 34 Rough plate 1 00 I. C. charcoal, 10 x 14 34 box (cur.) 88 50 60 88 71 1
Size. 1¼ in. 1½ in. 1¼ in.	34 Rough plate 40 1 Rough plate 1 30 L.X. charcoal, 10 x 14 10 75 @ 11 00 34 Rough plate 50 1 34 Rough plate 1 80 L.C. charcoal, 14 x 20 9 25 @ 9 56
0 x 6.0 \$1.52 3 x 6.6 1 87 \$2 38	FOREIGN WOODS. — Duty free. I. X. charcoal, 14 x 20
6 x 6.8 1 92 2 40	Cuba CEDAR. 1. C. coke, 14 x 20 7 50 @ 9 00 Cuba Cuba Cuba Cuba Cuba Cuba Cuba Cuba
6 x 7.0 2 01 2 68 —	Mexican, small 0 6 @ 0 8 I. C. charcoal, terne, 14 x 20 7 50 @ 7 75
\$\color \chi 6.8 2 00 2 58 3 18 7.0 2 09 2 68 3 34	Mexican, large
10 x 6.10 2 20 2 78 3 54	MAHOGANY.
0 x 7.0 2 30 3 02 3 74 GLAZED WINDOWS.	good & superficial foot 0 25 @ 0 40 THE BOSTON MARKET.
Dimen- 12 Lights. 8 Lights. 4 Lights.	St. Domingo, crotches, fine
sions of Windows, 14pl. 14cc. 14cc. 14cc. 14cc. 14cc. 14cc.	St. Domingo, logs, large 0 15 @ 0 25
1 x 3.6\$1.00 1.08 — — — — —	Cuba, logs, arnall. 0 9 @ 0 15 NAILS. \$\text{\$V\$ Cas}\$ Cuba, logs, large. 0 20 @ 0 30 16d. \$\text{\$\text{\$\text{\$g\$}}\$} Frontern, Mexican, large. 0 12 @ 0 16 16f. \$\text{\$\text{\$\text{\$\text{\$g\$}}\$}
4 x 3.101.15 1.23 1.32 — 1.35 — 1.69 1.81	Frontera, Mexican, large
7 x 4.101 56 1.64 1.77 1.80 — 2.02 2.15	Orlean Mandager
7 x 5.6 1.84 2.02 2.08 2.26 2.31 2.49	Construction
7 x 5.10— 1.94 2.13 2.19 2.38 2.43 2.62 10 x 4 61.59 1.66 1.80 — 2.03 2.17	
10 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53	All dancito, good to fine
10 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82	Bahla, good to fine 0 25/2 0 3/4 SASH IdNS. 0
ce means counted checked, plowed and bored for eights.	Satinwood
ot-Bed Sash, Glazed	Tullpwood
OUTSIDE BLINDS.	Lignumvitæ, large
er lineal foot, up to 2.10 wide	
er lineal foot, up to 3.4 wide	Pine good 45 00@ 53 00 MORTISE LOCKS - Brass face and bolt - ea
Inside Blinds.	Pine, shipping box 18 00@ 22 00
er lineal foot, 4 folds, Plne	Dina common hor 4' 19 8000 18 80 Do for front doors
er lineal foot, 4 folds, Ash or Chestnut — @ 0 95 er lineal foot, 4 folds, Cherry or Butternut— @ 1 10	Factory make, plain front.
er lineal foot, 4 folds, Black Walnut — @ 1 20	Fine, tally plank, 1¼, 2d quality.
WINDOW FRAMES.	Pine, tally boards, dressed, good 31@ 33 DOOR KNOBS. Pine, tally boards, dressed, common. 25@ 27 Solid glass.
p to 3.4 x 7.2, put together	Pine, tally boards, dressed, common. 25@ 27
attle P bushel. \$0 121/4 @ 0 18	rine, strip boards, clear
LIME. 0 15 @ 20	Pine, strip plank, dressed, clear
ate, common, cargo rate	Spruce boards, dressed 22:8 25 25 25 25 25 25 26 27 27 27 27 27 27 27
ate, finishing	Spruce wall strips 14a 16 Plain brass, self-locking 6 50 to 7
ekland, finishing 1 00 @ -	Spruce timber
ound	
GLASS.	Hemlock joist, 3 x 4
Duty Window, Polished Cylinder, and Crown, not	Ash, good
er 10 x 15in., 2 ¹ 4c. P sq. ft.; larger, and not over 16 24in., 4c. P sq. ft.; larger, and not over 24 x 30in., 6c.	Maple
sq. ft.; above that, and not exceeding 24 x 60in., 20c. sq. ft.; all above that, 40 ct. \$\mathbb{P}\$ sq. ft. On Unpolished linder, Crown, and Common Window, not exceeding	Chestnut Doards, Ill
linder, Crown, and Common Window, not exceeding	Curross 1 11/ 9 and 91/1n 25 00/2 40 00
x 15in., sq., 1 1/2c.; over that, and not over 16 x 24, 2c.; or that, and not over 24 x 30, 2 1/2c.; all over that, 3c.	Black Walnut, good
lb.	Black Walnut, selected and seasoned110 00 a 150 00 Black Walnut counters
FRENCH WINDOW. List of March 1, 1876.	Cherry, good
Sizes. 1st. 2d. 3d, 4th.	Black Walnut counters Pft. 186 35 Cherry, good PM ft. 60 902 70 90 Whitewood, chair plank 900 50 90 Firtings of Offices, Whitewood, inch. 36 902 50 90 Firtings of Offices,
x 8 - 7 x 9\$11 00 \$10 50 \$10 00 \$9 50 x 10 - 10 x 15 12 00 11 00 10 50 10 00	Whitewood, %ip
x 14 12 x 16 13 50 12 50 11 50 10 75	Shingles, extra shaved pine, 18 in P M 9 50 2 10 00 LEXINGTON AVENUE, 4187 AND 42D STREETS,
x 18 — 14 x 24 14 00 13 00 12 00 11 25 x 24 — 15 x 32 17 00 16 00 14 00 13 00	Shingles, extra shaved pine, 16h 8 50@ 9 50
x 32 - 20 x 30 18 00 16 50 14 50 13 50	Shingles, clear sawed pine, 18in 6 50 7 7 50 TOSCHI'S ENGRAVINGS. From Fresch
	Shingles, cypress, 24 x 7
x 30 — 15 x 38 19 50 18 00 16 00 — x 34 — 22 x 36 20 50 19 50 17 00 —	
x 30 — 15 x 38 19 50 18 00 16 00 — x 34 — 22 x 36 20 50 19 50 17 00 — x 36 — 24 x 40 23 00 20 50 18 00 —	
x 30 - 15 x 38 19 50 18 00 16 00 x 34 - 22 x 36 29 50 19 50 17 00 x 36 - 24 x 40 23 00 20 50 18 00 x 42 - 28 x 42 25 50 22 50 20 50 x 46 - 30 x 48 26 50 23 50 22 00	Yellow plue girders
x 30 — 15 x 38 19 50	Yellow plue girders

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash For Insane Hospitals, Fire Proof Buildings, &c.

gives perfect security without have a prison-like appearance architees and medical superin rth. Manufactured by

D. M. MEEKER & SON,

Newark, N.J.

Fine Castings of Mall-able and Grav Iron, German Silver, and Composition; also Patterns a specialty.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water, BY USING

Wellington's Patent Wash-Bowl

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to o atrons:—

We hereby pledge ourselves to remove our basins, and epiace them with any other kind now in use, that parties nterested may select, without expense to them, immeditely on the frailure to furif the following conditions, product the trap is kept in running order:—
1st. We warrant our trap to remain free and open as ong or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.
2d. No overflow or leakage of any kind -111 occur.
3d. No sever gas will escape from the drain or pipe, or my offensive smell arise from them.
4th. These bowds will remain free and clear from any

L. S. MOORE & CO.,

40 Oliver Street, Boston.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

INSTITUTE ART

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Classics." \$1.00 each.

ENGLAND-Vol. I. (Aldborough - Furness Abbey. Vol. II. (Glastonbury-Nottingham.) Vol. III (Oakley-Vol. 11. (Glastor Tynemouth.)

nemouth.)

"We can conceive of no series so charming, when cometed, as this, or one which promises to become so popur."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE

THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the popular Little Classfe" HAWTHORNE. With Index of Subjects

in the entire series. \$1.25.

ET Each of the twenty-three volumes contains a new Vignette illustration.

"We cannot sufficiently praise this splendid edition of Hawthorne. The publishers are to be congratulated on their artistic success with it, and it should be in every library."—New Haven Journal and Courier.

ILLUSTRATED LIBRARY HAWTHORNE FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Illustrations. 12mo. \$2.
This volume completes the Illustrated Library Edition
HAWTHORNE'S WORKS, in 12 volumes, 12mo, each cotaining two illustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING, By Dr. John Brown. Illustrated. Flexible cloth, 50 cts. A beautiful Pocket Edition of two of the most charming Stories in the English language. "Rab" and "Pet Mar jorie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll.

Author of "Alice's Adventures in Wonderland," &c., with nine linestrations by Henry Holiday.

1 vol. 32mo. 50 cents.

A cheap edition of a curious and entertaining little book, in which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujubs, Snarks, Boojums, and other grotesque and amusing folks. The readers of "Alice's Adventures" will need no second invitation to read "The Hunting of the Snark."

. For sale by Booksellers. Sent, post-paid, on receipt of ice, by the Publishers. JAMES R. OSGOOD & CO., Boston.

E. P. DUTTON & CO., No. 713 Broadway, New York. al Agenta for J. R. O. & Co's, Publications.



National Fine Art Foundery, 218 East 25th Street, New York

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our art are invited to confer with us

STEAM HEATING. LE BOSQUET'S

STEAM HEATING APPARATUS.



LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston



ASAHEL WHEFLER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING in be shown looking much fresher than any other paint of

two years.

It emits no poisonous gas like other paints while drying.
Its surface is a perfect enamel, from which any specks of dirt may easily be removed. It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

DISCOURSES ON ARCHITECTURE.—
By VIOLET LE-DUC. Translated, with an Introductory Essay. by HERRY VAN BRUKT, Fellow American Institute of Architects. Fully illustrated, I vol. royal 8vo. 88.90.
JAMES R. OSGOOD & CO., BOSTON.

Architects' and Engineers'

STATIONERY.

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE

TRACING CLOTH,

TRACING PAPER.

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper, Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND.

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.



PARQUET FLOORS.

The National Wood Manufing Co.

WOOD CARPETING.

950 Broadway, New York. ad Three-Cent Stamp for Desi Brushes for Waxing Floors.

(ESTABLISHED 1844.1



PARLOR GRATES

For Health and Com Made low or half low o with the celebrated d ing attachment. Ca th the ceret attachment.
ed for hard or so
wood. The fines
ent in New Engla

H. M. CREAMER. 86 North Street, Boston

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

E. Hixon, iun

UPS AND DOWNS ON LAND AND WATER Oblong folio. \$10.00

"Turning over these pages is like gathering around a fire-side to listen to the bright and cutertaining stores of a friend who has travelled and kept his eyes well open. Only Mr. Hop sin's pencil is more is quent and witty than most men's tongues." — Boston Journal.

JAMES R. OSGOOD & CO., BOSTON.

A RT FOLIAGE, By J. K. COLLING, 1 vol. quarto. 72 plates. \$15.00.

** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.



J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

orkers in Wood, Metal and Stone for Church purpose lusively Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

Wood Work | Metal & Stons Work | Banners & Decoration 10 cts. | 10 cts.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com

FINE BRONZE HARDWARE

of the latest natterns

nze and Brass Hardware manufactured to order from chitects' drawings

20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET



ROETH & MAY.

FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books applied at publishers' prices, A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS.

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

Duer a Song, 24 South Charles et, Warfield a Bohr, 62 St. Sharp et Cleveland, 63.—George Worthington a Co., 30 Water et; Wn. Bingham & Co., 149 Water et; Clinclinandt, —Glaescher à Kuhlman, 524 Main et, Clinclinandt, —Glaescher à Kuhlman, 524 Main et, I. L. Nayne & Son, 124 Main et, Co., 16 Fifth aver J. Liebensein & Co., 22 Handolph et, Louis, —Geo. J. L. Wayne & Co., 108 Woodheidige street, St. Louis, —Geo. A. Kubelmann & Co., 87 N. 60h et. St. Louis, —Geo. A. Kubelmann & Co., 87 N. 60h et. St. Louis, —Geo. A. Kubelmann & Co., 87 N. 60h et. St. Louis, —Geo. A. Kubelmann & Co., 87 N. 60h et. St. Louis, —Geo. A. Kubelmann & Co., 85 N. 50h et. Montreut. —James Walker & Co., 165 N. James et. Montreut. —James Walker & Co., 165 N. James et. Hamilton, Ont. —Waton & Thompson, 16 McNab et. Bar Our goods can be nurchased of the above Access et al.

Our goods can be purchased of the above Agents at the srices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

E. A. HUNTING, AND OVERS, AND BOSTON.

P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. SO, 11 BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAMES R. OSGOOD & CO., WINTHROP SQUARE Boston.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

RATES OF	AI	VE	R7	ris	12	FG				
On the first page, and pag	res	ne	33	to	ed	ito	ria	n	natte	r. 12
cents per line (agate), or \$1	75	per	in	ch	(6	JUI	ter	211	lines	on (a
insertion.										
One inch, one month								. 9	\$7.00	
One inch, three month	8							. 1	201,00	
One inch, nine months										
One inch, one year .										
On other pages, 10 cents ;	per	lin	B 6	anc!	h !	ins	eri	lion	n, or	\$1.4
per inch.										-
One inch, one month								. 1	\$5.60	
One inch, three months	8 .								6.00	
One inch, nine months										
One inch, one year										
No extra charge for cuts, or	r fo	rad	re	rtie	er	nei	ato	th	at oc	e up

Publishers' Department.

Classified Advertisements.

The following is an alphabetical list of the advertise ments which appear in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architect nish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The American Architect affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once ampreciate the excellence and contisers will at once appreciate the excellence and convenience of the arrangement.

ARCHITECTS' AND ENGINEERS' STATIONERY, &c.
Wadsworth Bros. & Howland, Boston
ARCHITECTURAL BOOKS.
A. J. Bicknell & Co., New York

ARCHITECTURAL	IRON	WOR	к	
Bartlett, Robl	dins, &	Co.,	Baltimor	e, Md
ARCHITECTURAL	SCHOOL)L.		
Mass. Institut				n

	W. B.	Gleason	& Co.,	Boston	
BE	ICKS.				
	Sayer	& Fisher	, Newa	rk, N.J	

Additional 1 the 2811 Foundary, 210 H 1012
BUILDERS AND REAL ESTATE IMPROVERS.
Tolman & Hunting, Boston
BUILDERS' HARDWARE.
The State of White and Decision

BUILDERS IN IRON.	
George Dwight, Jr. &	Co., Springfield
BUILDING STONE.	
Charles P. Williams, ?	New York

Cape Ann Granite Company, Boston	0.0
CABINET FURNITURE AND UPHOLSTERY.	
Edward Hixon & Co., Boston	0.00
Corner ton Harr Onester	

CHURCH FURNITURE.	
J. & R. Lamb, New York Braman, Shaw, & Co., Boston	vii
CHURCH ORGANS.	
E. & G. G. Hook & Hastings, Boston	iv
CONTRACTORS AND BUILDERS.	
W H Warren Roston	4-555

New England Organ Co., Boston.....

W. H. Warren, Bost	on
	. Boston
C. H. Hall, Boston	
DESIGNING AND WOOD	ENGRAVING.
W. J. Dana, Boston	*****************
DRAIN PIPE.	

N. E. Drain Pipe Co. Boston
ELECTRIC BELLS, ANNUNCIATORS, &c.
S. W. Fuller, Boston

Tufts'	Elevator V	Works,	Bosto	n.
ELEVATOR	S, STEAM	ENGE	NES, &	08.
Whitel	or Machin	a Ca	Rostos	

N. E. Felt Roofing Co., Boston	i
FIRE-BRICK AND CHIMNEY-TOPS.	
Waldo Brothers, Boston	ŝ٧

FIRE-PROOF	B	UILDINGS.			
Fire-Proo	F	Building Co	New	Vork	

DECT BOOK I	DULL DINGS.			Officianted	,
Fire-Proof	Building Co.,	New York	 1	sent free	

	AND DECORATION.
	May, Boston
FURNITURE,	WOOD MANTLES, &c.

Committee and the committee of the commi
FRESCO PAINTERS.
W. J. McPherson, Boston
Philip A. Butler, Boston
Wallburg & Sherry, Boston
L. Haberstroh, Boston
William S. Brazer, Boston
GAS FIXTURES.
R Hollings & Co. Roston

R. Hollings & Co., Boston	
Mitchell, Vance, & Co., New York	
S. A. Stetson & Co., Boston	
Archer & Pancoast Manuf. Co., New York	
M. W. Peirce & Co., Boston	

	mi iii saree a conj accessiriti iii iii iii iii	
	GAS MACHINES.	
	Andrew G. Paul, Boston	٦
-	INTERIOR WOOD-WORK, DECORATIONS, &c. Pottier & Stymus Manufacturing Co., New York.	

Pottier & Sty	mus Manufacturing Co., New York.
IRON BRIDGES. King Iron Br	idge and Manu'f, Co., Cleveland, O
IRON CORNICES.	
Smith & Van	Noorden, Boston

John H. Reed	& Co., Boston
IRON WORK FOR	BUILDINGS.
J. B. & J. M. (Cornell, New York

IRON MERCHANTS.

LINEN HOSE.	
New England Linen Hose Manuf'g Co., Boston. i	
LOCKS AND ORNAMENTAL BRONZE HARDWARE	
Yale Lock Manuf'g Co., Stamford, Conn viii	

Yale Lock Manuf'g Co., Stamford, Conn
MARBLE FLOORING TILES.
George Barney, Swanton, Vt
ORNAMENTAL AND CUT GLASS.

O. CON DISSOL, TACA	T OTWOOD				 ł
ORNAMENTAL BRONZ	E8.				
Mitchell, Vance & Archer & Pancoas					
Althor & Thireons		B. Co.,	740#	1 00 8	 4

Archer & Pancoast Manuf g. Co., New York	i
ORNAMENTAL IRON WORKS.	
Bubier & Co., Bostonv	iii

PAINT. Asahel Wheeler,	Boston	iv
PAPER HANGINGS.		

	- 1
H. B. Jones & Co., Boston	ii
PARLOR GRATES.	
H. M. Creamer, Boston	v
PARLOR GRATES, BRASS FENDERS AND IRONS, &c.	
Murdock Parlor Grate Co., Boston	iv

i	Murdock Parlor Grate	Co.,	Boston.		 	
	Plumbers' Materials.					
	Hawthorne & Tucker,	Bost	on	* * *	 	

ì	PLUMBERS' SUPPLIES.
	Jennings' Sanitary Depot, New York
	ROOFING PLATES AND METALS.
	Puller Dane & Fitz Roston

.....viii

SHUTTERS (ROLLING	Wool	D).
Wilson & James,	New	York
SHUTTERS (STEEL).		
Clark & Co., New	York	

Wilson & James, New York	VIII
SIGN AND ORNAMENTAL PAINTERS.	
Warner Bailey, Boston	ii
SKYLIGHTS.	
The Hayes Patent, New York	viii

Smith & Van Noorden, Boston		1
SLATE MANTELS, &c.		
J. W. Grigg, Boston	Y	íi
SLATE PAINT.		
New York Slate Paint Co., New York	Y	di

	Am. Spring Butt Co., New York	iv
١	STAINED GLASS.	
	Falck & Schwabe, Boston	iv

	has, Booth, Orange, N.J
STEA	M HEATING APPARATUS.
L	e Bosquet Bros., Boston
STEA	M PUMPS.

Geo. F. Blake Manufacturing Co., Boston
STONE DRESSING WORKS.
George Brown, Newark, N.J.

George	Brown,	Newark,	N.J	 	 	 	 	. ii
TILES.								
T. Aspi	nwall, N	ew York		 	 		 	. i
C. A. W	ellingto	n, Boston		 			 	viii
VENEERS.								

Palmer, Parker,	& Co., Boston viii
	Boston ii

WELLINGTON'S PATENT WASH-BOWL	
L. S. Moore & Co , Boston	iv
WOOD CARPETING, &c.	

*************	i	WOOD CARPETING, &c. The National Wood Manuf'g Co., New York v
	1	The advertising columns of the AMERICAN ABCHITECT AND BUILDING NEWS are used as a DIRECTORY
	i	by the architects and builders of the country. Our patrons receive numerous orders from the cards which
	iv	they insert, and from parties whom they would not

The Yale Lock Manufacturing Company.

We have received from the Yale Lock Manufacturing Company of Stamford, Conn., an elaborate catalogue and price-list of the goods manufactured by them.
The mechanical appearance of the work is exceptionally fine, the various illustrations being executed in a very artistic manner, giving customers an admirable idea of their actual appearance. The reputation of the manufactures of this company is world-wide, their locks having achieved the highest reputation for effi-ciency and durability, both in this country and Eucency and durability, both in this country and Eu-rope. A very interesting part of the catalogue is that devoted to the illustration of the real bronze hardware made by the company. These comprise door-knots, bell-pulls, combined e cutcheons for locks, parlor bell levers, lever handles, fast joint butts, loose joint butts, door-handles, letter-hole plates, bolts of various kinds, and numerous other goods of a similar character used and numerous other goods of a similar character used in public and private edifices. As the space devoted to the illustration and description of these goods comprises 225 royal octavo pages, the reader will understand something of the extent of the business of this enterprising corporation. The fame of the "Yale Time Lock," and of the Bank and Safe Locks of the Yale Company, is well known. Builders and others are interested to know that they are sole manufacturers of Weston's Safety Hoisting Machinery, and of other articles, for which attention must be directed to their comprehensive catalogue.

Architects' and Engineers' Stationery,

The attention of our readers is directed to the an-nouncement of Messrs, Wadsworth Brothers & Howland, on page v. They have a fresh and varied stock of stationery which architects and engineers would do well to examine.

Centennial Awards.

Persons engaged in the manufacture of materials used in the construction of buildings, who have been awarded premiums in the Centennial Exhibition, would do well to inform architects and builders of the fact through the columns of the AMERICAN ABCHITECT AND BUILDING News. A little money spent in judicious advertising generally proves a profitable investment; and the close of the exhibition gives the successful competitors a rare opportunity which they should not fail to improve.

"ZODTCHY" (BUILDER),

A JOURNAL OF ARCHITECTURE, FINE ARTS, AND ENGINEERING,

Published, since 1872, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

Each number contains from RIGHT to SIXTEEN pages of etterpress, gr. quarto, with cuts, and at least FIV a autographic chromo-lithographic plates, the titles in both Russian

PROSPECTUS.

The "Zodtcht" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Con-truction of different Build ings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &c., the Biography of Russian and Distinguished Foreign Architectis, the Discussion of Building Laws, Critical Analysis of Architectural and Artistic Publications. The "Zodtcht" publishes a Werelt Supplement Called "Leaves of the Zodtchy," which contains the current Building News, Public Competitions, Exhibitions, Proceedings of Architectural Soc. cites, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisements, &c.

SUBSCRIPTION PRICE FOR EUROPE AND THE UNITED STATES, \$12.50 Pair ANNUM.

Price for Advertisements: One Line, each insertion, 8 cts.
For important Advertisements, a Discount of ten to thirty
per cent.

For important Autorities and I for cent.

The "Zodychy" exchanges with all Architectural and Technical Journals.

Address, JOURNAL "ZODTCHY,"

18 OFFICER STREET, St. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

TO ARCHITECTS AND BUILDERS. Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorations, and announcements of interest to Architects, Builders, Decorations, and announcements of interest to Architects, Builders, Decorations, and Architects, Builders, Decorations, and Architects, and Architects, Builders, Decorations, and Architects, and Architects, Builders, Decorations, and Architects, and

they insert, and from parties whom they would not otherwise reach. Specimen copies of the paper are sent free.

ors, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by

Patent Slate Paint,

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by pullication of this state, be made to last from twenty to executy-five years. Old roofs can be patched and coated ching mut hetter, and lasting longer than new shingles tithest the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the co-simply laying them. The paint is FIRE-PROOF again arks or flying embers, as may be easily tested by any on

IT STOPS EVERY LEAK,

for fin or Iron has no equal, as it expands by heat, con-is by cold, and NEVER CRACKS not scales. Roofs cov-with Tar Sheathing Felt can be made water-tight at a d expense, and preserved for many years. is Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on tin, iron, felt, matched boards, or any smootl surface, from two quarts to one gallon are required to !@ square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition,

therefore it neither cracks in winter, nor runs in summer. One ceayed shingies it fills up the holes and pores, and give a new, substantial roof that will last for years. Cuerks or warers shincles it brings to their places, and keeps them there. It fills up all holes in f. it roofs, stops the leaks, and, although a slow dryer, rain does not affect it a few hours after applying. As nearly all paints that are black c ntsin tark, be are you obtain our GENTINE article, which (for shingle roofs) is

CHOCOLATE COLOR.

ten first applied, changing in about a month to a uniform the color, an.. is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the on'y reliable Slate Paint ever introduced, that will effectually prevent dampness from penetrating and discoloring t eph ister.

These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.

Our only colors are Chocolate, RED, BRIGHT RED, and ORANGE.

NEW YORK CASH PRICE-LIST.

18	gallons,	keg				 	 							-
05	0.0	half ba	erel	 	 	 	 	• •		 			٠	1
101	6.9	one bar												

We have in stock, of our own manuac rials, &c., at the following low prices: ---1000 rolls extra Rubber Roofing, at 3 cents per square foot. Or we will furnish Rubber Roofing, Nails, Caps, and Slate Jaint, for an enture new roof, at 45, cents per equare foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1% cents per square

foot. 3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

foot to be split faired Rooms ret, at 25 cents per square foot.
200 rolls Tarred Sheathing, at ¼ cent per square foot.
200 harrels Slate Footr, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$4.00.
500 gallons fine Enamel Paint, nixed ready for use, on in-like or outside work, at \$2.00 per gallon. Send for sample card of colors.

All orders must be accompanied with the money or satis-actory city references. No goods shipped C. O. D., unless xeress charges are guaranteed. Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK

THE PICTURESQUE ARCHITECTURE OF SWITZERLAND. Containing designs of Country Houses in several Swiss Cantons. Drawn and engraved by A and E Vol. 19 yet he Helbotype Frocess. 19 vol. quarto-Boards. \$12.00.

This attractive volume abounds in suggestions to American architects for making country houses picturesque as well as convenient.

JAMES R. OSGOOD & CO., Bostos.

JAMES R. OSGOOD & CO., BOSTON

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. Engage. David, member of the Institute of France.

This volume contains twenty-four Plates, reproduced in Jac-snuize and with admirable success by the Heliotype Production. The subjects represented are "Tab Visitation," The State of the Control of the Con

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Illustrated. 1 vol. square 12mo
JAMES R. OSGOOD & CU., BOSTOB.

CHURCH AND LODGE



FURNITURE

ORIGINAL DESIGNS

BRAMAN, SHAW, & CO.,

PARLOR FURNITURE. Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston. FACTORY: EAST CAMBRIDGE.

Centennial Guides.

GET THE BEST!

265,000 COPIES ALREADY SOLD

The Visitor's Guide

of valuable and interesting information. Hiustrated. 12mo Paper cover, 25 cents. Fine edition, extra cloth, 30 cents Also, in the French, German, and Spanish languages Cloth, 30 cents each.

PHILADELPHIA

And its Environs.

A complete Guide to the city and its surroundings, including Fairmount Park and the Exhibition Grounds. Mevise and enlarged. With Map and 170 Hiustrations. Royal 8v. Paper cover, 50 cents.

"LEGIBLE, PORTABLE, HANDSOME, AND CHEAP."

STRANGER'S ILLUSTRATED

POCKET GUIDE TO PHILADELPHIA,

Description of the Principal Objects of Interest in and around the City, with Directions how to reach them.

PROFUSELY ILLUSTRATED.

16mo. With Map. Paper Cover, 25 Cents. Extra Cloth, 50 Cents.

JUST ISSUED.

TRAVELLERS' GUIDES.

LIPPINCOTT'S GENERAL GUIDE-BOOK TO THE UNITED STATES AND CANADA. Giving full information on those subjects interesting to travellers, with an appendix describing the Philadelphia Exhibition of 186. Illustrated. 18mo. Extra Cloth, \$1.50.

tion of 1876. Hiustrated, 18mo. Extra Cloth, \$1.00.

LIPPINCOTT'S GUIDE TO AMERICAN
SEMMER RESORTS, New Edition. Illustrated. 16mo.

Extra Cloth, \$1.00.

LIPPINCOTT'S GENERAL GUIDE FOR
SETLERS IN THE UNITED STATES. Giving a description of the resources of various States, and such information as is useful to settlers. 16mo. Extra Cloth, \$1.50.

LIPPINCOTT'S GUIDE TO NEW YORK CITY, HUDSON RIVER, &C. Illustrated, 16mo. Extra Cloth, 50 cents.

, For sale by all Booksellers and Periodical Dealers, or will be sent by mail on receipt of the price by

J. B. LIPPINCOTT & CO., Publishers,

715 and 717 Market Street, Philadelphia.

A NNALS OF A FORTRESS. Translated by BENJAMIN BUCKNALL, Architect 1 volume 8vo. A by BRNJAMIN BUCKNALL, Architect, I volume of the Eighty-five illustrations several in colors, \$5.00.

JAMES B. OSGOOD & CO., BOSTON.

The American Architect and Building News.

THE PAPER FOR ARCHITECTS, BUILDERS, AND ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS.

EVERY SATURDAY.

BY JAMES R. OSGOOD & COMPANY,

WINTHROP SQUARE, BOSTON,

BEING devoted to the Architectural and Building inter-sts of all sections of the country, it offers special induce-

AS AN ADVERTISING MEDIUM,

to Manufacturers and Dealers in Builders' Materials, as well as to Decorators and those engaged in the various branches of Interior Decoration, &c.

Each number contains editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, ncluding the whole subject of interior decoration; notices including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative ex-pedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archieology and other departments of the history of art.

A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

of various Architectural Designs, accompanying each number, which are contributed by architects in different parts of the United States.

Another valuable feature is now added in the publication of the

PRICES OF BUILDING-MATERIALS,

the list being made up just before going to press each week.

The publishers respectfully request the co-operation of those professional and business men, to whose interests it is devoted, to add to the popularity and value of the "ABCH-TECT," by contributing to its columns whatever may be deemed of interest to its readers.

The American Architect and Building News

Is for sale by all respectable newsdealers, and is mailed, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING,

Winthrop Square, Boston.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES.

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than

SLATE URINALS. BLACKBOARDS FOR SCHOOLS, &c.

Parlor Grates, Frames, and Registers

JOSEPH W. GRIGG, No. 59 Bromfield Street, Boston.

Springfield Gas Machine.

ANDREW G. PAUL, 119 Court Street, Boston.

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

shutters, unlike all others, are of steel. They are the best are shutters in the market.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof,

Are also offered at reduced rates

PRICE LIST.

68 Beekman Street, New

State rights for patent Shutters for sale. Agents wanted.

YALE LOCKS, "STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY, HENRY R. TOWNE, President.

Principal Office and Works Stamford, Conn. Salesroom No. 53 Chambers St., New York.

ILLUSTRATED CATALOGUES furnished free to Architects on application.

ESTABLISHED 1833.

Palmer, Parker, & Co.

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. WHITE HOLLY, MAHOGANY, THUYA, ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

PLUMBERS'

JENNINGS: PATENT SIX. JOHNINGS' PATENT WATER CLOSETS, ENGINEER PATENT, PERSON URINAL PROPERTY OF THE PROPERTY OF THE PERSON URINAL PROPERTY OF THE PERSON URINA PROPERTY OF THE PERSON URINA PROPERTY OF THE PERSON URIN Patent Slop and Klichen Sinks, The-Up Wash-Besins, Street Urhals, Private Urinals, atent Latrines, and other specialties (the peculiardy of all or which is the thorough exhapsion of sweer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings. Contractor for Tile Work in Dwellings and

Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

We Manufacture of Fine Furniture, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston.

THE NATIONAL ODE

Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

The historic occasion on which this Ode was recited, the majestic and classical character of the Ode, and the rare attractiveness of Mr. Taylor's permanship which is reproduced with absolute accuracy, give peculiar value to this volume as a suvenir of a memor-. For sale by all Booksellers. Sent, post-paid, on receipt of price by the publishers.

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works

For Building IRON AND WIRE RAILING.

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY,

WEATHER VANES.

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of

Send Stamp for Catalogue. BUBIER & COMPANY,

118 MILK STREET, BOSTON.

DEALERS in Architects' and Builders' Supplies should advertise in the AMERICAN ARCHITECT

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, (17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 23 FEDERAL ST.,
BIOSTON.

IRON CRESTINGS, CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HABRISON AVENUE, BO

Nos. 488 & 499 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord. N. H. Offices, 19 Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverhill St., Boston, Fosts, Italis, Balusters, & Office Rails, furnished to order.

EXAMPLES OF MODERN ARCHITECTURE. From designs by Scott, Street, Colling, and others. I vol. quarto. 61 plates. \$15.00.
Containing designs for Churches, Cathedrals, Colleges, Ilalis, Rallway Stations, Museums, Model Dwellings, Baths, &c.

JAMES B. OSGOOD & CO., BOSTON.

MABEL, MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 16mmo. \$1.50

CHILD-LIFE IN PICTURES. Containing twenty-four Hellotype Plates, from Corregoto, Corlet, Reynolds, Gerlee, Lawrence, Murillo, Geraed, Rapiale, and other celebrated painters, -forming a series of charming pictures of children and childler, Quarto, Price, \$10.06. James R. OsgOOD & CO., Boston.



Franklin Press . Rand, Avery, & Co., Boston.





A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 46.]

SATURDAY, NOVEMBER 11, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | New York. | Philadelphia.

LAWRENCE, WILDE, & CO., MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS, NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and on-pered work a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and abl: to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Pipes should have it.
—Send for Circul ris.—
ROBERT GEMS, Treas.—S desraom, 339 Washington St.,
BOS FON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,
QUARTYMAN, and Wholesale Dealer in
BUILDING STONE.
OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUAFRIES.
Sole Agent for
BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAM MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS.

SPEAKING TUBES.

AND BURGLAR ALARMS. For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER.

63 Devonshire Street, Boston

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)
PRESSED FRONT BRICK.
MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.
Workeat Saverille on Beright Bluger, N. J.

Works at Saverville, on Raritan River, N.J., Office, NEWARK, N.J.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

No. 10 JACKSON STREET, ORANGE, N.J.

P. O. Box 621.

FOR SALE. — Complete set of "The Architect," London. Vols. 1 to 15, inclusive, in half morocco.
No. 2, Philadelphia.

No. 2, Philadelphia.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hallow Blocks of any pattern, uniting strength, and resistance to firs and water. The Hydraulic Lime of Teil (France), one of the strongest cements knawn, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent I as

prick. -proof partitions, floor arches between iron beams, as under wooden or iron beams, in the following

cellings under wooden or iron beams, in the holidings:

Western Union Telegraph,
Del, and Hudson Canal Co.,
Equitable Life Assurance,
Wil'mab's lis Aswings Bank,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Baltimore Saf's Depocit,
Insurance on Wooden Manaards r duced ninety cents per
Si00. Sidewalks laid at Lenox Library, Tribune, each oddy duseum.

Sione approved by the New York Board of Fire Underwriters,
and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS.

STEAM ENGINES, BOILERS, AND MACHINERY,

No. 1176 Tremont Street, Boston Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.
CHARLES WHITTIER, Pres. JAMES STUBGIS, Treas.

MINTON'S TILES. Established 1794.

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES, T. ASPINWALL, Sole Agent, 38 Murray Street, New York.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,

ORNAMENTAL IRON WORK, GALVANIZED IRON WORK

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.

Works, cor. Pratt and Scott Sis.,
BALTIMORE, MD.

NEW YORK OFFICE, 68 Beekman Street. Office 24 Light St.,

JOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in omogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig. and Railroad Iron, Wrought Iron Girder, Channel, and Deck Beams, Augle and T Iron, Boiler and Tank Rivets, Lap-Welded Iron Boiler Tubes,

Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR, TO BE OPERATED RITHER BY STEAM OR WATER. The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 243 Broadway, New York.
OTIS TUFFS. L. A. BIGELOW,
President. Treas'r and Gen'l Manager.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O. MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

A MANUFACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE. 67 Green St.; 68, 70, & 72 Wooster St., above Broome,

NEW YORK.

Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERT DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WAREBOOMS, No. 597 BROADWAY, NEV

GAS FIXTURES OF EVERY DESCRIPTION SPECIAL RATES TO BUILDERS. B. HOLLINGS & CO., 517 Washington St., BO TON.

GALVANIZED IRON CORNICES, Campbell's Patent Chimpey Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS. GILT, BRONZE, AND SS CHANDELLERS. Gas Pipe, and Fitting in all in-ches. Architects, Contractors, and Builders furnished

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHAN'IS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.

Exclusive Boston Agents for the sale of The Union

MILLS Solid WROUGHT IRON ILEAMS, and The
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-TV NY, 24 HAWLEY STREET, BOSTOK, GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ, NOYES, Agent.

CAPE ANN GRANITE COMPANY

GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BOSTON.
Quarries: Bay Yiew, Gloucester, Mass.
Jonas H. French, Fres.
Scott Webber, Supt.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND Flat Roofs. Only Manufacturers, NEW ENGLA ELT ROOFING COMPANY, 17 Central Street, Boston

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 118 COURT STREET,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

G EO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STRAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTOK.

PLUMBERS' MATERIALS to Builders at Wholesaie Prices HAWTHORNE & TUCKER, 16

BUILDERS' SUPPLIES.

MONS. C. J. SOYARD, formerly 12 West STREET, designer and maker of FURNITURE, WOOL ELS, AND ALL FIRST-CLASS CABINET WORKS VERY DESCRIPTION. 2 "A" BEACON STREET REMONT, BOSTON.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS. 264 TO 270 PASSAIC STREET, NEWARE, N.J. timates made, and cut stone work of every desceptly and accuracely furnished.

J. CARTISSER, (ESTABLISHED 1858), ORNAMENTAL, EMBORSED, AND CIT GLASS, FOR HOUSES, STEAMBOATS, RAILFOAD CARS, OFFICES, &C., No. 286 West 14th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and a apted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

FOR MARBLE FLOORING TILES.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church.
BOSTON.

WARNER BAILEY, Sign and Ornamental

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

liave for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of springfield last year.

FIRE-PROOF LATH. In the wordsof one of the best-known architects of this country, "Minimum of metal, maximum of atfiliness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. HOYT will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

SCHOOLHOUSE. — By order of Board of Education of New Bremen School District, Augilaize County, Ohio, sealed proposals will be received by said agard organized the town of New Bremen and specification now on file in the town of New Bremen and specification now on file in the persons interested in said bild, and be accompanied with a guaranty, in the sum of five hundred dollars, of some repsonsible disinterested person, that if the bild is accepted, so the persons interested in said bild, and be accompanied with a guaranty, in the sum of five hundred dollars, of some repsonsible disinterested person, that if the bild is accepted, so the persons interested in the signed by the parties, sealed up, and darressed to the Board of Education of New Bremen School District, New Bremen, Augilaze County, O., "Proposals for building Schoolhouse." The Board reserves the right to reject any or all bilds. By order of the Board of New Bremen School District.

F. H. L. NIETER, Clerk.

New Bremen, O., Oct. 23, 1876.

WASHINGTON.

Nos. 22, 23, 54, 55, 57, 58, 59, 60, 63, 64, 68, 68, 70, 51, 73, 75, 80, 89, 60, 63, 64, 68, 89, 70, 11, 73, 77, 78, 88, 89. 60, 63, 64, 68, 89, 70, 11, 73, 77, 78, 88, 89. 60, 63, 64, 68, 69, 70, 11, 73, 77, 78, 89. 89. 60, 63, 64, 68, 70, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 70, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 79, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 69, 70, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 69, 70, 71, 73, 77, 78, 89. 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 68, 69, 70, 71, 73, 78, 89. 60, 63, 64, 69, 70, 71, 73, SCHOOLHOUSE. - By order of Board of New Bremen, O., Oct. 23, 1876.

PROPOSALS.

LIFE-BOAT STATION HOUSE.—Proposals will be received at the Treasury Department, Washington, D.C., until 12 M., of Wednesday, the fifteenth day of November, 1876, for the construction of life-hoat station houses at the following named points on the Pacific Coast, 15 wit: One at Neah Bay, and one at Shealwater Bay, Washington Territory: one at Cape Arago (Coos Bay), Oregon; and one at Humboldt Bay California. Bid will be received for one, several, or all of the above-mentioned houses; and bidders must state the number they will build, and designate the localities. Each bid must be accompanied houses; and bidders must state the number they will build, and designate the localities. Each bid must be accompanied house, and the sum of one thousand dollars, with two good and sunfelor sureties, conditioned that the bidder and construction of life-hoat station honses." and the sum of the man designate the localities of the Secretary of the Treasury, Washington, D.C. Specifications and place, and forms of proposals and bond, can be obtained at the office of the Collectra of Customs at San Francisco, Astoria, Portland, Empire City, and Port Townsend; also upon application to this bepartment. The right to reject any or all bids, or to waive defects, if it is deemed for the interests of the Government to do so, is the construction of the Collectra of Customs at San Francisco, Astoria, Portland, Empire City, and Port Townsend; also upon application to this bepartment. The right to reject any or all bids, or to waive defects, if it is deemed for the interests of the Government to do so, is the construction of the Collectra of Customs at San Francisco, Astoria, Portland, Empire City, and Port Townsend; also upon application to this Department. The right to reject any or all bids, or to waive defects, if it is deemed for the interests of the Government to do so, is the construction of the Collectra of the Collectra of Customs at San Francisco, Astoria, Portland, Empire City, and Port Townsend; also upon application to this Depar

ceside.

The contract will be awarded to the person who makes
he lowest bid and gives the guarantee required by law,
he Navy Department, however, reserving the right tyeject the lowest bid, or any which it may deem exortions.

the Navy Department, however, reserving the right to reject the lewest bid, or any which it may deem exorbitant.

Under the provisions of Section 3,722 of the Revised Statutes, the offer of any person who, as principal or surety, has been a defaulter in any previous contract with the Navy Department will not be received.

Sureties in the full amount will be required to sign the contract, and their responsibility must be certified to the satisfaction of the Navy Department enturn will be withheld fr.m. he amount of the bills until the contracts shall have been ea pleted, and cigity per centum of the amount of each bill, approved in triplicate by the Commandants of the respective vard-, will be paid by the Paymaster of the station designated in the contract or, if more is specified, by Lie Paymaster of the station nearest the yard where the goods are dilivered, within ten days after the warrant for the same shall have been passed by the Secretary of the Treasury.

13, 15, 17, 18, 88.

WASHINGTON.

N=8-22, 39, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 72, 73, 74, 75, 77, 78, 88, 88.

NOR. 22, 25, 35, 39, 48, 49, 50, 52, 54, 54, 56, 57, 58, 59, 60, 63, 64, 68, 69, 70, 71, 73, 77, 78.

PROPOSALS.

PROPOSALS FOR MATERIALS

SUPPLIED TO THE NAYY YARDS UNDER TO SOGNEANCE OF THE BEREAU OF CONSTRUCTION AND REPAIR.

BURBAU OF CONSTRUCTION AND REPAIR.

Sealed proposals to furnish timber and other materials to the Navy for the fiscal year ending June 30, 1877, will be received at this Bureau until twelve o'clock, M., of Thursday, Nov. 16, 1876, at which time the bids will be one, e.d.

Burcan of Construction and Repair, Navy Department, Washington," and must be endosed "Proposals for Timb br. &c., for the Navy," that they may be distinguished from ordinary business letters.

To prevent confusion and face at several yards will endorsed with the name of the yard for which the bid is made.

To prevent confusion and face at several yards will endorsed with the name of the yard for which the bid is made.

Printed schedules for such classes as parties deal in and intend to bid for, together with in truction for bidders, giving the printed forms of offer, will be furnished to such persons as deare to bid on application to the Commandants of the respective Navy Yards, and those of all the yards on application to the Bur and the yards on application to the Bur and the yards on application to the Commandant of each Navy Yards, and those of all the yards on application to the Commandant of each Navy Yards, and those of all the yards on application to the Commandant of each Navy Yards, and those of all the yards on application to the Bur and the yards of the whole of a class; but the whole of a class; but the wards of the other yards, for examination only, in order ones who intend to bid may judge whether it is the produced of the other yards, for examination only, in order ones who intend to bid may judge whether it is the produced of the other yards, for examination only, in order of the City Council.

First HAARICK, Comptroller of City of Quincy, By Manuer Culing Council and the produced of the other pro

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.
LEXINGTON AVENUE, 41st AND 42D STREETS,
NEW YORK.

NORTH AMERICAN REVIEW,

ART. 1. THE SOUTHERN QUESTION. WILLIAM HENRY TRESCOT.

II. THE WHISKEY RING. H. V. BOYNTON.

III. VON HOLST'S HISTORY OF THE UNITED STATES. HENRY ADAMS and H. C. LODGE.

IV. AN EPISODE IN MUNICIPAL GOVERN-MENT. The Shattering of the Tweed "Ring."

C. F. WINGATE.

V. THE "INDEPENDENTS" IN THE CANVASS.

\$1 50 a Number; Yearly Subscription, \$6 00.

Sold by Booksellers and Newsdealers. Sent, post-aid, on receipt of price by the publishers.

JAMES R. OSGOOD & Co., BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemista. Metallurgists, Civil, Mechacal, and Mining Engineers, Architects, Teachers of Science,

and Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original

esign.
Special students in Architecture are received into a two-

Special students in Architecture are received in the construction of the construction of the construction of the cast callery of the Main Building.

For particulars address William R. Ware, Esq., Professor of Architecture, or Dr. Samt el Kneeland, Secretary, Boston, Feb. 1, 1876. MEDIAEVAL FOLIAGE. By J. K. Col-

	DOUBLE THICK. 6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50 8 x 10 - 10 x 15 21 00 19 50 18 50 17 50	PAINTS AND OILS. Chalk
LATEST NEW YORK QUOTATIONS.	11 x 14 — 12 x 16, 23 00 21 00 20 00 18 50	Whiting
Nov. 10, 1876.	15 x 24 - 15 x 32 30 00 28 00 25 00 — 16 x 32 - 20 x 30 32 00 30 00 26 00 —	Taris white, American, dry 61.6 a Size American, dry 61.6 a Size American, in oil, pure 114.7 a Bead, white, American, dry 9 a Lead, white, American, in oil, pure 104.7 a Size American,
BRICK. Cargo Afloat. D M. \$2 75 @ \$3 00	16 x 32 - 20 x 30 32 00 30 00 26 00	Lead, white, American, dry 9 @ Lead, white, American, in oil, pure. 101%@ 10
rsev @ \$3 00		Load, red, Allierican, 632 (6)
10. 2		
nverstraw Bay 5 25 @ 5 75	30 x 50 — 32 x 52 48 50	Ochre, French, dry (gold). — @ 1 5 Ochre, in oil (currency). 6 @ 1 Venetian red, English (gold). Pewt 1 85 @ 2 0 Spanish brown, dry. 11/2@
Nerstraw Bay, choice	34 x 58 — 34 x 60 55 00 50 00 46 00 —— 36 x 60 — 40 x 60 60 00 55 00 52 00 ——	Spanish brown, dry
ded, \$2 per M. for Hard, and \$3 per M. for Frontick.	36 x 60 — 40 x 60 60 00 55 00 52 00 ———————————————————————	Vermilion, Am. Quicksilver (gold) 70 @ 7
FRONTS.	more than 40 inches wide. All sizes above 52 inches in l	Carmine American cold 485 (a) 55
oton — Brown	length, and not making more than 81 united inches, will be charged in the 84 united inches bracket	Chrome yellow, genuine, dry 121/2@ 2 Orange Mineral English, gold 11/4/@ 1
oton — Red	Discount to the trade, 50 and 10 @ 50 and 10 and 5 per	Paris green, pure, dry 25 @ 3
enton 21 00 @ 25 00	AMERICAN WINDOW, per box of 50ft.	Putty, pure
dimore	Sizes. 1st. 2d. 3d. 4th. 6 x 8-10 x 15\$10 75 \$9 75 \$9 00 \$8 25	Duty 20 per cent. ad val. on calcined; lump, free
		Nova Scotia, white
CEMENT. sendale	18 x 22 13 25 12 00 10 75 9 50 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25	Calcined, city easting 2 00 (a) 2 :
3 95 (8) 3 50		
ene's coarse 7 75 @ 8 00	21 x 28 - 24 x 36, 20 25 17 50 14 00	SLATE. Delivered at New Young Purple roofing slate, Square. \$7 50 @ \$8
ene's fine 11 75 @ 12 00 FIRE BRICK.	28 x 44 — 30 x 50 24 00 21 50 16 75 —	Green slate
d Welsh \$40 00 @ —	20 x 56 - 34 x 56, 29 50 26 25 22 00	Black slate, Pennsylvania (at Jersey
otch	134 x 58 34 x 60 31 50 29 50 25 00 1	Peach bottom (nominally) 9 00 @ 10
DOORS, WINDOWS, AND BLINDS.		Slate tiles, 1½in., rubbed, \$\mathcal{D}\$ sq. ft. delivered
Doors, Raised Panels, Two Sides.	Discount, 70 @ 75 per cent. Also sold at 60 @ 60 and 5 from French list.	SOLDERS.
x 6.0 1½ in. \$1 00 — x 6.6 1¾ 1 14 —	COPPANIOUSE SEVERGUE AND FLOOR GLASS	No. 1
x 6.8 1 20 —	Forest F	TIN PLATES Duty, 1 1-10c. P h.
Doors, Moulded.	1 Flated plate 30 % Rough plate 1 00 % Flated plate 1 15	I. C. charcoa, 10 x 14. \$\Psi\$ box (cur.) \$8 50 @ \$8 I. C. coke, 10 x by 14
size. 1½ in. 1½ in. 1½ in. 1½ in.	1 Rough plate 40 1 Rough plate 1 30 Rough plate 1 30 Rough plate	I. X. charcoal, 10 x 14
x 6,6, 1 87 \$2 38 —	FOREIGN WOODS. — Duty free.	I. X. charcoal, 14 x 20
x 6.8 1 92 2 40 — x 6.10 1 96 2 47 —	CEDAR. Cuba	I. C. coke, terne, 14 x 20 7 00 @ 7
x 7.0	Mexican, small 0 6 @ 0 8	1. C. charcoal, terne, 14 x 20 7 50 @ 7
x 7.0 2 09 2 68 3 34	Florida	ZINC. — Duty, sheet, \$\psi\$ \$\frac{1}{15}\$. 214c. Sheet (gold) \$\psi\$ \$\frac{1}{15}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$
0 x 6.10		LEAD.
GLAZED WINDOWS.	good	Sheet 0
Dimensions of 12 Lights. 8 Lights. 4 Lights.	St. Domingo, logs, small 0 7 @ 0 10	A decline of ½ cent.
indows, 14pl. 14cc. 14cc. 14cc. 14cc. 14cc. 14cc.	St. Domingo, logs, large 0 15 @ 0 25 Cuba, logs, small 0 9 @ 0 15	Discount 10 per cent to trade.
x 3.6\$1.00 1.08 1.32 1.35	Cuba, logs, small. 0 9 @ 0 15 Cuba, logs, small. 0 9 @ 0 30 Frontera, Mexican, large 0 12 @ 0 16 Frontera, Mexican, small 0 7 @ 0 10	THE BOSTON MARKET.
x 4.61.45 1.52 1.64 1.67 — 1.69 1.81 x 4.101.56 1.64 1.77 1.80 — 2.02 2.15	Frontera, Mexican, small 0 7 @ 0 10	Nov. 10, 187
x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31	Other Mexican	NAILS. Builders' Hardware.
x 5.10 1.94 2.13 2.19 2.38 2.43 2.62	Rio Janeiro, ordinary to good D lb. 0 21/2 0 31/4	10d
0 x 4.61.59 1.66 1.80 — — 2.03 2.17 0 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53	Rio Janeiro, good to fine	8ff
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Rahia good to fine 0 3 @ 0 5	AXLE PULLEYS—Steel. 2 in., Pennsylvania make. 2 in., Boston make.
e means counted checked, plowed and bored for	Honduras	2 in., Boston make
sights. bt-Bed Sash, Glazed	Tulipwood	SASH WEIGHTS P b. 1
OUTSIDE BLINDS.	Lignumvitæ, large	Best hemp
r lineal foot, up to 2.10 wide\$——@ \$2 25 r lineal foot, up to 3.1 wide——@ 0 27	LUMBER.	DOOR BUTTS.
er lineal foot, up to 3.4 wide	Pine, good	Size - 42 x 42 5 x 5
Inside Biands.		Japanned Acorn \$4 00
r lineal foot, 4 folds, Pine	Pine, common box	Plain Bronzed Iron 80 92 \$\forall \text{ pair.} \\ Ornamental Bronzed Iron, 1 50 175 \$\forall \text{ pair.} \\ Ornamental Bronze Metal, 3 60 4 00 \$\forall \text{ pair.} \\ \end{array}
r lineal foot, 4 folds, Cherry or Butternut—— @ 1 10	Pine, tally plank, 14, 2d quality 35@ 38	MORTISE LOCKS - Brass face and bolt -
r lineal foot, 4 folds, Black Walnut — @ 1 20 WINDOW FRAMES.	Pine, tally planks, 1 4, culls	spring. 3½ to 4½ in
to 3.4 x 7.2, put together	Pine, tally plank, 1½, 2d quality. 35@ 38 Pine, tally planks, 1½, culls. 25@ 28 Pine, tally boards, dressed, good. 31@ 33 Pine, tally boards, dressed, common. 25@ 27 Pine, tally boards, culls. 23@ 24	Do., for front doors.
HAIR Duty free.	Fine, strip boards, merchantable 11 (2)	Factory make, plain front
ttle	Pine, strip boards, clear 25@ 28 Pine, strip plank, dressed, clear 35@ 38	Boston make, plain front 8 00 e
LIME.	Spruce boards, dressed	DOOR KNOBS.
ate, common, cargo rate	Spruce plank, 2in	Solid glass. Silvered glass. Cut glass.
ekland, common	Survey timber 17 M ft 17 000 90 00	Nickel plated Bronze metal.
ound	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	SASH FASTS D De
Add 25 c. to above figures for yard rates. GLASS.	Hemlock joist, 3 x 4	Plain brass. \$1 75 to 8 Plain brass, self-locking. 6 50 to
	Ash, good	Nickel plated, self-locking
Outy. — Window, Polished Cylinder, and Crown, not er 10 x 15in., 24c. \$\text{1} \text{ sq. ft.}; larger, and not over 16 4in., 4c. \$\text{1} \text{ sq. ft.}; larger, and not over 24 x 30in .6c.	Oak 40 00@ 50 00 Maple 25 00@ 50 00 Chestnut boards, 1in 45 00@ 55 00	SCREWS. D Gross.
sq. ft.; above that, and not exceeding 24 x 60in., 20c. sq. ft.; all above that, 40 ct. \$\psi\$ sq. ft. On Unpolished	Chestnut boards, 1in	Round head, nickel plated \ \$2 25 \$2
linder, Crown, and Common Window, not exceeding	Chestnut plank 45 00@ 60 00 Cypress, 1, 1½, 2, and 2½in 35 00@ 40 00 Black Walnut, good 80 00@ 100 00	for window beads, { 1½ 1¹ STORE DOOR HANDLES — with mortise lat
x 15in., sq., 1½c.; over that, and not over 16 x 24, 2c.; er that, and not over 24 x 30, 2½c.; all over that, 3c.	Black Walnut, %	Lacquered brass
lb.	Black Walnut, selected and seasoned110 00@ 150 00 Black Walnut counters	Bronze metal
FRENCH WINDOW. List of March 1, 1876. SINGLE THICK—per box of 50ft.	Black Walnut counters	TOSCHI'S ENGRAVINGS. From Free
Sizes. 1st. 2d. 3d. 4th.	Whitewood inch 38 00(a) 50 00	by Correggio and Parmegiano. Reproduced by
x 8 - 7 x 9\$11 00 \$10 50 \$10 00 \$9 50	Whitewood, %in. 30 00@ 38 00 Whitewood, % panels 35 00@ 40 00 Shingles, extra shaved pine, 18in. \$\psi\$ M 9 50@ 10 00 Shingles, extra shaved pine, 16in. 8 50@ 9 50	by Correggio and Parmegiano. Reproduced by Heliotype Process from the "Gray Collection of Engings," Harvard University.
x 10 - 10 x 15 12 00 11 00 10 50 10 00	Shingles, extra shaved pine, 18in. PM 9 50@ 10 00 Shingles, extra shaved pine, 16in 8 50@ 9 50	
x 14 — 12 x 16 13 50 12 50 11 50 10 75	Shingles, extra sawed pine, Isin 1 000 8 00	megiano's Saint Agatha, Saint Lucia, and Saint Apoll Two Deacons, and Saint George. Of Correggio's Fresc includes the Madonna della Scala, Diana in a Chariot,
x 14 — 12 x 16 13 50 12 50 11 50 10 75 x 18 — 14 x 24 14 00 13 00 12 00 11 25 x 24 — 15 x 32 17 00 16 00 14 00 13 00	Chingles clear sawed him tela c som " so	Coronation of the Virgin groups of Cherubs and An
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Shingles, clear sawed pine, 18in 6 50@ 7 50 Shingles, cypress, 24 x 7	A rare and valuable collection. Quarto. Price, \$10.00.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Shingles, clear sawed pine, 18in. 6 50@ 7 50 Shingles, cypress, 24 x 7. 20 00@ 22 00 Shingles, cypress, 20 x 6. 12 00@ 15 00	Coronation of the Virgin, groups of Cherubs and An A rare and valuable collection. Quarto. Price, \$10.00. JAMES R. OSGOOD & CO., Bos
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Shingles, clear sawed pine, 18in. 6 50@ 7 50 Shingles, cypress, 24 x 7. 20 00@ 22 00 Shingles, cypress, 20 x 6. 12 00@ 15 00	A rare and valuable collection. Quarto. Price, \$10.00. JAMES R. OSGOOD & CO., Bos LIENARD'S DECORATION AND ORY MENTATION. Specimens of the Decoration and
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Shingles, clear sawed pine, 18in. 6 50@ 7 50 Shingles, cypress, 24 x 7. 20 00@ 22 00 Shingles, cypress, 20 x 6. 12 00@ 15 00	A rare and valuable collection. Quarto. Price, \$10.00. JAMES R. OSGOOD & CO., Bos LENARD'S DECORATION AND OR. MENTATION. Specimens of the Decoration an amentation of the Nineteenth Century. By Liex Reproduced by the Heliotype Process. Upwards of designs, rich in hints to Architects and Decorators. I tolio, boards, \$27.00. Half moreoco. cloth sides, \$29.00. JAMES R. OSGOOD & CO., Bos

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash.

For Insane Hospitals, Fire Proof Buildings, &c.



D. M. MEEKER & SON. Newark, N.J.

Fine Castings of Malleable and Gray Iren, German Silver, and Composition; also Patterns a specialty.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Low-down and Half Le

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement precludes II possibility of overflow, by which buildings are so often amaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary weath-bowl. This guaranty accompanies every basin sold to our atrons:—

We hereby pledge ourselves to remove our basins, and place them with any other kind now in use, that parties sterested may select, without expense to them, immeditely on their failure to failf the following conditions, proded the trap is kept in running order:—

1st. We warrant our trap to remain free and open as mg or longer than any other trap used with wash-bowls, nd they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No swerr gas will escape from the drain or pipe, or ny offensive smell arise from them.

4th. These bowls will remain free and clear from any ccumulation of soap or grease or other offensive matter in he space between the liner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO.,

40 Oliver Street, Boston.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Ar Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Classics." \$1.00 each.

ENGLAND-Vol. I. (Aldborough - Furness Abbey. Vol. II. (Glastonbury-Nottingham.) Vol. III (Oakley-

Tynemouth.) Tynemouth.)
"We can conceive of no series so charming, when completed, as this, or one which promises to become so popular."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE. THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the popular "Little Classic" HAWTHORNE. With Index of Subjects in the entire series. §1.25.

The Each of the twenty-three volumes contains a new Vignette Illustration.

"We cannot sufficiently praise this splendid edition of Hawthorne. The publishers are to be congratulated on their artistic success with it, and it should be in every library."—New Haven Journal and Courier.

ILLUSTRATED LIBRARY HAWTHORNE. FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Hustrations. 12mo. \$2.

This volume completes the Hustrated Library Edition of HAWTHORNE'S WORKS, in 12 volumes, 12mo, each containing two Hustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING. By Dr. John Brown. Hlustrated. Flexible cloth, 53 cts. A beautiful Pocket Edition of two of the most charming Stories in the English language. "Rab" and "Pet Marorie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll.

Author of "Alice's Adventures in Wonderland," &c., with nine liustrations by Henry Holiday.

1 vol., 32mo. 59 cents.

A cheap edition of a curious and entertaining little book, in which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujubs, Snarks, Boojums, and other grotesque and amusing folks. The readers of "Alice's Adventures" will need no second invitation to read "The Hunting of the Snark."

* For sale by Booksellers. Sent, post-paid, on receipt of

JAMES R. OSGOOD & CO., Boston. E. P. DUTTON & CO., No. 713 Broadway, New York. al Agents for J. R. O. & Co's. Publications.



National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings,

Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our art re invited to confer with us.

STEAM HEATING. LE BOSQUET'S STEAM HEATING APPARATUS.



The value of steam as a means of furnishing heat to our dwellings and public buildings has become a recognized fact; and it needs only that its cost shall be brought within the reach of those of moderate means, to make it deservedly popular. This end we have reached with our Biller, not however by any sacrifice in quality of material employed, or workmanship, but by a simple combination of parts, whereby we accomplish the desired object, securing economy both in material and labor. Our Portable Boiler, especially, is easy to erect, efficient in operation, and moderate in cost. Parties who have a preference for this method of heating should examine this Boiler at our salesroms. It has been in practical operation in buildings and private residences the past winter; and its working has been eminently satisfactory in every respect. We issue a Pamphlet with a fine description of the Boiler, which will be sent to any address upon application. Manufactured by

LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illus-trations. 16mmo. \$1.50 JAMES R OSGOOD & CO BOSTON

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING an be shown looking much fresher than any other paint of

Its surface is a perfect enamel, from which any specks of dirt may easily be removed.

irt may easily be removed.

It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

DISCOURSES ON ARCHITECTURE.

By VIOLLET LE-DUC. Translated, with an Introductory Essay, by HENRY VAN BEINT, Fellow American Institute of Architects. Fully Illustrated. I vol. royal Svo. 88.90.

JAMES R. OSGOOD & CO., BOSTON.

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS,

TRACING CLOTH,

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper, Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND.

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.





(ESTABLISHED 1844.

PARLOR GRATES

H. M. CREAMER.

86 North Street, Boston

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon.

Fred. Reed,

E. Hixon, jun

UPS AND DOWNS ON LAND AND "TURNIng over these pages is like gathering around a fire-side to listen to the bright and entertaining stories of a friend who has tracked and kept his eyes well open. Only Mr. Hoppin's peculiar most men's request and withy than most men's who has travelled and the strength and will, the Hoppin's pencil is more elequent and will, the Hoppin's pencil is more elequent and will, the Hoppin's pencil between James R. OSGOOD & CO., Boston.

A RT FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

**s* For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.



CHURCH FURNITURE.

Hlustrated Catalogues Post Free.

Wood Work | Matal & Ston; Work | Banners & Decoration to the livets. | 10 cts. | 1

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from

20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET.



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

J. Tillotton S. Ca. S. Ley at. Q. Ociomo & Sons. 509 standay, has. E. Kugler, 10 Division st., bubinger, 188 Grand st. C. A. Sto. Brooklyn, (E. D.) N. Y. — Albany. Maurice E. Vicle Rochester. — Pollock, Wea Buffalo. — C. H. Utley, 82 P. Philadelphin. — Thomas Nobili, Brown, Nobili, & Co. 2. Application of the Computation of the Comput

Win Bingham & Co. 189 Water st.

Win Bingham & Co. 189 Water st.

Win Bingham & Co. 189 Water st.

Wayne & Son. 124 Main st.

Khilman, 504 Main st; J. L.

Nayne & Son. 124 Main st.

Co. 16 With ave; J. Liebenstein & Co. 22 Randolph st.

Betrait, - Buhl, Ducharne, x Co. 108 Woodbridge street.

St. Louis. - Geo. A. Rubelmenn & Co. 87 N. 6th st.

Washington. - F. P. May & Co. 64 Fenneywania venue.

San Francisco. - B. L. Solomon & Sons, 4th Market street.

Montreal. - James Walker & Co. 16 St. James H.

Mannilton. - June Walker & Co. 16 St. James H.

Mannilton, Ont. - Watson & Thompson, 16 McNab st.

Mannilton, Ont. - Watson & Thompson, 16 McNab st. Hamilton, Ont. - Watson & Thompson, 16 McNab st.

23" Our goods can be purchased of the above Agents at the
ame prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

BOSTON.

BOSTON.

P. TOLMAN & E. A. HUNTING,
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Reuts.
MORTGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAME	S R.	OSGOOD	&	CO.,
WINTHROP	SQUARE			. Boston

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

RATES OF A	D	VE	R	PE	SI	NG	k.			
On the first page, and page	13	nes	tt	to	ed	lito	ria	1 1	matte	r. 12
cents per line (agate), or \$1.7										
One such, one month .									\$7.00	
One inch, three months									20.00	
One inch, nine months.							0		58.00	
One inch, one year On other pages, 10 cents pe									70.00	
On other pages, 10 cents per inch.	er	lim	B (èac	h	ine	er	tio	n, or	\$1.4
One inch, one month .										
One inch, three months									16.00	
Oue inch, nine months									46.00	
One inch, one year								*	58.00	
No extra charge for cuts, or i			ve	rtis	sei	me	nte	tl	iat oc	cupy

Publishers' Department.

Classified Advertisements.

The following is an alphabetical list of the ments which appear in this number of the AMERICAN Architect and Building News. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to cata-logues and circulars, but all desire a publication to which they can refer for desired information. The classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. tisers will at once appreciate the excellence and convenience of the arrangement.

ARCHITECTS' AND ENGINEERS' STATIONERY, &c.
Wadsworth Bros. & Howland, Boston
ARCHITECTURAL BOOKS.
A. J. Bicknell & Co., New York
ARCHITECTURAL IRON WORK.
D

A.RC	HITECTU	RAL D	RON	WOT	ill.			
1	Bartlett,	Robbin	18, &	Co.,	Balt	imore,	Md	
ARC	HITECTI	RAL S	CHOC	L.				
- 2	Mass. In	stitute	Tech	inolo	gy, I	Boston.		
ART	IFICIAL	WOOD	ORN	AME	NTS.			

ARTIFICIAL WOOD ORNAMENTS.
W. B. Gleason & Co., Boston
Bricks.
Sayer & Fisher, Newark, N.J
BRONZE DECORATIONS.
National Fine Art Foundery, New York
BUILDERS AND REAL ESTATE IMPROVERS.

BUILDERS' HARDWARE.
Burditt & Williams, Boston
BUILDERS IN IRON.
George Dwight, Jr. & Co., Springfield
BUILDING STONE.
Care Ann Granite Company, Boston

CABINET FURNITURE AND UPHOLSTERY
Edward Hixon & Co., Boston
CHURCH AND HALL ORGANS.
New England Organ Co., Boston

J. & R. Lamb, New York	
Braman, Shaw, & Co., Boston	0
CHURCH ORGANS.	

E. & G. G. Hook & Hastings,	Boston	iv
CONTRACTORS AND BUILDERS.		
W. H. Warren, Boston	7	iii
Mead, Mason, & Co., Boston .	· · · · · · · · · · · · · · · · · · ·	illi

DESIGNING AND		ENGRAVING.
W. J. Dana,	Boston	***********
Dinagor Dane		

...... 1

N. E. Drain Pipe Co. Boston	
Waldo Brothers, Boston	
ELECTRIC BELLS. ANNUNCIATORS, &c.	

Reduction of the Common		
Tufts' Elev	ator Works, B	oston
ELEVATORS, S	TEAM ENGINE	68, &c.

11.	hittier	Machine	Co.,	Boston.	
FELT	ROOFI	NG.			
No	TO TO-1	A D O	- 0-	20	

D. E. Pell	Rooning	Co., Boston.
FIRE-BRICK A	ND CHI	MNEY-TOPS.
Waldo Bro	others, B	loston

RAME-A MOOL D	UILDINGS.			
Fire-Proof	Building Co.,	New	York	

FURNITURE AND DECORATION.
Roeth & May, Boston
FURNITURE, WOOD MANTLES, &c. C. J. Soyard, Boston
Fresco Painters.

	W. J. Mcl'herson, Boston
	Philip A. Butler, Boston
	Wallburg & Sherry, Boston
	L. Haberstroh, Boston
	William S. Brazer, Boston
7.	a Properties

R. Hollings & Co., Boston	
Mitchell, Vance, & Co., New York	
S. A. Stetson & Co., Boston	
Archer & Pancoast Manuf. Co., New York	
M. W. Peirce & Co., Boston	

	GAS MACHINES.
	Andrew G. Paul, Boston
21	INTERIOR WOOD-WORK, DECORATIONS, &C.
29	Pottier & Stymus Manufacturing Co., New York

IRON							.,	
Б	ling	Iron	Bridge	and	Manu'f	. Co.,	Cleveland,	0
IRON								

IRON CORNICES.	,
Smith & Van Noorder	, Boston
IRON MERCHANTS.	
John H. Reed & Co.,	Boston

1	IRON WORK FOR BUILDINGS.
I	J. B. & J. M. Cornell, New York
l	LINEN HOSE.

LINEN E	OSE.					
New	England	Linen	Hose	Manuf'g	Co.,	Boston.
LOCKS A	ND ORNA	MENT	AL B	RONZE E	LARD	WARE

	LOCKS AND ORNAMENTAL BI	RONZE HARDWARE
1	Yale Lock Manuf'g Co., St	amford, Conn
.	MARBLE FLOORING TILES.	

1	Yale Lock Manuf'g Co., Stamford, Conn
1	MARBLE FLOORING TILES.
1	George Barney, Swanton, Vt

George Barney, Swanton, Vt
ORNAMENTAL AND CUT GLASS.
I Continue Van Vanh

ORNAMENTAL BRONZES.
Mitchell, Vance & Co., New York

Mitchell, vance & Co., New	Kori		******
Archer & Pancoast Manuf'g.	Co.,	New	York
DRNAMENTAL IRON WORKS.			
Rubier & Co Roston			

	Bubier & Co., Boston	rlii i	
)	PAINT.		
	Asahel Wheeler, Boston	iv	
	PAPER HANGINGS.		
	II D Your & Co. D		

H. B. Jones & Co., Boston
PARLOR GRATES.
H. M. Creamer, Boston
PARLOR GRATES, BRASS FENDERS AND IRONS, &c.

	PARLOR GRATES, BRASS FENDERS AND IRONS, &c
	Murdock Parlor Grate Co., Boston
,	PLUMBERS' MATERIALS.
	Hawthorne & Tucker, Boston

Hawthorne & Tucker, Boston
PLUMBERS' SUPPLIES.
Jennings' Sanitary Depot, New York
ROOFING PLATES AND METALS.

Fuller, Dana, & Fitz, Boston.
SHUTTERS (ROLLING WOOD).
Wilson & James, New York.
SHUTTERS (STEEL).

Clark & Co., New Yor	
Wilson & James, New	York
SIGN AND ORNAMENTAL	PAINTERS.
Warner Railey Roston	1)

SKY	LIGH	TS.				
,	The I	Iayes	Patent,	New	York	
	Smitl	1 & V	an Noor	den, l	Boston.	
1	Smitl	1 & V	an Noor	den, l	Boston.	

Aur Shing Dutt Co., New York
STAINED GLASS.
Falck & Schwabe, Boston
W. J. McPherson & Co., Boston

 v	STEAM HEATING APPARATUS.	^	
	Le Bosquet Bros., Boston	iv	
	STEAM PUMPS.		
 vii	Geo. F. Blake Manufacturing Co., Boston	4	

a.	Geo. F. Blake Manufacturing Co., Boston
	STONE DRESSING WORKS.
V	George Brown, Newark, N.J.

97	Palmer, Parker,	\$	Co.,	Boston	 	 		0.0	0.0
	VENTILATION.								
4	W. H. Kimball,	Bo	ston		 	 	0.0		

viii

N. E. Drain Pipe Co. Boston	W. H. Kimbali, Boston
Waldo Brothers, Boston iv	WINDOW SASHES.
LECTRIC BELLS, ANNUNCIATORS, &c.	D. M. Meeker & Son's, Newark, N J
S. W. Fuller, Boston i	WELLINGTON'S PATENT WASH-BOWL

WOOD CARPETING, &c. The National Wood Manuf'g Co., New York v

The advertising columns of the AMERICAN ARCHI-TECT AND BUILDING News are used as a DIRECTORY
by the architects and builders of the country. Our
patrons receive numerous orders from the cards which they insert, a.d from parties whom they would not otherwise reach. Specimen copies of the paper are

Heliotype Art-Works.

The reception of Toschi's engravings, Landseer's and Raphael's works, as reproduced by the heliotype process, has been so hearty that J. R. Osgood & Co. shave arranged to bring out the present season four similar volumes. One of these, to be called "Gems of the Dresden Gallery," will include Raphael's world-famous Sistine Madonna; Correggio's Reading Magdalen, La Notte, the Physician, and St. George; Carlo Dolci's St. Cecilia; Guido Reni's Ecce Homo, and Semiramis and Ninus; Holbein's Madonna; and other celebrated engravings after Titian, Caracci, Paolo Ve-ronese, Rembrandt, Rubens, Van Dyck, and other famous artists.

The second volume, the "Gallery of Great Artists," contains fine portraits of Leonardo da Vinci, Raphael, contains fine portraits of Leonardo da Vinci, Raphael, Michael Angelo, Correggio, Titian, Caracci, Guido Reni, Velasquez, Murillo, Salvator Rosa, Poussin, Greuze, Claude, Dürer, Holbein, Rembrandt, Rubens, Van Dyck, Hogarth, Reynolds, Landseer, Turner, Copley, and Stuart. Most of these portraits are by the artists themselves, and all are of great merit and interprets. interest.

The third volume contains "Gems of the Gray Collection" in Harvard University, including the Transfiguration, and Galatea, by Raphael; the Last Supper, and the Fight for the Standard, by Leonarda da Vinci; II Giorno, and St. Catherine, by Correggio; Aurora and Doctors of the Church, by Guido; the Immaculate Conception, by Murillo; the Lion Hunt, by Rubens; Christ crowned with Thorns, by Van Dyck; the Knight of Death, by Dürer; the Three Fates, by Michael Angelo; Belisarius, by Salvator Rosa; the Distressed Poet, by Hogarth; and others of like renown.

The fourth volume is the "Titian Gallery," comprising the most famous of this great master's works, — his portraits of himself, his daughter, his mistress, and Venus, Davaë it he Markerloun of St. Peter, the Il Giorno, and St. Catherine, by Correggio; Aurora

and Venus, Danaë, the Martyrdom of St. Peter, the Tribute Money, Sophonisba, the Virgin and Child, and others.

Each of these heliotype volumes will contain twe four choice engravings, accompanied by descriptive letterpress. The whole will form a very attractive art-gallery, both for the lover of beautiful pictures and for the art-student.

A Superb Gift-Book.

i Messrs. James R. Osgood & Co. have selected for their special holiday volume Mr. Longfellow's ballad, "The k.....viii Skeleton in Armor." Not a few of the poet's closest ew York......viii Skeleton in Armor." Not a few of the poet's closest students and warmest admirers rank this ballad among in foremost achievements. Miss Mary A. Hallock, the artist to whose genius "The Hanging of the Crane" and "Mabel Martin" owed the exquisite pictorial attractions which gave them so remarkable popularity, has drawn many full-page illustrations for "The Skel-eton in Armor;" and those who have admired her pro-vious designs will find in these a more decided power, with no loss of the grace and tender charm which characterize those. The engraving has been done by Mr. A. V. S. Anthony, who in his department of art has no equal in America and no superior in the world. Paper, printing, and binding are of the best; and altogether "The Skeleton in Armor" will probably be the

Dottings round the Circle.

This is the title of a book describing a journey around
y
the globe recently made by Mr. Benjamin Robbins
Curtis of Boston. His course led through Japan, China, India, Egypt, Italy, France, and England; and he carried letters that gained for him peculiar privileges and opportunities for making his tour rich in experience and observation. He was in China while the excitement caused by the Margary murder was at its excitement caused by the same and the page antry and popular beight. In India he witnessed the page antry and popular enthusiasm attending the visit of the Prince of the with heliotypes from photographs collected by Mr. Curtis, representing a Japanese peasant-woman, a Chinese mandarin and his wife, a gateway at Shiba, the Burning Ghât of Benares, a street in Pekin, the interior of a Buddhist temple in Canton, a view in Buitenzorg in Java, a Chinese police-court, an Egyptian dancing-girl, and other interesting views.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and aunouncements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country. the country.

G,

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by

Patent Slate Paint.

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by pulication of this state, be made to last from twenty to wenty-five years. Old roofs can be patched and coated, soking mu h better, and lasting longer than new shingles githout the state, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the cos-simply laying teem. The paint is FIRE-PROOF agains arks or flying embers, as may be easily tested by any one

IT STOPS EVERY LEAK,

nd for tin or iron has no equal, as it expands by heat, coracts by cold, and KEVER CRACKS now scales. Roofs core with far Sheathing Felican be made water-tight at mall expense, and preserved for many years.
This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle of, while on tin, iron, felt, matched boards, or any smooth urface, from two quarts to one gallon are required to 10 are foot of surface, and although the sale of the race, from two quarts to one gallo i are required to 100 hare feet of surface; and although the paint has a heavy by, it is easily applied with a brush.

No Tar is used in this Composition.

therefore it neither cracks in winter, nor runs in summer.

On ecayed shingtes it fills up the holes and pores, and
gve a new, substantial roof that will last for years. Current
or warped shindes it brings to their places, and keeps
them there. It fills up all holes in felt roofs, stops the leaks,
and, although a slow dryer, rain does not affect it a few
hours after applying. As nearly all paints that are black
or night rah, be ure you obtain our Genuine article, which
(for shingle roofs) is

5	gallons,	can a	nd	box	 	 	 		 		 		6 4	 		!	\$5
	69	keg.			 	 	 	 			 						9
20	4.5	half	13:31	rrel													16
40	9.5	one	bar	rel.	 		 	 			 				-		30

We have in stock, of our own manufacture, roofing materials, &c., at the following low prices: -

1000 rolls extra Rubber Roofing, at 3 cents per square foot. Or we will furnish Rubber Roofing, Nails, Caps, and State Sunt, for an entire new roof, at 4's cents per square foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1% cents per square foot. 3000 rolls 3-ply Tarred Roofing Felt, at 2½ cents per square

not.
200 rolls Tarred Sheathing, at % cent per square foot.
1000 barrels Slate Frour, per barrel, \$3 60.
1000 barrels Grafton Mineral, per barrel, \$3.00
900 gallons fine Enamel Plant, mist d ready for use, on
1-ide or outside work, at \$2.00 per gallon. Send for sample
ard of colors.

All orders must be accompanied with the money or satis-uctory city references. No goods shipped C. O. D., unless xoress charges are guaranteed. Sample orders solicited.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. E. Banker. David. Mills are a series of Language and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. E. Banker. David. Member of the Institute of France.

This volume contains twenty-four Plates, reproduced in Jac-simile and with admirable success by the Hellotype Profess. The subjects represented are "The Visitation," "The Holy Family" (two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTOM.

ANNALS OF A FORTRESS. Translated



FURNITURE

ORIGINAL DESIGNS

BRAMAN, SHAW, & CO.,

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston. FACTORY: EAST CAMBRIDGE.

VIOLLET-LE-DUC'S WORKS.

THE STORY OF A HOUSE. Illustrated by the Author. Translated by George M. 20WLE. I vol. 8vo, beveled boards, red edges, 85.60.

"The bas s of the story is the building of a château on the true principles of architec ure. The chief characters are M and Mme. Gaudalaus; their newly married daugh'er, for whom a new château is to be built during her absence on the wedding tour; their soo Faal, aged six teer; and a coustin Eugene, who is an architect. Their practical ns istent is Master Branchia, a div. wd builder's foreman, or small comments.

and, although a slow dryer, rain does not affect it a few hours after applying. As nearly all paints that are black to risingle roofs is

CHOCOLATE COLOR,

when first applied, changing in about a month to a uniform slate color, and is to all intents and purposes SLATE. On TIN ROOFS

our red color is usually preferred, as one coat is equal to five day ordinary paint. For

BRICK WALLS

our brick walls and purposes from penerating and discoloring the plaster. The points are also largely need on outhouses and fences, or as a priming coat on the building.

The points are also largely need on outhouses and fences, or as a priming coat on the building.

NEW YORK CASH DRIGHT RED, BRIGHT RED, and DRAMES.

NEW YORK CASH DRIGHT RED, BRIGHT RED, and DRAMES.

NEW YORK CASH DRIGHT RED, BRIGHT RED, and DRAMES.

NEW YORK CASH DRIGHT RED is the only reliable Red. and DRAMES.

NEW YORK CASH DRIGHT RED, BRIGHT RED, and DRAMES.

NEW YORK CASH DRIGHT RED, BRIGHT RED, AND DRIGHT RED. NEW YORK CASH DRIGHT RED. The red was an included the red country of the same master hand, make this latest work of M. Violette-Due the most under our notice. Anner can Bailder (New York).

ANNALS OF A FORTRESS. Translated by lename Buckers, architect. I volume 8vo, Eighty-dive illustrations, several in colors. \$3.00 'M. Violici-le-Duct is an accomplished architect, an able, military encineer, and an ingenious and fascinating writer. His 'Sory of a House' display distrate in the first capacity; his 'Annals of a Fortress' exhibits his perius in the second; whil his skill in the thirl isstrib-ingly illustrated in both of these exceptional, y handsome volumes. In the last named this glitted and brilliant author describ a the locating, planning, creeting, and effending through seven euccessive sie cs, of an imaginary fritification on the River Clust', an affluent of the Saöne in France. Each chapterin its history is set forth with the greacest (aboration and strictest regard)

could be found in any other way short of the research and study which the author has himself given to the matter M. Visilet-ie-Duc is master of the subject, and imparts his learning in a thoroughly fascinating manner."—Saturday Review (London).

"He has made of his history of the art of fortification at once a valuable hand-book and a very charming romance; a work that combines anusement with instruction in a very rare degree."—Pall Mall Gazette.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A and E. Varin. Reproduced by the Heliotype Process, two Louding Country Houses in several Swiss Cantons. Drawn and engraved by
A manual Country Response of the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses in Several Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses of the Swiss Cantons. Drawn and carried by the Heliotype Process, two Louding Country Houses of the Main In Albard. A were with the process of the Battles and Sages are as vivid as any thing of the kind in Albard. A warrely lead to the Heliotype Process, the Heliotype

tons' Journal.
"A very interesting and instructive work on the science of fortification, and adapted to the comprehension of ur professional people. It is, in fact, a history of the development and progress of military defences from the rudest kin to the vast works now required to withstand the terribengines of modern war." — Boston Advertiser.

HOMES AND HOW TO MAKE THEM.
By E. C. GARDYER. Illustrated. I vol. square 12mo.
JAMES R. OSGOOD & CO., BOSTOR.

CHURCH AND LODGE The American Architect and Building News.

THE PAPER FOR ARCHITECTS, BUILDERS, AND ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS.

EVERY SATURDAY,

BY JAMES R. OSGOOD & COMPANY,

WINTHROP SQUARE, BOSTON.

BEING devoted to the Architectural and Building Inter ts of all sections of the country, it offers special induce-

AS AN ADVERTISING MEDIUM,

to Manufacturers and Dealers in Builders' Materials, as well is to Decorators and those engaged in the various branches

as to Decorators and those engaged in the various branches of Interior Decoration, &c.

Each number contains editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building: critical notices of buildings, and of architectural and artist publications; notes of discussions in archaeology and oth departments of the history of art. ssions in archæology and other epartments of the history of art.

A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

of various Architectural Designs, accompanying each nun ber, which are contributed by architects in different parts of the United States.

Another valuable feature is now added in the publication

PRICES OF BUILDING-MATERIALS.

the list being made up just before going to press each week.

The publishers respectfully request the co-operation of those professional and business men, to whose interests it is devoted, to add to the popularity and value of the "AECHIned of interest to its readers

The American Architect and Building News

Is for sale by all respectable newsdealers, and is mailed, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING,

Winthrop Square, Boston.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES,

ENAMELLED SLATE MANTELS (as beautiful and durable, and 25 per cent cheaper than

ROOFING SLATES, SLATE URINALS. BLACKBOARDS FOR SCHOOLS, &c.

Parlor Grates, Frames, and Registers

JOSEPH W. GRIGG, No. 59 Bromfield Street, Boston.

ANDREW G. PAUL,

119 Court Street, Boston.

TWO PRIZE MEDALS.

WOOD SHUT



AT PHILADELPHIA

J. G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof. Are also offered at reduced rates

PRICE LIST.

WILSON & JAMES,

68 Beekman Street, New York. State rights for patent Shutters for sale. Agents wanted.

YALE LOCKS, "STANDARD" LOCKS.

Ornamental Real Bronze Hardware.

THE YALE LOCK MANUFACTURING COMPANY. HENRY R. TOWNE, President.

Principal Office and Works Stamford, Conn. Salesroom No. 53 Chambers St, New York.

ILLUSTRATED CATALOGUES furnished free to Architects on application

ESTABLISHED 1838.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch).

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, WHITE HOLLY, THUYA, MAHOGANY, ROSEWOOD, etc.,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters,

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourn



SEWERGASSHUTOFF!





JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS PATENT SIX. JOHNINGS PATENT WATER CLOSETS, ENNINGS PATENT PERSON URINAL.

Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinals, atent Lutrines, and other specialties (the peculiarity of all of which is the thorough colusion of sweer gas), with a large stock of general piumbers' supplies on hand. Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS. Manufacturer of Fine Furniture, and Importer of re.

Etchings and Engravings. No. 170 Tremont St., Bosto and Importer of rare

THE NATIONAL ODE

Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

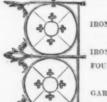
In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

eyear.

. For sale by all Booksellers. Sent, post-paid, on receipt of price by the publishers.

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works



For Building

IRON AND WIRE RAILING, IRON CRESTINGS.

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES,

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work. Send Stamp for Catalogue

BUBIER & COMPANY, 118 MILE STREET, BOSTON

DEALERS in Architects' and Builders' Supplies should advertise in the AMERICAN ARCHITECT

ARCHITECTS.

WROUGHT AND CAST IRON OF CLARE WESTON, CLARE WESTON, A RAND,

(Late WESTON & RAND, 17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 23 FEDERAL ST.
BOSTON

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
Nos. 488 & 499 HARRISON AVENUE, BO

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord. N. H. Offices, 10 Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given. C. H. HALL, Stair Builder, and Manufac turer of Stationary Wash Stands, 37 Haverhill St., Boston. Posts, Rails, Balusters, & Office Rails, furnished to order

EXAMPLES OF MODERN ARCHITEC.

THE. From designs by SCOTT, STREET, COLLING
and others. I vol. quarto. 64 plates. \$15.00.

Containing designs for Churches, Cathedrale, Colleges
Hals, Ballway Stations, Museums, Model Dwellings, Baths
&c.

AMES R. OSGOOD & CO., Bostow



Franklin Press Rand, Avery, & Co., Boston.

CHILD-LIFE IN PICTURES. Containing twenty-four Heliotype Plates, from Cornegogo, Copley, Reynolds, Gerler, Lawrence, Murillo, Gerard, Rappale, and other celebrated painters, forming a series of charming pictures of children and child-life. Quarto, Price, \$10.06. JAMES IL 08600D & CO, Bostox.







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 47.1

T

1

S,

re

SATURDAY, NOVEMBER 18, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Philadelphia.

LAWRENCE, WILDE, & CO., MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and on-

NEW ENGLAND LINEN HOSE MANU MENGLAND LINEN HOSE MANU Office, 111 Broadway, N.Y. WHITTIER MACHINE CO.

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Subsroom, 339 Washington St.,
HOSFON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesaie L BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,

AND BURGLAR ALARMS,
For Public and Private Buildings.

THE BEST IN USE S. W. FULLER,

63 Devonshire Street, Boston

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)

PRESSED FRONT BRICK.

MOULDED, ARCHED, SPLAYED, AND FOLIATED BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK. Works at Sayerville, on Raritan River, N.J.,

Office, NEWARK, N.J.

CHARLES BOOTH,

ECCLESIASTICAL AND DOMESTIC

GLASS STAINER,

ORANGE, N.J. No. 10 JACKSON STREET,

FOR SALE. — Complete set of "The Architect," London. Vols. I to 15, inclusive, in half morocco. Present year not bound. Price, \$89. Address Lock-Box No. 2, Pinladdelphia.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. H-llow Blocks of any pattern, uniting rength, and resistance to fire and water. The Hydraulic me of Tell (France), one of the atrongest cements kn.wn., largely used in this manufacture. The blocks do not much theat, cold, or sound, and weigh sixty per cent 1.ss

of partitions, floor arches between iron beams, der wooden or iron beams, in the following

cenings under wooden or iron beams, in the following buildings:
Western Union Telegraph,
Det. and Hudson Canal Co.,
Equitable Life Assurance,
Wilmsbig, Savings Bank,
Westminster Hotel,
Syracuse Savings Bank,
Columbia College,
Columbia College,
Statistic St

Manufacturers of Steam and Hydraulic

ELEVATORS,

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Tremont Street, Boston.
Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.
CHARLES WHITTIEE, Pres. JAMES STUEGIS, Trens.

MINTON'S ART AND ENAMELLED

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES. T. ASPINWALL, Sole Agent, 33 Murray Street, New Yore.

Bartlett, robbins, & co.,

ARCHITECTURAL IRON WORK,

ORNAMENTAL IRON WORK, GALVANIZED IRON WORK,

HOT WATER, HIGH AND LOW PRESSURE STEAM HEATING.

HEATING.
HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.
Works, cor. Pratt and Scott Sts., Office 24 Light St.,
Baltimore, Mp.
New York Office, 68 Beckmen Street.

JOHN H. REED & CO.

IRON MERCHANTS.

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in
Manufacturers of and Dealers in
Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig,
and Raifroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Andle and T Iron,Boiler and Tank
Rivets, Lap-Welded Iron Boiler Tubes,
Wrought Iron Steam and Gas Pipe.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

ANUFACTURERS OF "TUFTS' PATENT" COMBI-

NATION ROPE ELEVATOR,

TO BE OPERATED EITHER BY STEAM OR WATER.
The only safe and reliable machine made for l'assenger use I rubit Buildings and Hotels, and for business purposes in Yarchouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 243 Broadway, New York.
L. A. Bigelow,
resident. Treas'r and Gen'l Manager. OTIS TUFTS, l'resident.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO. CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

ARCHER & PANCOAST MANUF. CO.,

A MANUPACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE.
67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOME,
NEW YORK.

Broadway cars pass the door.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WAREROOMS, No. 597 BROADWAY, NEW

GAS FIXTURES
OF EVERY DESCRIPTION
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 587 Washington St., BOSTON.

GALVANIZED IRON CORNICES, Campbell's Pater t Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished

FULLER, DANA, & FITZ,

110 NORTH STREET, BOSTON.

METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.

Exclusive Boston Agents for the sale of The Union
IRON MILLS Solid Wordert Inon Israms, and The
"Burden Beet" Iron, Tensile Strength 78,009 lbs.

NEW ENGLAND DRAIN PIPE COMPA N NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

CAPE ANN GRANITE COMPANY

—Furnish—
GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & FAVING BLOCKS,
SIMIONS BUILDING, 40 WATER ST., HOSTON.
Quarries: BAY VIEW, GLOUCESTER, MASS.
JONAS H. FERSOR, I'res.
SCOTT WEBBER, Supt.

BEEHIVE BRAND FELT ROOFING for Flat Roofi. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Buston.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

PLUMBERS' MATERIALS to Builders at Wholesale Prices HAWTHORNE & TUCKER, 16 Province Street, Boston.

BUILDERS' SUPPLIES.

M ONS. C. J. SOYARD, formerly 12 West Manyete, designer and maker of FURNITURE, WOOD MANYELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, WEART TERMONT, BOSTON.

HENRY B. JONES & CO.
Importers, Jobbern, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

GEORGE BROWN,
STEAM STONE-DRESSING WORKS.
254 TO 270 PASSAIC STREET, NEWARE, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RALIROAD CARS,
OFFICES, &C., No. 26 West 4th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

FOR MARBLE FLOORING TILES, GEO. BARNEY, Swanton, Vt.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET! BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER.

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church.
Boston.

WARNER BAILEY, Sign and Ornamental Painter, 5 Merrimac Street, Boston.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business; FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

PROPOSALS.

PROPOSALS.

TO CONTRACTORS. — Sealed Proposals will be received by the President of the Board of Trustees of the village of Hyde Park, until Tuesday, Nov. 21, machinery and appurteanness for the article of the manufacture of the village of Hyde Park, until Tuesday, Nov. 21, machinery and appurteanness for the author draining in machinery and appurteanness for the author draining in machinery and appurteanness for the author draining in machinery and appurteanness for the author with the properties of the surface of the received by the Board of Trustees, and the properties of the pr

CITY HALL. — Sealed Proposals for furnishing certain materials for the New City Hall Building will be received by the Board of New City Hall Building will be received by the Board of New City Hall Commissioners of the city and county of San Francisco, in the most of the City and county of San Francisco, in the most of the City and county of San Francisco, in the most of the City and county of San Francisco in the missioners of the City of the Cit CITY HALL. - Sealed Proposals for fur-

Company's building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Syntaglical last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country. "Minimum of nettal, maximum of stiffness, maximum of clinch; the best latt ever made, either wood or from." See See Work Proof South and the country of the country

PROPOSALS.

Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & Co., BOSTON.

MASS. INSTITUTE OF TECHNOLOGY.
This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechancal, and Mishing Engineers, Architects, Teachiers of School,

nd Manufacturers.

The Course in Architecture embraces, besides the neessary scientific and mathematical studies, the study of
rchitectural history, and the constant practice of original

sign. Special students in Architecture are received into a two-

Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address William R. Ware, Esq., Pro-fessor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.

ENGRAVINGS FROM LANDSEER.

ATTEST NEW YORK QUOTATIONS.	BUILDING MATERIALS.	DOUBLE THICK. 6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50	PAINTS AND OILS. Chalk
Dallock	······	8 v 10 10 v 15	China clay Mt ton (currency) 90 00 00 99 00
Second Content Seco		11 x 18 — 14 x 24 24 50 22 00 21 00 19 50 15 x 24 — 15 x 32 30 00 28 00 25 00 —	Paris white, Eng. (gold)per 100 b 1 65 @ 1 80 Zinc, white, American, dry 61/20 71/2
Section	BRICK. Cargo Afloat.	22 x 30 - 15 x 38 34 00 32 00 28 00	Lead, white, American, dry 9 @ 9th
Section Sect	Jersey @ —	24 x 36 - 24 x 40 40 00 36 00 32 00	Lead, red, American 84 @ 81
An admitted large even will be charged for all gives Sections Power Section Power Powe	Up-River	26 x 46 - 30 x 48 46 50 42 00 38 00	Ochre, French, dry (gold) @ 1 50
Section Port	Vard prices 50 c per M higher or with delivery	32 x 54 — 34 x 56 50 00 46 50 42 00 — 34 x 58 — 34 x 60 55 00 50 00 46 00 —	Venetian red, English (gold). Pewt 185 @ 200 Spanish brown, dry
State	added, \$2 per M. for Hard, and \$3 per M. for Front	36 x 60 — 40 x 60 60 00 55 00 52 00 ———————————————————————	
Part	FRONTS.	An additional 10 per cent will be charged for all glass more than 40 inches wide. All sizes above 52 inches in	Vermilion, Trieste (gold)
Part	0 0 00	length, and not making more than 81 united inches, will be charged in the 84 united inches bracket	Chrome yellow, genuine, dry 12½@ 28 Orange Mineral English, gold 11½@ 11½
Section Comparison Compar	Croton — Red	cent.	Putty, pure
1		Sizes. 1st. 2d. 3d. 4th.	Duty 20 per cent, ad val, on calcined; lump, free.
Bosenshale	and \$6 on Baltimore.		Nova Scotia, white
Security films	Posendale 19 bbl \$1 10 @ \$1 20	10 x 16 - 14 x 26 12 50	Calcined, Eastern and city bbl. 1 25 @ 1 50 Calcined, city easting 2 00 @ 2 25
Security	Portland	120 X 30 - 24 X 30 13 (0 10 (0 13 00	
Second 1	Keene's coarse	26 x 36 - 26 x 44 22 75 20 25 15 50	Purple roofing slate, Square. \$7 50 @ \$8 00 Green slate 7 50 @ 8 00
Schole	FIRE BRICK.	30 x 52 - 30 x 54 27 25 24 00 18 75	Red slate
DOODS, RINSPIP PARIES, PARIE	Scotch 40 00 @ \$45 00	34 x 58 - 34 x 60 31 50 29 50 25 00	Peach bottom (nominally) 5 50 @ 6 00
DOORS, HAUSEN PARLES, TWO SIDES, 45 c. 56 d. 1 [l. in. 8 10 0 0 0 0 members of the property o		Above \$12 per box extra for every five inches.	Slate tiles, 14 in., rubbed, P sq. ft, delivered 20 @ 25
President Code 15	Doors, Raised Panels, Two Sides.	Also sold at 60 @ 60 and 5 from French list.	SOLDERS. No. 1
2.5 x 6.1.0 1.05 2.47	2.6 x 6.6	Per square foot, net cash.	No. 2@ 0 131
2.6 x 6.0	2.8 x 6.8 134 1 15 —	3-16 Fluted plate 30 34 Rough plate 1 00	I. C. charcoal, 10 x 14. 1 box (cur.) \$8 50 @ \$8 75
2.6 x 6.0	Size. 11/4 in. 11/2 in. 13/4 in.	13 Rough plate 40 1 Rough plate 1 30	I. X. charcoal, 10 x 14
2.6 x 6.10 1 08	2.6 x 6.6	FOREIGN WOODS. — Duty free.	
2.8 x 8.8. 2 00 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.6 x 6.10 1 96 2 47 —	Cuba	I. C. coke, terne, 14 x 20 7 00 @ 7 25 I. C. charcoal, terne, 14 x 20 7 50 @ 7 75
30 x 1-0 1.2 y 3 o 2 3 o 4 5 5 5 5 5 6 6 5 5 5	2.8 x 6.8 2 00 2 58 \$3 18	Mexican, large	ZINC Duty, sheet, P lb. 21/c.
Clarket Wishows Figh Lights & Lights Light	2.10 x 6.10 2 20 2 78 3 54	MAHOGANY.	LEAD.
St. Domings, logs, small	GLAZED WINDOWS.	good	Sheet 0 9
Class Logs Section Construction Class Logs Section Construction	sions of	St. Domingo, logs, small 0 7 @ 0 10	A decline of ¼ cent.
27 x 5.5	2.1 x 3.6 \$1.00 1.08 — — — — —	Cuba, logs, small	
27 x 5.5 1.67 1.74 1.95 1.93 2.08 2.16 2.31 2.40 Mondamas. Rosswoop. Ro	2.7 x 4.61.45 1.52 1.64 1.67 — 1.69 1.81	Frontera, Mexican, large	
2.7 & 5.0. 1.0 2.15 2.19 2.35 2.48 2.10 2.10 × 5.0. 1.06 1.89 2.00 × 2.17 1.00 × 5.00 2.00 × 2.31 2.35 2.35 2.35 2.10 × 5.0. 1.88 1.50 2.19 × 2.10 × 2.20 × 2.35 2.10 × 5.0. 1.88 1.50 2.19 × 2.10 × 2.20 × 2.35 2.10 × 5.0. 1.88 1.50 2.19 × 2.10 × 2.20 × 2.35 2.10 × 2.10 × 2.10 × 2.20 × 2.20 × 2.35 2.10 × 2.10 × 2.20 × 2.20 × 2.20 × 2.35 2.10 × 2.10 × 2.20 × 2.20 × 2.30 2.10 × 2.20 × 2.	2 7 x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31	Honduras 0 5 @ 0 9	Builders' Hardware.
2.0 x 5.2. 1.89 1.87 2.09 2.00 2.31 2.31 2.55 2.00 2.10 x 5.10 2.00 2.00 2.10 x 5.10 2.00 2	2.7 x 5.10 1.94 2.13 2.19 2.38 2.43 2.62	Rosewood. Rio Janeiro, ordinary to good D lb. 0 21/2@ 0 31/2	10d \$3 1
2. 20 x 5.10. 2.09 2.18 2.92 2.31 2.55 2.58 2.59 common counted checked, plowed and borned for weights. e means counted checked, plowed and borned for weights. Per lineal foot, put 6.21 wide. \$ 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.10 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53	Bahia, ordinary to good 0 21/200 0 31/4	801 4 7
No. Hot. H	2.10 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82	Honduras 0 4 @ 0 5	2 in., Pennsylvania make \$1 2
Der lineal foot, up to 3.1 wide.	weights.	Tulipwood	SASH WEIGHTS
Per lineal foot, up to 3.4 wide.	OUTSIDE BLINDS.	Lignumvitæ, large	Best hemp 300
Per lineal foot, \$4 folds, \$4 hotels, Pine. \$0 of 50 pt. \$0	Per lineal foot, up to 2.10 wide	LUMBER. Pina vary choice and extra dry DM ft \$60,00@ \$70,00	DOOR BUTTS.
Per lineal foot, 4 folds, Pine	Per lineal foot, painted and trimmed 0 40 @ 0 50	Pine, shipping box	Japanned Acorn \$4 00 \$5 00 19 doz, pair
Per lineal foot, 4 folds, Sash or Chesthut — @ 0 90 Per lineal foot, 4 folds, Black Walnut — @ 1 20 Per lineal foot, 4 folds, Black Walnut — @ 1 20 Per lineal foot, 4 folds, Black Walnut — @ 1 20 Per lineal foot, 4 folds, Black Walnut — @ 1 20 Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds, Black Walnut — @ 2 cf Per lineal foot, 4 folds — @ 2 cf Per lineal foot, 4	Par lineal foot 4 folds Pine @ 0.55	Pine, common box	Plain Bronzed Iron 80 92 47 pair. Ornamental Bronzed Iron, 1 50 1 75 47 pair.
Pine, faily boards, dressed, good. 236	Per lineal foot, 4 folds, Ash or Chestnut — @ 0 95 Per lineal foot, 4 folds, Cherry or Butternut— @ 1 10	Pine, tally plank, 1¼, 10in., dres'd each 40@ 43 Pine, tally plank, 1¼, 2d quality 35@ 38	MORTISE LOCKS — Brass face and bolt — eas
Up to 3.4 x 7.2, put togethers.	Per lineal foot, 4 folds, Black Walnut — @ 1 20 Window Frames.	Pine, tally planks, 14, culls	
Pline, strip boards, merchantable Pline, strip boards, desced Pline, strip boards, desced Pline, strip boards, dessed 25:60 23 25:60 23 25:60 24 25:60	Up to 3.4 x 7.2, put together	Pine, tally boards, triessed, common. 23@ 24	Factory make, plain front
LIME	HAIR.—Duty free. Cattle	1 Pine, strip poards, merchantable 17(a) 20	Factory make, bronze front 5 50 each
Spruce wall strips. 90		Spruce boards, dressed, clear 35(2) 38 Spruce boards, dressed	DOOR KNORS IN Se
Hemlock joist, 2\(\frac{1}{2}\) x 4 15\(\tilde{0}\) 18 Hemlock joist, 3\(\frac{1}{2}\) x 4 15\(\tilde{0}\) 15\(\til	State, common, cargo rate	Spruce plank, 154 in. dressed	Silvered glass.
Hemlock joist, 2\(\frac{1}{2}\) x 4 15\(\tilde{0}\) 18 Hemlock joist, 3\(\frac{1}{2}\) x 4 15\(\tilde{0}\) 15\(\til	Rockland, common 90 @ 90	Spruce wall strips	Nickel plated
GLASS. Duty. — Window, Polished Cylinder, and Crown, not buty. — Window, Polished Cylinder, and Crown, not cyrif ox 15in., 24/c. \$\psi\$ aft.; larger, and not over 16 x 15in., 24/c. \$\psi\$ aft.; larger, and not over 16 x 15in., 24/c. \$\psi\$ aft.; larger, and not over 24 x 30; in. 6c. \$\psi\$ above that, and not over 24 x 30; in. 6c. \$\psi\$ above that, and not over 24 x 30; in. 6c. \$\psi\$ above that, and not over 6 x 24, 2c.; \$\psi\$ by 15 ft.; larger, and not over 16 x 24; 2c.; \$\psi\$ by 15 ft.; larger, and not over 24 x 30; in. 6c. \$\psi\$ conditions are considered as a second of the constant boards, \$\psi\$ in. \$\psi\$ 000 \\ \[\text{Displayer} \text{ ft.} \text{ and not over 24 x 30; 2\frac{1}{2}c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 16 x 24; 2c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\frac{1}{2}c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\frac{1}{2}c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\psi\$ by 15 ft.; larger, and not over 24 x 30; 2\psi c.; all over that, 3c. \$\	Fround 90 @ 1 00	Hemlock joist, 2½ x 4	CACII DACTO IN Dogo
C 2 lin., 4c. \$\psi\$ 8c. ft.; larger, and not over 24 x 30 in, 6c. \$\psi\$ 8c. ft.; all above that, and not exceeding 24 x 60 in, 20c. \$\psi\$ 8c. ft.; all above that, 40 ct. \$\psi\$ 8c. ft. (bestnut boards, lin. 45 00 55 00 55 00 25 00 55 00 25 0	GLASS.	Hemlock joist, 4 x 6	Plain brass, self-locking
98, ft.; above that, and not exceeding 24 x 60in, 20c. Section 1, 20c. Section 1, 20c. Section 2, 20c. Section 2, 20c. Section 2, 20c. Section 3, 20c. Section 2, 20c. Section 3, 20c. Section	Duty. — Window, Polished Cylinder, and Crown, not over 10 x 15in., 21/cc. P sq. ft.; larger, and not over 16	Cak	Bronze metal, self-locking 5 00 to 12
10 x 15 ml., sq., 1½e.; over that, and not over 16 x 2‡, 2e.;	x 24in., 4c. y sq. ft.; larger, and not over 24 x 30in, 6c. y sq. ft.; above that, and not exceeding 24 x 60in., 20c.	Chestnut boards 1in 45 000 55 00	Round head, nickel plated \$2 25 \$2 90
FRENCH WINDOW. List of March 1, 1876. SINGLE THICK—per box of 50ft. Sizes. 1 st. 2d. 3d. 4th. X 8 - 7 x 9. \$11 00 \$10 50 \$10 00 \$9 50 Whitewood, chair plank 60 000 38 000 Whitewood, inch. 38 000 50 00 Whitewoo	Cylinder, Crown, and Common Window, not exceeding	Cypress, 1, 1½, 2, and 2½in	STORE DOOR HANDLES - with mortise latch
FRENCH WINDOW. List of March 1, 1876. SINGLE THICK—per box of 50ft. Sizes. 1 2 d. 3d. 4th. Whitewood, chair plank. 8 7 x 9 \$11 00 \$10 50 \$10 00 \$9 50 Whitewood, ½ib	over that, and not over 24 x 30, 21/2c.; all over that, 3c.	Black Walnut, %	Lacquered brass
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	FRENCH WINDOW. List of March 1, 1876.	Black Walnut counters	Bronze metal 7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Sizes. 1st. 2d. 3d. 4th.	Whitewood, chair plank	TOSCHI'S ENGRAVINGS. From Fresch by Corneggio and Parmegiano. Reproduced by t
20 x 32 - 20 x 30 18 00 16 50 14 50 13 50 Shingles, clear sawed pine, 18in	x 8 — 7 x 9\$11 00 \$10 50 \$10 00 \$9 50 15 x 10 — 10 x 15 12 00 11 00 10 50 10 00	Whitewood, % in	Heliotype Process from the "Gray Collection of Engraings," Harvard University.
20 x 32 - 20 x 30 18 00 16 50 14 50 13 50 Shingles, clear sawed pine, 18in	16 x 14 — 12 x 16 13 50 12 50 11 50 10 75 16 x 18 — 14 x 24 14 00 13 00 12 00 11 25	Shingles, extra shaved pine, 18in. M 9 50@ 10 00 Shingles, extra shaved pine, 16in 8 50@ 9 50	This volume contains twenty-four Plates, including Pamegiano's Saint Agatha, Saint Lucia, and Saint Apollon Two Descope and Saint Course of Company of Properties
21 x 30 - 15 x 38. 19 50 18 00 16 00 — Shingles, cypress, 20 x 6	18 x 24 — 15 x 32 17 00 16 00 14 00 13 00 20 x 32 — 20 x 30 18 00 16 50 14 50 13 50	Shingles, extra sawed pine, 18in 7 00@ 8 00 Shingles, clear sawed pine, 18in 6 50@ 7 50	includes the Madonna della Scala, Diana in a Chariot, T Coronation of the Virgin, groups of Cherubs and Ange
24 x 36 - 24 x 40, 23 00 20 50 18 00 — Yellow pine dressed flooring P M ft. 35 00@ 45 00 T TENA DDIS DECODATION AND ODN	21 x 30 — 15 x 38 19 50	Shingles, cypress, 24 x 7	A rare and valuable collection. Quarto. Price, \$10.00. JAMES R. OSGOOD & CO., Bosto
24 x 42 - 28 x 42 25 50 22 50 20 50 — Yellow pine girders	24 x 36 — 24 x 40 23 00 20 50 18 00 —— 24 x 42 — 28 x 42 25 50 22 50 20 50 ——	Yellow pine dressed flooring	LIENARD'S DECORATION AND ORNA
24 x 42 - 28 x 42. 25 50 22 50 20 50 Yellow pine girders. 30 00 40 00 20 x 46 - 30 x 48 . 26 50 23 50 22 00 Locust posts, 8ft. Pin. 18 20 20 20 20 20 20 20 20 20 20 20 20 20	26 x 46 - 30 x 48 26 50 23 50 22 00	Locust posts, 8ft	namentation of the Nineteenth Century. By LIENAE Reproduced by the Heliotype Process. Upwards of 1
32 x 54 - 34 x 56 29 00 27 00 24 00 — Locust posts, 12ft	32 x 54 — 34 x 56 29 00 27 00 24 00 — 34 x 58 — 34 x 60 31 50 29 00 26 00 —	Chestnut posts	LIENARD'S DECORATION AND ORNA namentation of the Sheetenston and O namentation of the Sheetenston Century. By Lienar Reproduced by the Heliotype Process. Upwards of I designs, rich in hints to Architects and Decorators. vs. folio, boards, \$27.00. Half moreco. cloth sides. \$30.00.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash. For Insane Hospitals, Fire Proof Buildings, &c.



res perfect security with e a prison-like appearant hiters and medical supe

D. M. MEEKER & SON.

Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver, and Composition; also Patterns a specialty.



HEADQUARTERS PARLOR

> GRATES. THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



PROTECT

YOUR HOUSES

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our atrons:

We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to furfil the following conditions, provided the trap is kept in running order:—

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur. Ad, No swer gas will escape from the drain or pipe, or any offensive smelt arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive treating, and the contractions are the contractions.

L. S. MOORE & CO.,

40 Oliver Street, Boston.



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and

Tile, Land Tile. American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Br Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Classics." \$1 00 each.

ENGLAND-Vol. I. (Aldborough - Furness Abbey.)
Vol. II. (Giastonbury-Nottingham.) Vol. III (Oakley-Tynemouth.)

Tynemouth.)

"We can conceive of no series so charming, when completed, as this, or one which promises to become so popular."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE.

THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the popular Little Classic "HAWTHORNE. With Index of Subjects n the entire series. §1.25.

EFF Each of the twenty-three volumes contains a new

"Vignetto Illustration.

"We cannot sufficiently praise this splendid edition of

"We cannot sufficiently praise this splendid edition of

their artistic success with it, and it should be in every

library."—New Haves Journal and Courier.

ILLUSTRATED LIBRARY HAWTHORNE. FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Hustrations. 12mo. \$2. ume completes the Hustrated Library Edition of bicNE's WORKS, in 12 volumes, 12mo, each con-or Hustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING, By Dr. John Brown. Illustrated. Flexible cloth. 50 cts. A beautiful Pocket Edition of two of the most charming Stories in the Engitsh language. "Rab" and "Pet Mar-jorie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll.

Author of "Alice's Adventures in Wonderland," &c., with nine Hustrations by Henry Holiday. 1 vol., 32mo. 50 cents.

A cheap edition of a curious and entertaining little book, in which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujub. Snarks, Boojums, and other grotesque and amusing foks. The readers of "Alice's Adventurers" will need no second invitation to read "The Hunturg of the Snark."

. For sale by Booksellers. Sent, post-paid, on receipt of rice, by the Publishers.

JAMES R. OSGOOD & CO., Boston.

E. P. DUTTON & CO., No. 713 Broadway, New York. al Agents for J. R. O. & Co's. Publications.



National Fine Art Foundery,

218 East 25th Street, New York

Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our set re invited to confer with us.

STEAM HEATING. LE BOSQUET'S



The value of steam as a means of furnishing heat to dwellings and public buildings has become a recogn fact; and it needs only that its cost shall be brought withe reach of those of moderate means, to make it deserpopular. This cod we have reached with our littler however by any sacrifice in quality of material emple or workmanship, but by a simple combination of pwhereby we accomplish the desired object, securing ex coaty, is easy to effect, emirch in operation, aim cost. Farties who have a preference for this heating should examine this Boiler at our salest has been in practical operation in buildings an rently authenced the past winter; and its working has nently authenced by a surface of the same with a fine description of the Boiler, which will be any address upon application. Manufactured by

LE BOSQUET BROS.,

Haverhill, and 14 Bedford Street, Boston.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. 16mmo. \$1.50

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING an he shown looking much fresher than any other paint of

can be shown looking much fresher than any other paint of two years.
It emits no poisonous gas like other paints while drying, Its surface is a perfect enamel, from which any specks of dirt may easily be removed. It is unequalled for beauty, durability, and economy. OFFICE AND STORE 145 MILK STREET, BOSTON.

DISCOURSES ON ARCHITECTURE.—
By VIOLET LE-DUC. Translated, with an Introductory Essay, by HENRY VAN BERNT, Fellow American Institute of Architects. Fully Illustrated, 1 vol. royal 8vo. 48.00,
JAMES R. OSGOOD & CO., BOSTON.

Architects' and Engineers'

STATIONERY.

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS, WHICH INCLUDE

TRACING CLOTH,

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper, Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.





[ESTABLISHED 1844.]

PARLOR GRATES

H. M. CREAMER.

86 North Street, Boston Send for Price List. arties are living within fi-undred miles of Boston, all paytocall and examin

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

Fred. Reed,

E. Hixon, jun

UPS AND DOWNS ON LAND AND WATER. Oblong folio. \$10.00.

AND DOWNS ON LAND AND ATTER. Oblong folio. \$10.00.

ng over these pages is like gathering around a fireten to the bright and entertaining stories of a friend
travelled and kept his eyes well open. Only Mr.

— Boston Journal.

— Boston Journal.

AMES R. OSGOOD & CO., BOSTON.

A RT FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

** For raile by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.

59 Carmine St., New York.

CHURCH FURNITURE.

J. & R. LAMB,

Hustrated Catalogues Post Free.

Wood Work | M. tal & Stone Work | Banners & Decoration 10 cts. 10 cts.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com

FINE BRONZE HARDWARE

of the latest pattern

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings. 20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET.



ROETH & MAY. FURNITURE

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOCUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Book aupplied at publishers' prices, A. J. BICKNELL & CO., 27 WARREN STREET, NEW YORK

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

Boston.—Parsons & Torry
S Charlestown st; Allen & Nobl
Dock sq; Farless & Boynton,
Si Washington st; B L. Solo
Providence, R. 1.—Be
New York City.—A.
J. Filotton & Co. & Boystor,
J. Solomon & Sons, 609 Broadway
olomon & Sons, 609 Broadway
lubinger, 188 Grand st; C. A.
Brooklyn, (E. D.) N. Y
Albany.—Maurice E. Vi
Rochester.—Politock, W
Buffalo.—C. H. Utley, 82
Philadelphia.—Thoms
; Noblit, Brown, Noblit, & Co.
2d st; B L. Solomon & Son.
2d st; B L. Solomon & Son.

Cleveland, 2.— George Worthington & Co, 90 Water st; Win Bingham & Co, 188 Water st.
Cline-land at "Linescher & Kuhlman, 534 Main st; J. L.
Cline-land & "Linescher & Kuhlman, 534 Main st; J. L.
Chiengro. — J. L. Wayne & Son, 74 Handolph st; A. A. Ullrich
Co, 16 Fifth ave; J. Liebenstein & Co, 22 Randolph st.
Detroit. — Buhl, Ducharme, & Co, 108 Woodbridge street.
St. Louis. — Geo. A. Rubelmann & Co, 87 N. 6th st.
Washington. — F. P. May & Co, 6st Fenneywania evenue.
San Francisco. — B. J. Shaw & Co, 78 H. John st.
Chrebee, — S. J. Shaw & Co, 78 H. John st.
Hamilton, Ont. — Watson & Thompson, 16 McNab st.
Bay Our goods can be purchased of the above Agents at the
since prices and terms as of us.

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

S. P. TOLMAN & E. A. HUNTING,
BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents,
MORTCAGES NEGOTIATED. NO. II BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY JAMES R. OSGOOD & CO., WINTHROP SQUARE.....Boston.

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

			-		_						
	RAT	PES OF	AD	VE	RI	IS	IN	G.			
		e, and pa ite), or \$1									
	inch, one	e month								\$7.00	
		ree month									
		e months									
		year .									
On other	r pages,	10 cents	per	line	0 €	acl	a fi	ıseı	tic	on, or	\$1.40
	inch, one	month								\$5.60	
One	inch, thr	ee month	8 .							16.00	

Publishers' Department. Classified Advertisements.

The following is an alphabetical list of the advertise ments which appear in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special

AMERICAN ARCHITECT affords this to the speci
classes to whose interests it is devoted, and therefore
want which has been long felt is now filled. Adve
tisers will at once appreciate the excellence and co
venience of the arrangement.
ARCHITECTS' AND ENGINEERS' STATIONERY, &C.
Wadsworth Bros. & Howland, Boston
ARCHITECTURAL BOOKS.
A. J. Bicknell & Co., New York
ARCHITECTURAL IRON WORK.
Bartlett, Robbins, & Co., Baltimore, Md
ARCHITECTURAL SCHOOL.
Mass. Institute Technology, Boston
ARTIFICIAL WOOD ORNAMENTS.
W. B. Gleason & Co., Boston
Bricks.
Sayer & Fisher, Newark, N.J
BRONZE DECORATIONS.
National Fine Art Foundery, New York
BUILDERS AND REAL ESTATE IMPROVERS.
Tolman & Hunting, Boston
Builders' Hardware.
Burditt & Williams, Boston
BUILDERS IN IRON.
George Dwight, Jr. & Co., Springfield
BUILDING STONE.
Charles P. Williams, New York
CABINET FURNITURE AND UPHOLSTERY.
Edward Hixon & Co., Boston
CHURCH AND HALL ORGANS.
New England Organ Co., Boston
CHURCH FURNITURE.
J. & R. Lamb, New York.
Braman, Shaw, & Co., Boston
CHURCH ORGANS.
E. & G. G. Hook & Hastings, Boston
CONTRACTORS AND BUILDERS. W. H. Warren, Boston
W. H. Warren, Boston

CABINET FURNITURE AND UTHOLSTERY.
Edward Hixon & Co., Boston
CHURCH AND HALL ORGANS.
New England Organ Co., Boston
CHUBCH FURNITURE.
J. & R. Lamb, New York Braman, Shaw, & Co., Bostonv
CHUBCH ORGANS.
E. & G. G. Hook & Hastings, Boston i
CONTRACTORS AND BUILDERS.
W. H. Warren, Boston vi Mead, Mason, & Co., Boston vi C. H. Hall, Boston vi
DESIGNING AND WOOD ENGRAVING.
W. J. Dana, Boston i
DRAIN PIPE.
N. E. Drain Pipe Co. Boston
ELECTRIC BELLS, ANNUNCIATORS, &c.
S. W. Fuller, Boston
ELEVATORS.
Tufts' Elevator Works, Boston
ELEVATORS, STEAM ENGINES, &c.
Whittier Machine Co., Boston
FELT ROOFING.
N. E. Felt Roofing Co., Boston
FIDE ROICE AND CHIMNEY TORS

FIRE-PROOF BUILDINGS.

		_
	FURNITURE AND DECORATION.	1
	FURNITURE AND DECORATION. Roeth & May, Boston	Y
	Lawrence, Wilde, & Co., Boston	1
	FURNITURE, WOOD MANTLES, &c. C. J. Soyard, Boston	ii
	FRESCO PAINTERS. W. J. McPherson, Boston	ii
		ii
	L. Haberstroh, Boston	ii
	William S. Brazer, Boston	ii
	GAS FIXTURES.	.
	R. Hollings & Co., Boston	1
	S. A. Stetson & Co., Boston	û
	Archer & Pancoast Manuf. Co., New York	1
	al. W. I choo & Co., Dosion	1
	GAS MACHINES. Andrew G. Paul, Boston	ii
,	INTERIOR WOOD-WORK, DECORATIONS, &C.	
	Pottier & Stymus Manufacturing Co., New York. if	1
		1
	IRON CORNICES.	, 1
)	Smith & Van Noorden, Boston	1
	John H. Reed & Co., Boston	1
	IRON WORK FOR BUILDINGS.	1
	J. B. & J. M. Cornell, New York	
	LINEN HOSE.	1
		,
	Locks and Ornamental Bronze Hardware	1
	Yale Lock Manuf'g Co., Stamford, Conn vii	
	MARBLE FLOORING TILES.	1
		ii
	ORNAMENTAL AND CUT GLASS.	1
		i
	ORNAMENTAL BRONZES.	- 1
		1
	Mitchell, Vance & Co., New York	i
		i
	Asahel Wheeler, Boston i	V
	PAPER HANGINGS	
		ii
	PARLOR GRATES.	1
	H. M. Creamer, Boston	. 1
	PARLOR GRATES, BRASS FENDERS AND IRONS, &c.	1
	Murdock Parlor Grate Co., Boston iv	V-
	PLUMBERS' MATERIALS.	1
1	Hawthorne & Tucker, Boston	1
	PLUMBERS' SUPPLIES.	1
1	Jennings' Sanitary Depot, New Yorkvii	i
ı	ROOFING PLATES AND METALS.	
	Fuller, Dana, & Fitz, Boston	i
ı	SHUTTERS (ROLLING WOOD).	1
۱	Wilson & James, New Yorkvii	i
ı	SHUTTERS (STEEL).	1
١	Clark & Co., New Yorkvii Wilson & James, New Yorkvii	i
	wuson & James, New Yorkvii	
	SIGN AND ORNAMENTAL PAINTERS.	. 1

	Jennings' Sanitary Depot, New Yorkviii
i	ROOFING PLATES AND METALS.
	Fuller, Dana, & Fitz, Boston i
ii	SHUTTERS (ROLLING WOOD).
-	Wilson & James, New Yorkviii
v	SHUTTERS (STEEL).
1	Clark & Co., New Yorkviii Wilson & James, New Yorkviii
h	SIGN AND ORNAMENTAL PAINTERS.
iv	Warner Bailey, Boston ii
3.6	SKYLIGHTS.
¥	The Hayes Patent, New York
	SLATE MANTELS, &c.
V	J. W. Grigg, Bostonvii
	SLATE PAINT.
ii	New York Slate Paint Co., New York vii
	SPRING HINGES.
i	Am. Spring Butt Co., New York iv
	STAINED GLASS.
v	Falck & Schwabe, Boston
v	STEAM HEATING APPARATUS.

Le Bosquet Bros., Boston
STEAM PUMPS.
Geo. F. Blake Manufacturing Co., Boston.
STONE DRESSING WORKS.
George Brown, Newark, N.J

VENEERS.	27 2	00000	788			0 0	0.0	0.0			 0	0 0	
Palmer, Parker,	&	Co.,	Bostor	1 .	0 0			0 0	0	0 0			
VENTILATION.													
W. H. Kimball,	Bo	oston		**	* *	*	· ×	* ×	×				

L. S	Moore &	Co , Bo	ston		*****	*****	-
WOOD C	ARPETIN	G, &c.					
The	National	Wood	Manuf'g	Co	New	York	

The National Wood Manuf g Co., New York of the American Architects and builders of the country.

The Advertising columns of the American Architects and builders of the country.

The American Architects and builders of the country.

The National Wood Manuf g Co., New York of the American Architects and builders of the country.

The American Architects and builders of the country.

The National Wood Manuf g Co., New York of the pales of the wouldings will do well to address Architects through the advertising columns of the "American Architects and builders of the country."

The National Wood Manuf g Co., New York of the pales of the country.

The National Wood Manuf g Co., New York of the pales of the country.

Heliotype Art-Works.

James R. Osgood & Co. announce the following He-otype Art Works for November and December; each ontaining 24 full-page Heliotypes, with description etter-press, Large 4to. Tastefully bound. Price of ach \$10.00.

liotype Art Works for November assay, with descriptive containing 24 full-page Heliotypes, with descriptive feach, \$10.00.

I. Gems of the Dresden Gallery. II. Gems of the Gray Collections of Engravings at Harvard College. III. The Titian Gallery. IV. Gallery of Famous Artists. V. Gallery of Famous Beauties.

The large variety of their pictorial attractions, the number of eminent artists represented (many of them by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the engravings, not only in their general features but in their utmost detail and expression, make these volumes especially valuable to art-lovers; and the sumptuous extrem which the volumes are brought out will render them almost irresistible to those who delight in der them almost irresistible to those who delight in der them almost irresistible to those will have few volumes so attractive or so suitable for gifts.

A New Poem by Tennyson.

A New Poem by Tennyson.

James R. Osgood & Co. have arranged for the early publication of a new poem by Mr. Tennyson. Neither the length of the poem nor its subject can be stated at present; but the host of admirers of the Laurcate will not be solicitous about these points. They know that it cannot be too long, and that Mr. Tennyson touches no subject which he does not adorn. No more welcome literary announcement could be made than this. The date of publication cannot be named now, but the poem will appear simultaneously here and in London.

New "Vest-Pocket" Volumes.

New "Vest-Pocket" Volumes.

The charming miniature library of the "Vest-Pocket" Series will shortly be increased by the addition of three very different and very attractive brochures,—Mr. Emerson's longest essay on "Nature," and one of his most characteristic productions; Mr. James T. Fields's anecdotic and sympathetic article on Mr. Dickens, entitled "In and Out of Doors with Charles Dickens;" and Mr. Howells's amusing and graceful farce, "The Parlor Car." Fifty cents each.

Aldrich's New Volume.

Aldrich's New Volume.

T. B. Aldrich's new volume of poems, entitled "Flower and Thorn," is in press for early publication. It includes the poems he has written since 1865, those written before that date being comprised in "Cloth of Gold;" and, in addition to the charming pieces contributed to magazines, it contains several poems never before printed. In its notice of "Cloth of Gold," the London Athencum remarked,—
"It is some years since we have met with an American poet so rich in achievement and promise as Mr. Aldrich. . . . The author of this volume is an addition to that small band of American poets which is so slowly re-enforced."

The Independent accounted that volume "enough to the him a lasting reputation as one of the most eminent merican poets."

Illustrated Library Poets.

The Amesbury edition of Whittier's poems—an octavo volume, finely printed in double columns, with a red-line border, and containing thirty-two of the best illustrations yet made of his works—has proved so acceptable to the public that James R. Osgood & Co. have arranged to bring out in the same style the pectical works of Longfellow (not including the dramatic work "Christus"), Lowell, Tennyson, owen Meredith, and Whittier's "Songs of Three Centuries." Instead of giving these volumes separate names, it has been thought advisable to group them under the name of the Illustrated Library Edition. Their size, type, and style render them pecularly suitable for libraries; and the excellence of their contents entitles them to a place of honor in every intelligent household.

Am. Spring Butt Co., New York ivalence of the collection of stories, essays, and sketches by Miss Mary P. Thacher, to be published immediately in "Little Classic" style. The range and scope of the book can best be indicated by naming the contents, as follows: Old York; Water-Lities in Newport; The Know Peram Hearthno Apparatures.

Le Bosquet Bros., Boston. ivalence of the lunnecuts; Passenger Pigeons; One Hundred Years ago; About Splining-Wheels; Our Literary Club; The Misery of it; Fly-away; Some Little Folks who live in the Dark; Concern Brown, Newark, N.J. in Correggio. Several of these have appeared in magazines and literary journals; and their freshness and grace have gained many readers. The book is dedicated to Mr. Longfellow.

Palmer, Parker, & Co. Boston. viii

Poems of Places.

VENTILATION.

W. H. Kimball, Boston...

D. M. Mecker & Son's, Newark, N. J...

WELLINGTON'S PATENT WASH-BOWL.

L. S. Morre & Co. Boston...

Viii

This unique series grows steadly in number and in popular favor. England and Wales have been completed in four volumes; Ireland fills but one; Scotland, small as it is, is peculiarly rich in local poetry, and requires three volumes. France will come next, and the other countries of Continental Europe.

TO ARCHITECTS AND BUILDERS.

the

the

arly

Che

he

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by

Patent Slate Paint,

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this slate, be made to last from twenty to twenty-five years. Old roofs can be patched and coated, looking much better, and lasting longer than new shingles without the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the co of simply laying toem. The paint is FIRE PROOF again sparks or flying embers, as may be easily tested by any on

IT STOPS EVERY LEAK.

nd for fin or fron has no equal, as it expands by heat, co racts by cold, and NEVER CRACKS nor scales. Roofs co red with Tar Sheathing Felt can be made water-tight at mall expense, and preserved for many years, This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on thin, iron, felt, matched boards, or any smooth surface, from two quarts to one gallon are required to 100 square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition.

therefore it neither cracks in winter, nor runs in summer.
On decayed slingles it fills up the holes and pores, and
gives new, substantial roof that will last for years. CTREED
or WARPED shindles it brings to their places, and keep
them there. It fills up all holes in felt roofs, stops the leaks
and, although a slow dryer, rain does not affect it a few
hours after applying. As nearly all paints that are black
centain TAR, be are you obtain our GENTINE article, which
(for shingle roofs) is

CHOCOLATE COLOR,

when first applied, changing in about a month to a unifor slate color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate l'aint ever intro-duced, that will effectually prevent dampness from pene-trating and discoloring the plaster.

These paints are also largely used on outhouses and fences, or as a priming coat on fine building.

Our only colors are Chocolate, RED, BRIGHT RED, and ORANGE.

NEW YORK CASH PRICE-LIST.

3	gallons,	ean and box\$5.5	0
10	64	keg 9 5	Ö,
20	46	half barrel16 6	Ó
49	69	one barrel	

We have in stock, of our own manufacture, roofing materials, &c., at the following low prices: --

1000 rolls extra Rubber Roofing, at 3 cents per square foot Or we will furnish Rubber Roofing, Nails, Caps, and Slate alut, for an entire new roof, at 45, cents per square foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1% cents per square

c. 00 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

od: 200 rolls Tarred Sheathing, at % cent per square foot, 1000 barrels Shate Flour, per barrel, \$3.00. \$500 barrels Gration Mineral, per barrel, \$3.00. \$500 barrels Gration Mineral, per barrel, \$3.00. \$600 particles of the stander Faint, inixed ready for use, on \$600 particles work, at \$2.00 per gallon. Send for sample and of contested work, at \$2.00 per gallon. Send for sample

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unlesspress charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK.

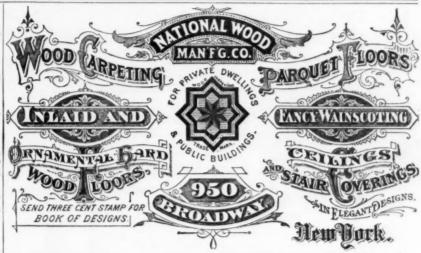
THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A and E. Varix. Reproduced by the Heliotype Process,
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to AmeriAn architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., Boston.

PAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. Emeric-David, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Proc. ss. The subjects represented are "The Visitation," "The Holy Family "(two groups), "The Madonna of the Fish," and "The Bearing of the Cross. "Quarto. Price, \$10.00.

JAMES R. ONGOOD & CO., BOSTON.

HOMES AND HOW TO MAKE THEM.
By E. C. GARDNER. Bustrated. 1 vol. square 12mo
JAMES R. OSGOOD & CO., BOSTON.



CHURCH AND LODGE The American Architect



FURNITURE

ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUFACTURERS OF FINE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES.

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble),

ROOFING SLATES, SLATE URINALS, **BLACKBOARDS**

FOR SCHOOLS, &c.

Parlor Grates, Frames, and Registers

JOSEPH W. GRIGG.

No. 59 Bromfield Street, Boston.

Springfield Gas Machine.

ANDREW G. PAUL,

An excellent advertising Medium for your purposes is the

and Building News.

THE PAPER FOR ARCHITECTS, BUILDERS, AND ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS.

EVERY SATURDAY.

BY JAMES R. OSGOOD & COMPANY,

WINTHROP SQUARE, BOSTON.

BRING devoted to the Architectural and Building interests of all sections of the country, it offers special induce-

AS AN ADVERTISING MEDIUM.

to Manufacturers and Dealers in Builders' Materials, as well as to Decorators and those engaged in the various branches of Interior Decoration, &c.

Each number contains editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art.

A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

of various Architectural Designs, accompanying ber, which are contributed by architects in different parts of the United States,

Another valuable feature is now added in the publication

PRICES OF BUILDING-MATERIALS.

the list being made up just before going to press each week. The publishers respectfully request the co-operation of those professional and business men, to whose interests !: is devoted, to add to the popularity and value of the "Architect," by contributing to its columns whatever may be deemed of interest to its readers.

The American Architect and Building News

Is for sale by all respectable newsdealers, and is mailed, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING.

Winthrop Square, Boston.

TO INTERIOR DECORATORS.

An excellent advertising Medium for your purposes is the AMERICAN ARCHITECT AND BUILDING NEWS.

MEDIÆVAL FOLIAGE. By J. K. Colling of the Lind. I vol. quarto. 76 plates and many woodcuts. These two volumes by Medium for your purposes is the AMERICAN ARCHITECT AND BUILDING NEWS.

MEDIÆVAL FOLIAGE. By J. K. Colling of the Lind. I vol. quarto. 76 plates and many woodcuts. These two volumes use of Foliage in Art, with a great number of designs illustrating the various modes in which foliage has been employed by Architects and Decorators in different ages and nations. In their department these volumes are univalled.

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof,

PRICE LIST.

WILSON & JAMES,
WILSON & JAMES,

68 Beekman Street, New State rights for patent Shutters for sale. Agents wanted.

WESTON'S

DIFFERENTIAL PULLEY BLOCKS,



DOYLE'S, HALL'S, AND BIRD'S,

THE YALE LOCK MANUFACTURING COMPANY, HENRY R. TOWNE, President,

STAMFORD, CONN.

Adapted for all hoisting purposes.

ESTABLISHED 1833.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT. BIRD'S EYE MAPLE. HUNGARIAN ASH. SATIN. TULIP. WHITE HOLLY. MAHOGANY. THUYA. ROSEWOOD, etc.,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CARINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.



JENNINGS' SPECIALTIES

IN ALL KINDS



JENNINGS' PATENT SIX. JOHNINGS' PATENT WATER CLOSELS, ENNINGS' PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

WE Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

THE NATIONAL ODE

Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

occasion on which this Ode was recited, the majestic and classical char-and the rare attractiveness of Mr. Taylor's penmanship which is repre-uence-uracy, give peculiar value to this volume as a suvenir of a memor-

** For sale by all Booksellers. Sent, post-paid, on receipt of price by the publishers.

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works



GARDEN STATUARY.

BUILDERS' HARDWARE.

Estimates given on all kinds of

Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILE STREET, BOSTON

DEALERS in Architects' and Builders' Supplies should advertise in the AMERICAN ARCHITECT

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, OFFICES ARAD, Late WESTON & RAND, (17 Pemberton Sq. Boston,) ARCHITECT, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., LOSTON.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR

WARKEN,
VASES,
NOS. 488 & 490 HARRISON AVENUE, BOSTOM.

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufacters of Stationary Wash Stands, 37 Haverhill St., Hoston, Posts, Rails, Bajusters, & Office Rails, furnished to order.

WALTER ARCHITECT.
DICKSON, Albany, N. T.



Franklin Press . Rand, Avery, & Co., Boston.

CHILD-LIFE IN PICTURES. Containing Wenty-four Hellotype Plates, from Correscore, Cor-Ler, Retrootos, Greezer, Lawrence, Merllo, Gerard, RAPHAEL, and other celebrated painters, --forming a series of charming pictures of children and child-life. Quario. Price, \$10.09. JAMES R. OSGOOD & CO., BOSTON.





them IUT-

NT

er.

k.

nd

īS,

ire

r,

17-01-

rs.

P. D. es



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 48.7

SATURDAY, NOVEMBER 25, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, 141 Centre Street, 427 Walnut Street, Roston. New York. Philadelphia.

LAWRENCE, WILDE, & CO.,

MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and ordered work a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it,
—Send for Circulars.—
ROBERT GEMS, Treas.—Selection, 339 Washington St.,
BOSFON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,
Quarryman, and Wholesale Dealer in
BUILDING STONE,
ONIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.

Sole Agent for

BERLIN STONE,
And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS, SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Bost

SAYER & FISHER. MANUPACTURERS OF LIGHT COLORED (Buff to White)

MARUPACTURESS OF LIGHT COLORED (Buff to White)
PRESSED FRONT BRICK.

MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.
Works at Sayerville, on Raritan River, N.J.,

Office, NEWARK, N.J.

MINTON'S ART AND ENAMELLED

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES. T. ASPINWALL, Sole Agent,

38 MURRAY STREET, NEW YORK

FOR SALE. — Complete set of "The Architect," London. Vols. 1 to 15, inclusive, in half morocco. Present year not bound. Price, \$60. Address Lock-Box President.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fire and water. The Hydraulic Line of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and aveigh sixty per cent less than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:

ceilings under wooden or iron beams, in the following buildings:
Western Union Telegraph, Del. and Hudson Canai Co., Equitable Life Assurance, Wil'mab gh Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Windsor Hotel, Syracuse Savings Bank, Columbia College, Windsor Hotel, Syracuse Savings Bank, Tribune, Peabody Museum. Insurance on Wooden Mansards reduced ninety cents per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Hollow Bricks of all kinds. Our Fire-Froot work is the only one approved by the Swe Work Board of Fire Hoderwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WARROOMS, No. 597 BROADWAY, NEW NEW YORK.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS.

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Trement Street, Boston.

Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.

CHARLES WHITTIER, Pres. JAMES STURGIS, Treas.

CHARLES WHITTIER, Pres.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING,
HEATING,
WORK, COT. PRAIT AND VENTILATING BY HOT WATER
A SPECIALITY.
Works, COT. Prait and Scott Sis.,
BALTINORE, MD.
Office 24 Light St.

Office 24 Light St., BALTIMORE, MD.

NEW YORK OFFICE, 68 Beekman Street.

JOHN H. REED & CO.

OHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in

Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig,
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Andle and T Iron, Boiler and Tank

Rivets, Lap-Welded Iron Boiler Tubes,

Wrought Iron Steam and Gas Pipe.
OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

TO BE OFERRATED RITHER BY STEAM OR WATER.

TO BE OFERRATED RITHER BY STEAM OR WATER.

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OFFICE, 243 Broadway, New York.

L. A. BIGELOW, Treas'r and Gen'l Manager.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

E. H. BRABROOK,

' 96 and 98 WASHINGTON ST., BOSTON.

FURFITURE & INTERIOR DECORATIONS,

MR. VICTOR CHARMOIS - Designer.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS,

As laid by us in THE CAPITOL AT WASHINGTON,

THE CAPITOL AT WASHINGTON,
And in numerous Churches, Banks, and Dwellings in every
part of the Country.

Glazed and Enamelled Tiles for Mantels, Hearths, Wain
scoting, &c., and for Exterior Decoration.

MILLER & COATES,
279 PEARL STEEET, NEW YORK.

ARCHER & PANCOAST MANUF. CO.,

A MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE.

67 Green St.; 68, 70, & 72 Wooster St., above Broome,

NEW YORK.

Broadway cars pass the door.

GAS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., 547 Washington St., BO TON.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 837 Harrison Avenue, Boston.

S. A. STETSON & CO., 173 Tremont St., S. Boaton, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
MILLS Solid WROUGHT IRON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 78,000 lbs.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER FIPE, LAND TILE. CHIMNEY TOPS, FUNEL STORES, &C. BERJ. NOYES, Agent.

CAPE ANN GRANITE COMPANY

GRANITE BUILDING FURNISH—ONUMENTAL WORK.
ALSO GRANITE FLACKING & PAYING BLOCKS,
SIMMONS BUILDING, 60 WATER ST. BOSTON.
QUARTIES: BAY VIEW, GLOUCESTER, MASS.
JONAS H. FRENCE, PAGE
SCOTT WERBER, Supt.

GEO. F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTOK.

BUILDERS' SUPPLIES.

HAWTHORNE & TUCKER,

PLUMBERS.

PROVINCE STREET, BOSTON.

Estimates for Plumbing made, and work done in any part of the United States or Provinces.

MOSES MELLEN & CO. 16 Bromfield

ENAMELLED SLATE MANTELS AND SHELVES, PARLOB GRATES, ENGLISH FLOOR AND WALI TILES.

M. W. PEIRCE & CO.,

STEAM, GAS, AND KEROSENE FIXTURES,

117 AND 119 COCET STREET,

BOSTON.

Lowest Estimates for furnishing Private and Public Buildings and Churches.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

MONS. C. J. SOYARD, formerly 12 West MANTELS, AND ALL FIRST-CLASS CABINET WORK OF EVERY DESCRIPTION. 2 "A" BEACON STREET WART TERMONT. BOSTON.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
284 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

J. GARTISSER, (ESTABLISHED 1858).
ORNAMENTAL, EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RAILROAD CARS,
OFFICES, &c., No. 268 West 14th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Trement Street. Boston.

FOR MARBLE FLOORING TILES,

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
No. 9 HAMILTON PLACE,
Opp. Park-Street Church,
BOSTON.

WARNER BAILEY, Sign and Ornamental

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction.

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to Fine-I'moor Constructorion; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

PROPOSALS.

BRIDGE. — Notice is hereby given that a contract will be let for furnishing the material and performing the labor necessary for the erection of a Covered Bridge, with Stone Abutments, across Salt Creek, near Schulz's Mill, in Eagle Township, Vinton County, Ohio, on Saturday, Dec. 2, 1876, at 2 o'clock, P.M., of said day, at public nurtion, upon the Bridge site above named. The stone-work and superstructure to be let under separate contracts. Length of span to be 180 feet. The Commissioners reserve the right to reject any or all bids. By order of Board of Commissioners.

J. T. FOREMAN, Auditor Vinton Co.

GRADING. — Sealed proposals for grading Wisconsin street in the Second and Third Wards of the city of Janesville, Wis., in accordance with an order of the Mar'or and Common Council or said city, dated Oct. 31, 1876, and in accordance with the grade catablished by said Common Council on the twenty-escond day of July, 1876, and now on file in my office, will be received at the office of the city clerk, in as a city, until the twenty-dist day of November, 1876, at 7.30 r.M. Each proposal must be accompanied by a good and sufficient bond for the performance of the work in accordance with said grades so on file, with at least one survey to be approved by said Common Council. Each proposal to be a closed in an envelope, and Indorsed, "Proposal for Graung Wisconain Street."

E. L. DIMOCK, City Clerk.

SCHOOL HOUSE.—Sealed proposals will be received by the School Trustees of the Twent-fourth Ward, at the Hall of the Board of Education, corner of Grand and Elm Streets, New York, until Tuesday, the 28th day of November, 1876, and until 4 o'clock P. M. on said day, for altering and enlarging Grammar School No. 63, on 3d Avenue, near 173d Street.

Plans and a specifications may be seen, and blanks for proposals obtained, at the office of the Superintendent of School Buildings, No. 146 Grand Street, third floor.

Proposals must state the estimate for each branch of the work separately, and be indorsed "Proposal for Massing Work," "Proposal for Carpenter Work," "Proposal for Painting."

Work, "Proposal for Carpenter wors," Proposal for Painting,"
Two responsible and approved sureties, residents of this City, will be required from each successful bidder.
The parties submitting a proposal and the parties proposaling to become sureties rugate each write his name and place of residence on said proposal. the right to reject any or all of the proposal submitted.
MARK K. HAMILTON, Jun., FRANKLIN EDSON, JAMES C. HULL, GEORGE H. MOLLER, FERDINAND MEYER, Board of School Trustees, Twenty-fourth Ward.

MEYER, Board of School Trustees, Twenty-fourth Ward.

CITY HALL. — Sealed Proposals for furnishing certain materials for the New City Hall Building will be received by the Board of New City Hall Building will be received by the Board of New City Hall Commissioners of the city and county of San Francisco. In the room of the Board of Supervisors, between the hours of 12 february of the Composal and bonds will be furnished to intending bidders. The materials to be furnished at such periods as may be required by the Superintendent, the whole to be furnished on or before the right of each of supervisors. But the office of any portion of same, not less in quantity more dor or say portion of same, not less in quantity the superintendent, the whole to be furnished on or before the option of accepting any such bid either for the whole quantity offered or sany portion of same, not less in quantity the superintendent in the bid. No bids will be entertained unless made on blanks to be furnished by the Secretary of the Board, and accompanied by a bond with two or more good such as the contract by the party to whom it may be awarded. The bids must be indorsed for the work proposed to be done, and dressed to the Board of New City Hall Commissioners and be delivered to said Board whilst it is in session, and dressed to the Board of New City Hall commissioners and be delivered to said Board whilst it is in session, and county of San Francisco.

GEO. W. THOMAS, Secretary.

GAS SUPPLY. — Sealed proposals will be more considered, F.M., Saturday, Dec. 2, 1876, to supply the county of May, 1878, with a directance of the City Comproller, and county of May, 1878, with a directance of the City Comproller, and county of May, 1878, with a directance of the City Comproller, and county of May, 1878, with a directance of the City Comproller, and county of May, 1878, with a directance of the City Comproller, and county of May, 1878, with a directance of the City Comproller, and county of May, 1878, with a directance of the City Comproller, a

GAS SUPPLY. — Sealed proposals will be one o'clock, F.M., Saturday, Dec. 2, 1876, to supply the city of Quincy for a term of twenty-five years, from the 16th city of Quincy for a term of twenty-five years, from the 16th city of Quincy for a term of twenty-five years, from the 16th can, both for public and private consumption, the party contracting to have the exclusive right of supplying a 1 gas to be used in the city, public and private consumption, the party contracting to have the exclusive right of supplying a 1 gas to be used in the city, public and private consumption is about 30,000 feet every twenty-four hours. The public lamps must be kept burning from twilight in the evening till dawn of day in the morning. The blds should state the price for gas supply, and also the price for lighting, cleaning, and keeping in repair the street lamps, and also the price per 1,000 feet to be paid by private conficient bend in the sum of \$10,000, to be forfeited in case the party should fail to enter into contract after the acceptance of the bid by the authorities of the city of Quincy. By order of the City Council.

FRED REARICK,

HAVE for many years given their exclusive attention to Fire-Proof Construction; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF S. The only floors that have stood fire in this country.

FIRE-PROOF FLOORS. The only floors that have stood fire in this country.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF CONSTRUCTION: In the words of the best-known architects of this country, "Minimum of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of one of the best-known architects of this country, "Minimum of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country, "Minimum of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of one of the best-known architects of this country, "Minimum of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country, "Minimum of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of one of the best-known architects of this country, "Minimum of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF LAIH. In the words of metal, maxister the fire. Saved the city of Springfield last year.

FIRE-PROOF CONSTRUCTION: All bids must mame the persons interested in said bid, and be accompanied with a guaranty, in the sum of five hundred distruction for the parts of the saved the city of the parts of the saved the city of the parts of the pa

PROPOSALS.

CITY HALL. — Sealed proposals for the iron and accessory work, required for completing portion of the exterior of the Hall of Becords, as shown and described on the drawings and in the specifications, will be received by the Board of New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the City and County New City Hall Commissioners for the Secretary, where ferms of proposals and specification to the Secretary, where ferms of proposals and boads will be furnished to intending bidders. The whole of the work to be completed within the time fixed in the specification, to wit: The fron and accessory work within nine weeks, from the date on which the contracts are ready for signatures. No bids will be entertained unless made on blanks furnished by the Secretary of the Board, and accompanied by a bond with two or more good and sufficient sureties in a sun equal to ten per cent of the total sum of the tender, conditioned for the due entering into the contract by the party to whom it may be awarded. The bids may be indorsed for the work proposed to be done, and addressed to the Board of New City Hall Commissioners, and to be delivered to the Board whilst it is in session, and within the hours above named. The Board reserves the right to reject any and all bids. Payments to be made monthly, in gold and silver coin, of seventy-five per cent of the estimated amounts due, and the party of the party of the New City Hall Commissioners for the City and County of San Francisco.

GEO. W. THOMAS, Secretary.

STEEL WIRE.—Proposals will be received up to Dec. 1, 1-76, by the Trustees of the New York and Brooklyn Bridge, at their office, 21 Water Street, Brooklyn, N.Y., for the manufacture and delivery of 3,466 net tons of No. 8 gaivanized steel cable wire, to be used in the contraction of the main cables of the East River Suspension Bridge. Printed specifications, containing full information. -truction of the main selections, containing run manager.

Bri ge. Printed specifications, containing run manager.

W. A. ROEBLING, Chief Engineer.

MASS. INSTITUTE OF TECHNOLOGY. ATA This school offers a four-years' scientific and professional training for Chemists, Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original design.

Special students in Architecture are

gn.
ecial students in Architecture are received into a twos' special course.

years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars andress William R. Ware, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary.

Boston, Feb. 1, 1876.

and private consumption, the party be exclusive right of snuplying a 1 gas public and private, during the term. The present requirements are a sups, and the average demand for private 30,000 feet every twenty-four hours, the kept burning from twilight in or of day in the morning. The blas for gas supply, and also the price for it keeping in repair the street lamps, 1,000 feet to be paid by private contained the acceptance of \$10,000, to be forfeited in case the rinto contract after the acceptance therities of the city of Quincy. By net.!

FRED REARICK,

Comptroller of City of Quincy, III.

Those who read the book through carefully, by the help

BUILDING MATERIALS.	6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50	PAINTS AND OILS. Chalk 15 \$0 001/4@ \$0 001/4
LATEST NEW YORK QUOTATIONS.	8 x 10 - 10 x 15, 21 00 19 50 18 50 17 50 11 x 14 - 12 x 16, 23 00 21 00 20 00 18 50	Chalk
Nov. 24, 1876.	15 x 24 — 15 x 32 30 00	Zinc, white, American, dry 6 ¹ / ₂ @ 7 ¹ / ₂ Zinc, white, American, in oil, pure. 11 ¹ / ₂ @ 12
BRICK. Cargo Afloat. Pale	22 x 30 - 13 x 35, 34 00 32 00 23 00	Lead, white, American, dry 9 (2) 9 10 10 10 10 10 10 10 10 10 10 10 10 10
Pale.	24 x 36 — 24 x 40 40 00 36 00 32 00 — 24 x 42 — 28 x 42 44 50 40 00 36 00 —	Lead, red, American 8 @ 81
Up-River	26 x 46 - 30 x 48 46 50 42 00 38 00 - 30 x 50 - 32 x 52 48 50 44 50 40 00	Ochre, French, dry (gold) — @ 1 50 Ochre, in oil (currency) 6 @ 15
Haverstraw Bay, choice	01 X 00 - 01 X 00 00 00 00 00 00 00 00	Venetian red, English (gold) P cwt 1 85 @ 2 00 Spanish brown, dry
added, \$2 per M. for Hard, and \$3 per M. for Front Brick.	36 x 60 — 40 x 60 60 00 55 00 52 00 ———————————————————————	Spanish brown, in oil
FRONTS.	An additional 10 per cent will be charged for all glass more than 40 inches wide. All sizes above 52 inches in	Vermilion, Trieste (gold)
Croton — Brown	length, and not making more than 81 united inches, will be charged in the 84 united inches bracket	Orange Mineral English, gold 121/20 28
Croton - Dark	Discount to the trade, 50 and 10 @ 50 and 10 and 5 per cent.	Paris green, pure, dry
	AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th.	PLASTER PARIS.
For delivery, add \$5 on Philadelphia and Trenton, and \$6 on Baltimore.	6 x 8 - 10 x 15\$10 75 \$9 75 \$9 00 \$8 25 11 x 14 - 12 x 13 11 50 10 25 9 75 8 75	Duty. — 20 per cent. ad val. on calcined; lump, free. Nova Scotia, white
CEMENT. Rosendale	10 x 16 - 14 x 26 12 50 11 50 10 25 9 00 18 x 22 13 25 12 00 10 75 9 50 26 x 26 - 20 x 30 15 75 14 00 12 00 10 25	Nova Scotia, blue
9 05 (a) 9 50	25 x 30 — 24 x 30 19 75 16 75 13 50 ——	Calcined, city casting
FORMAIN	21 x 28 - 24 x 36 20 25	SLATE. Delivered at New York Purple roofing slate,
FIRE BRICK.	28 x 44 — 30 x 50 24 00 21 50 16 75 — 30 x 52 — 30 x 54 27 25 24 00 18 75 —	Green slate
Red Welsh\$40 00 @ Scotch\$40 00 @ \$45 00	30 x 56 — 34 x 56 29 50 25 25 22 00 —— 34 x 58 — 34 x 60 31 59 29 59 25 00 ——	City) D D0 (a) 0 00
American	36 x 60 - 40 x 60 37 00 32 50 29 50 — Above \$12 per box extra for every five inches.	Peach bottom (nominally) 9 00 @ 10 00 Slate tiles, 1½in., rubbed, ‡9 sq. ft.
Doors, Raised Panels, Two Sides.	Discount, 70 @ 75 per cent. Also sold at 60 @ 60 and 5 from French list.	SOLDERS.
2.0 x 6.0	GREENHOUSE, SKYLIGHT, AND FLOOR GLASS. Per square foot, net cash.	No. 1
2.6 x 6.8	½ Fluted plate \$0 22 ½ Rough plate \$0 65 3-16 Fluted plate 30 ¾ Rough plate 1 00 ½ Fluted plate 40 ½ Rough plate 1 15 ½ Rough plate 1 15 ¼ Rough plate 1 30 ¾ Rough plate 1 2 1 30 ¾ Rough plate 1 2 1 30 ¾ Rough plate 1 2 1 30	TIN PLATES. — Duty, 1 1-10c. 17 fb. I. C. charcoal, 10 x 14. 17 box (cur.) \$8 50 @ \$8 75
Doors, Moulded. Size. 1½ in. 1½ in. 1½ in.	1 Fluted plate 40 % Rough plate 1 15 Rough plate 1 30 Rough plate 1 30	I. C. coke, 10 x by 14
2.0 x 6.0 \$1.52 2.6 x 6.6 1 87 \$2 38	Rough plate 50 1 1/2 Rough plate 1 80 FOREIGN WOODS. — Duty free.	I. C. charcoal, 14 x 20. 9 25 @ 9 50 I. X. charcoal, 14 x 20. 11 75 @ 12 00
2.6 x 6.8	Cuba CEDAR.	I. C. coke, 14 x 20
2.6 x 7.0 2 01 2 68 ——————————————————————————————————	Mexican small 0 6 (a) 0 8	1. C. charcoal, terne, 14 x 20 7 50 @ 7 75
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mexican, large	ZINC.—Duty, sheet, \$\mathbb{P}\$ \$\mathbb{B}\$. 2\frac{1}{4}c. Sheet (gold)\mathbb{P}\$ \$\mathbb{B}\$b. \$\\$0 08\frac{1}{2}\$ @ \$\\$0 09
3.0 x 7.0 2 30 3 92 3 74 GLAZED WINDOWS.	St. Domingo, crotches, ordinary to	LEAD. Bar 0 83
Dimen- 12 Lights. 8 Lights. 4 Lights.	good	Sheet
windows. 1½pl. 1½cc. 1½cc. 1½cc. 1½cc. 1½cc. 1½cc.	St. Domingo, logs, large 0 15 @ 0 25	A decline of % cent. Discount 10 per cent to trade.
2.1 x 3.6\$1.00 1.08	Cuba, logs, large	IRON. Duty. — Bar, 1 to 14c, 10 th; Railroad, 70c. 10 100th
2.7 x 4.101 56 1.61 1 77 1.80 — 2.02 2.15	Other Mexican 0 6 @ 0 10	Duty.—Bar, 1 to 1½c. P h; Railroad, 70c. P 100h Boiler and Plate, 1½c. P h; Sheet, Band, Hoop an Scrool, 1½ to 1½c. P h; Pig. 87 V ton: Polished Sheet Sc. P h; Galvanized, 2½c. P h; Scrap Cast, §6 V ton Scrap Wrought, §8 P ton.—all less 10 per cent. No Ba Iron to pay a less duty than 35 per cent ad val. Pig. Sorth Coltroys
27 x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31 2.7 x 5.6— 1.84 2.02 2.08 2.26 2.31 2.49 2.7 x 5.10— 1.94 2.13 2.19 2.38 2.43 2.62	Rosewood. 0 5 @ 0 9	3c. Ph; Galvanized, 2½c. Ph; Scrap Cast, \$6 P ton Scrap Wrought, \$8 P ton—all less 10 per cent. No Ba
2.10 x 4.6 1.59	Rio Janeiro, ordinary to good 1 lb. 0 21/2@ 0 31/2 Rio Janeiro, good to fine 0 4 @ 0 6	Iron to pay a less duty than 35 per cent ad val. Pig, Scotch, Coltness
2.10 x 5.61.88 1.96 2.19 2.16 2.39 2.42 2.65 2.10 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82	Bahla, ordinary to good	Pig, Scotch, Coltness
ce means counted checked, plowed and bored for weights.	Honduras	
Hot-Bed Sash, Glazed	Lignumvitæ, small,	Pig, American, No. 2 20 00@ 21 00 Pig, American, Forge 19 00@ 20 00
Per lineal foot, up to 2.10 wide	LATH. — Cargo rate	Pig, American, Forge 19 00@ 20 00 Bar, refined, English and American @ Bar, Swedes, assorted sizes (gold) — @ 100 00 Store prices, cash
Per lineal foot, up to 3.1 wide	LUMBER. Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 00	Bar, Swedes, ordinary size s 130 00 a 132 50
Per lineal foot, painted and trimmed 0 40 @ 0 50 Inside Blinds.	Pine, good. 45 00@ 53 00 Pine, shipping box. 18 00@ 22 00 Pine, common box. 16 00@ 18 00	Bar, refined, 1 to 2 in. rd. & sq1 to 6
Per lineal foot, 4 folds, Pine	Pine, common box, \(\frac{1}{2} \) = 13 50@ 15 50 Pine, tally plank, 114, 10in, dres'd each 30@ 38 Pine, tally plank, 114, 2d quality. 33@ 38 Pine, tally planks, 134, culls. 25@ 28 Pine, tally boards, dressed, good. 31@ 33 33@ 33	in. x ½ to lin
Per lineal foot, 4 folds, Ash or Chestnut @ 0 95 Per lineal foot, 4 folds, Cherry or Butternut @ 1 10 Per lineal foot, 4 folds, Black Walnut @ 1 20	Pine, tally plank, 13, 2d quality 35@ 38 Pine, tally planks, 13, culls 25@ 28	Large rounds, 21/ & 27/
WINDOW FRAMES.	Pine, fally boards, dressed, common 2000 21	Scroll
Up to 3.4 x 7.2, put together — @ 2 65 HAIR. — Duty free.	Pine, tally boards, culls	Horseshoe 3 9-10@
Cattle	Pine, strip boards, clear 25 28	Rods, % to 3-16in
LIME.	Spruce boards, dressed	Sheet, Russia, as to assortment (gold). 11½ @ 11½ Sheet, singles, doubles, and trebles,
State, common, cargo rate		Sheet, doubles and trebles, charcoal 5 @ 51
Rockland, common	Spruce timber	Sheet, galvanizedList 35@ 45 per cent di Rails, American (currency)38 00@ 42 00
Ground 90 @ 1 00 Add 25 c. to above figures for yard rates.	Hemlock joist, 2½ x 4	NAILS Down 10 c. per keg, and now quoted o
GLASS. Duty. — Window, Polished Cylinder, and Crown, not	Ash, good	a basis of \$3.00 per keg for 10d. to 60d., with an add tional allowance of 10 c, per keg for invoices of 100 keg
over $10 \times 15 \text{in.}, 24\%$. $47 \times 10^{-3} \text{ft.}$; larger, and not over $16 \times 24 \text{in.}$, $4c$, $47 \times 10^{-3} \text{ft.}$; larger, and not over $24 \times 30 \text{in.}$, $6c$, $47 \times 10^{-3} \text{ft.}$; above that, and not exceeding $24 \times 60 \text{in.}$, $20c$,	Maple 25 00(a) 59 00	or more.
\$\text{isq. ft.; all above that, 40 ct. \$\text{isq. ft. Un Unpolished}	Chestnut boards, 1in. 45 00@ 55 00 Chestnut plank 45 00@ 60 00 Cypress, 1, 1½, 2, and 2½in. 35 00@ 40 00	MIE PACHAY WADVEN
Cylinder, Crown, and Common Window, not exceeding 10 x 15in., sq., 1 %c.; over that, and not over 16 x 24, 2c.;	Cypress, 1, 1½, 2, and 2½in. 35 00@ 40 00 Black Walnut, good. 80 00@ 100 00 Black Walnut, % 75 00@ 85 00	THE BOSTON MARKET. Nov. 24, 1876.
over that, and not over 24 x 30, 21/4e.; all over that, 3c.	Rigck Walnut, selected and seasoned 110 00 70 150 00	NAILS. Builders' Hardware.
FRENCH WINDOW. List of March 1, 1876. SINGLE THICK — per box of 50ft.	Black Walnut counters \$\mathcal{P}\$ ft. 18\$\alpha\$ 35 Cherry, good \$\mathcal{P}\$ M ft. 60 00\alpha\$ 80 00 Whitewood, chair plank 60 00\alpha\$ 70 00	10d
Sizes. 1st. 2d. 3d. 4th. x 8 - 7 x 9\$11 00 \$10 50 \$10 00 \$9 50	Whitewood, inch	AXLE PULLEYS—Steel. 29 Doz
15 x 10 - 10 x 15 12 00 11 00 10 50 10 00 16 x 14 - 12 x 16 13 50 12 50 11 50 10 75		AXLE PULLEYS—Steel.
16 x 18 — 14 x 24 14 00 13 00 12 00 11 25 18 x 24 — 15 x 32 17 00 16 00 14 00 13 00	Shingles, extra shaved pine, 16in 8 50/a 9 50 Shingles, extra sawed pine, 18in 7 00/a 8 00	SASH WEIGHTS 11/20
20 x 32 — 20 x 30 18 00 16 50 14 50 13 50	Shingles, clear sawed pine, 18in	SASH LINE.
21 x 30 — 15 x 38 19 50	Shingles, clear sawed pine, 18in. 6 50 2 7 50 Shingles, cypress, 24 x 7 20 00 20 20 0 Shingles, cypress, 20 x 6 12 00 2 15 00 Yellow pine dressed flooring. ▶ M ft. 35 00 2 45 00	DOOR BUTTS.
24 x 46 — 24 x 49 25 00 22 50 20 50 — 26 x 46 — 30 x 48 26 50 23 50 22 00 —		Size - 43 x 43 5 x 5
20 x 40 - 30 x 48 26 50 23 50 22 00	Locust posts, 10ft	Plain Bronzed Iron 60 92 47 pair. Ornamental Bronzed Iron, 1 50 1 75 47 pair. Ornamental Bronze Metal, 3 60 4 00 47 pair.
31 x 58 - 34 x 60 31 50 29 00 26 00 — 36 x 60 - 40 x 60 35 00 32 00 29 00 —	Chestrut posts	Ornamental Bronze Metal, 3 60 4 00 \$\rightarrow\$ pair. [CONTINUED ON NEXT PAGE.]
	Cango raice to per cent. on.	[COALLAGED OF REAL PAULS]

THE BOSTON MARKET-Continued.

Builders' Hardware.
MORTISE LOCKS - Brass face and bolt - easy
spring. \$\frac{31}{2}\text{ to 41}{4} in
Factory make, plain front \$3 25 each.
Factory make, bronze front 5 50 each.
Boston make, plain front 8 00 each.
DOOR KNOBS. P Set.
Solid glass \$ 50
Silvered glass

for window beads,
STORE DOOR HANDLES — with mortine la

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash

For Insane Hospitals, Fire Proof Buildings, &c.



D. M. MEEKER & SON.

Newark, N.J.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water, BY USING

Wellington's Patent Wash-Bowl.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our atrons:

we hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that partice interested may select, without expense to them, immediately on their failure to fulfil the following conditions, provided the trap is kept in running order:

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-howis, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No sewer gas will escape from the drain or pipe, or any offensive succi arise from them.

4th. These bowls will remain free and clear from any accumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address

L. S. MOORE & CO., 40 Oliver Street, Boston



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement. LIME, SAND, &c

WALDO BROTHERS,

ENGRAVINGS FROM LANDSEER, produced in Heliotype, with a Sketch of the Life an Works of the Aftist. Twenty-four Plates, reproducing will the utmost fidelity some of the most famous of Landseer Works, including "The Challenge," "Chillingham ReDeer," "The King of the Forest, "The Monarch of the Gien," tight Life," Low Life, "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty g the Bay Mare," and others of Price, \$16.00.

JAMES R. OSGOOD & CO., BOSTON.

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Classics." \$1.00 each

ENGLAND-Vol. I. (Aldborough - Furness Abbey. Fol. II. (Glastonbury-Nottingham.) Vol. III. (Oakley-Tynemouth.)

Tynemouth.)

"We can conceive of no series so charming, when completed, as this, or one which promises to become so popular."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE.

THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the Little Classic" HAWTHORNE. With Index of Subjects the entire series. \$1.25.

"Little Classic" HAWTHORNE. With Index of Subjects in the entire series. \$1.25.

Each of the twenty-three volumes contains a new Vignette Illustration.

"We cannot sufficiently praise this splendid edition of Hawthorne. The publishers are to be congratulated on their artistic success with it, and it should be in every library."—New Haven Journal and Courier.

ILLUSTRATED LIBRARY HAWTHORNE.

FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Illustrations. 12mo. \$2.

This volume completes the Illustrated Library Edition of HAWTHORNE'S WORKS, in 12 volumes, 12mo, each containing two Illustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING By Dr. John Brown. Illustrated. Flexible cloth. 50 cts A beautiful Pocket Edition of two of the most charming stories in the English language. "Rab" and "Pet Mar-orie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll. Author of "Alice's Adventures in Wonderland," &c., with nine Illustrations by Henry Holiday. 1 vol., 32mo. 50 cents.

A cheap edition of a curious and entertaining little book, a which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujub, Snarks, toojams, and other grotesque and amusing folks. The enders of Alock Adventures will need no second invitation to read. The Hunting of the Snark.

. For sale by Booksellers. Sent, post-paid, on receipt or

JAMES R. OSGOOD & CO., Boston. E. P. DUTTON & CO., No. 713 Broadway, New York secial Agents for J. R. O. & Co's. Publications.



National Fine Art Foundery,

218 East 25th Street, New York, Artistic Bronze Decoration for Buildings Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects. Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our art are invited to confer with us.



HEADOUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates.

BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices

MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston.

Springfield Gas Machine.

ANDREW C. PAUL,

119 Court Street, Boston.

TO INTERIOR DECORATORS.

An excellent advertising Medium for your purposes is the AMERICAN ARCHITECT AND BUILDING NEWS.

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING an be shown looking much fresher than any other paint of

cars. mits no poisonous gas like other prints while drying, rface is a perfect enamel, from which any specks of ay easily be removed. irt may easily be removed. It is unequalled for beauty, durability, and economy. OFFICE AND STORE 145 MILK STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Correct and Parmediano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings." Harvard University.

This volume contains twenty-four Plates, including Parmediano's Saint Agatha, Saint Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Charriot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, 810 00.

JAMES R. OSGOOD & CO., Bostos.

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE

TRACING CLOTH, TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper, English and French Crayon Paper,

Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.



R

25

IS.

JE





PARLOR GRATES

H. M. CREAMER,

86 North Street, Boston Send for Price List. parties are living within fix hundred miles of Boston. will paytocall and examin

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Therough Workmanship.

180 Washington St., (New No. 364.)

BOSTON.

E. Ilixon,

Fred. Reed,

E. Hixon, jun

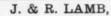
UPS AND DOWNS ON LAND AND WATER. Oblong folio. \$10.00
"Turning over these pages is ilke gathering around a fire-side listen to the bright and entertaining stories of a friend who has been and kept his eyes well open. Only Mr. Hoppin's pencil is made kept his eyes well open. Only Mr. Button Journes." Button Journey and withy than most men's who has travelies the legislation of the Hoppin's penelt is more elequent and with the Hoppin's penelt is more elequent and with the longues."—Boston Journal.

JAMES R. OSGOOD & CO., Boston.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

. For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTON.



59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively Polished Brass and Sterling Silver.

Hustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decoration 10 cts. | 10 cts. |

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns

nze and Bross Hardware manufactured to order from chitects' drawings. 20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WAREHAM STREET.



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Bo pplied at publishers' prices,

A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

W. J. McPHERSON & CO.

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

A G E N T S.

Hoston.—Parsons & Torry, 636 Washingon et; Fitkin Bros. 25 Charlestown et; Allen & Noble, 94 Hanover et; Bogman & Vinal, 7 Dock sq. Faries & Bogmon, 13 Cornhill; Gardner & Chaudier, 1321 Washington et; B. L. Solomon & Sons, 40 Franklin street.

Providence, R. I. — Belicher Bros. 27 Weybosset et.

New York City.—A. Hanmacher & Co. 209 Bowery; L. L. W. Work City.—A. Hanmacher & Co. 209 Bowery; L. L. W. Work City.—A. Hanmacher & Co. 209 Bowery; L. Constant of the Constant of the

Circulars mailed on application to

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

P. TOLMAN & E. A. HUNTING,
BENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTIGAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAME	S R.	OSGOO	D	&	CO.,
WINTHROP	SQUARE				BOSTON

A JOUENAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

DATED OF A	w	V.E	Tr.	P. Ti	21	MAG	Ex.			
On the first page, and page										
cents per line (agate), or \$1.7	5	per	iı	ach	1 (1	ou	rte	en	lines) one
insertion.										
One inch, one month .									\$7.00	
One inch, three months					0				20.00	
One inch, nine months.									58.00	
One inch, one year										
On other pages, 10 cents pe										\$1,40
per inch.										
One inch, one month .									\$5.60	
One inch, three months										
One inch, nine months									46.00	
One inch, one year										
No extra charge for cuts, or										cuny
more than one column in wid			-	- 00						13

Publishers' Department.

Classified Advertisements.

The following is an alphabetical list of the advertise ments which appear in this number of the American Architect and Building News. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to cata-logues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once appreciate the excellence and con-

venience of the arrangement.
ABCHITECTS' AND ENGINEERS' STATIONERY, &c.
Wadsworth Bros. & Howland, Boston
ARCHITECTURAL BOOKS.
A. J. Bicknell & Co., New York
ARCHITECTURAL IRON WORK.
Bartlett, Robbins, & Co., Baltimore, Md ARCHITECTURAL SCHOOL.
Mass Institute Technology Roston

Mass. Histitute Technology, Doston	11
ARTIFICIAL WOOD ORNAMENTS.	
W. B. Gleason & Co., Boston	V
Bricks.	
Sayer & Fisher, Newark, N.J	1
BRONZE DECORATIONS.	
National Fine Art Foundery, New York	iv
BUILDERS AND REAL ESTATE IMPROVERS.	
Tolman & Hunting, Boston	V

BUILDERS IN IRON.
George Dwight, Jr. & Co., Springfield
BUILDING STONE.
Charles P. Williams, New York

ng. Boston . . .

BUILDERS' HARDWARE Burditt & Willis

CABINET FURNITURE AND UPHOLSTERY.
Edward Hixon & Co., Boston
CHURCH AND HALL ORGANS.
New England Organ Co., Boston
CHURCH FURNITURE.

Church Organs.	
E. & G. G. Hook & Hastings, Boston	
CONTRACTORS AND BUILDERS.	
W. H. Warren, Boston	¥

Mand Mason & Co Douton
Mead, Mason, & Co., Boston
C. H. Hall, Boston
DESIGNING AND WOOD ENGRAVING.
W. J. Dana, Boston
DRAIN PIPE.
N. E. Drain Pipe Co. Boston

Waldo Brothers, Boston
ELECTRIC BELLS, ANNUNCIATORS, &c.
S. W. Fuller, Boston

ELEVATORS				
Tufts' E	levator V	Vorks,	Bost	on
ELEVATORS	, STEAM	ENGL	NES,	&c.

Kilds V.	AIORS,	STEAM	ENGI	NES,	ac.
W	hittier	Machine	Co.,	Bosto	n
FELT	ROOF	NG.			

N. E. Felt Roofing Co., Boston
FIRE-BRICK AND CHIMNEY-TOPS.
Waldo Brothers Boston

	D		
FIRE-PROOF	BUILDINGS.		

Fire-Proo	f	Building	Co.,	New	York	

FURNITURE AND DECORATION.
E. H. Brabrook
Roeth & May, Boston
Lawrence, Wilde, & Co., Boston
FURNITURE, WOOD MANTLES, &c. C. J. Soyard, Boston
FRESCO PAINTERS.

П	W. J. McPherson, Boston
4	Philip A. Butler, Boston
	Wallburg & Sherry, Boston
	L. Haberstroh, Boston
- 1	William S. Brazer, Boston
1	GAS FIXTURES.
1	R. Hollings & Co., Boston

R. Holli	ngs & Co	Bost	on					 	
Mitchell	. Vance,	& Co.,	New	York				 	
S. A. St	etson & (Jo., Bo	ston.					 	
Archer	& Pancos	st Mai	nuf. C	0. Ne	W	Yo	rk		
M. W. I	eirce & (o., Bo	ston					 	
AR MEARIN									

elli e	GAS MACHINES, Andrew G. Paul, Boston	vi
e	Pottier & Stymus Manufacturing Co., New York.	ii
	IRON BRIDGES.	

King Iron Bridge and Manu'f. Co., Cleveland, O
IRON CORNICES.
Smith & Van Noorden, Boston

IRON MERCHANTS.	
John H. Reed & Co.,	Boston
IRON WORK FOR BUILD	INGS.
Y TO 0 Y 98 (2 12	31 Yr 1

	27 . 3.7	OF U. Mile	Corner	29 7464	A TOTAL			
T.TN	KEN I	Iose						
RALE.	A PAGE	LUSE,						
	Now	England	Timon	Hose	Manufig	Co	Rocton	
	74CM	England	Lanch	11056	manni B	COM	DOSTOIL.	

LOCKS AND ORNAMENTAL BRONZE HARDWARE	
Yale Lock Manuf'g Co., Stamford, Conn	1
MARBLE FLOORING TILES.	
George Barney, Swanton, Vt	

ORNAMENTAL AND CUT GLASS.
J. Cartisser, New York
ORNAMENTAL BRONZES.
Mitchell Vance & Co., New York

ORNAMENTAL BRONZES.	
Mitchell, Vance & Co., New Archer & Pancoast Manuf'g.	
ORNAMENTAL IRON WORKS.	

1	ORNAMENTAL IRON WORKS.	
	Bubier & Co., Boston Bartlett, Robbins & Co., Baltimore	. 8
1	PAINT.	
١,	Asahel Wheeler, Boston	

FAPER HANGINGS.	
H. B. Jones & Co., Boston	ii
PARLOR GRATES.	
H. M. Creamer, Boston	v
PARLOR GRATES, BRASS FENDERS AND IRONS, &c.	
Murdock Parlor Grate Co., Boston	iv

Plumbers.	
Hawthorne & Tucker, Boston	0
PLUMBERS' SUPPLIES.	
Jennings' Sanitary Depot, New York	

ROOFING PLATES AND METALS.	
Fuller, Dana, & Fitz, Boston i	
SHUTTERS (ROLLING WOOD).	
Wilson & James, New Yorkviii	
SHUTTERS (STEEL).	

DEF C	T TORRES	COLD	Entre la						
C	lark d	& Co.,	New	Yor	k				
14	Vilson	& Ja	mes,	New	Yor	k			
SIGN	AND	ORNA	MEN	TAL	PAI	NT	EE	2.5	

SIGN	AN	D ORN	AMENT	AL P.	AINTERS	
V	Vari	ner Ba	iley, Bo	ston.		
SKYI	IGI	ITS.				
717	ha	Harras	Datont	NOW	Vork	

Smith & Van Noorden, Boston	
SLATE MANTELS, &c.	
J. W. Grigg, Boston	
Moses Mellen & Co.,	
SLATE PAINT.	

PRING	HINGES.	
	Spring Butt Co., New York	
TAINE	GLASS.	
Fale	k & Schwabe, Boston	
W.	I. McPherson & Co. Boston	

W. J. McFherson & Co., Boston	. 4
Chas. Booth, Orange, N.J	0
TEAM HEATING APPARATUS.	
Le Bosquet Bros., Boston	
TEAM PUMPS.	

1	T. Aspinwall, Ne														
I	C. A. Wellington,	Boston.	0	0 0	0 0	0 0	0	0	0	0 1	9	. 1	 		
I	VENEERS.														

Palmer, Parker,	& Co., Boston viii
VENTILATION.	
W. H. Kimball,	Boston ii
WINDOW SASHES.	

WINDOW SASHES.
D. M. Meeker & Son's, Newark, N.J
WELLINGTON'S PATENT WASH-BOWL

Woo	D C	CARPETING	G, &c.				
7	The	National	Wood	Manuf'g	Co.,	New	York

The advertising columns of the AMERICAN ARCHITECT AND BUILDING NEWS are used as a DIRECTORY by the architects and builders of the country. Our patrons receive numerous orders from the cards which they insert, and from parties whom they would not otherwise reach. Specimen copies of the paper are sent free,

Heliotype Art-Works

Heliotype Art-Works

James R. Osgood & Co. announce the following Heliotype Art Works for November and December; each containing 24 full-page Heliotypes, with descriptive letter-press. Large 4to. Tastefully bound. Price of each, \$10.00.

I. Gems of the Dresden Gallery. H. Gems of the Gray Collections of Engravings at Harvard College. HI. The Titian Gallery. IV. Gallery of Famous Artists. V. Gallery of Famous Beauties.

The large variety of their pictorial attractions, the number of eminent artists represented (many of them by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the engravings, not only in their general features but in their utmost detail and expression, make these volumes especially valuable to art-lovers; and the sumptuous style in which the volumes are brought out will render them almost irresistible to those who delight in beautiful books. The holiday season will have few volumes so attractive or so suitable for gifts.

A New Poem by Tennyson.

A New Poem by Tennyson.

James R. Osgood & Co. have arranged for the early publication of a new poem by Mr. Tennyson. Neither the length of the poem nor its subject can be stated at present; but the host of admirers of the Laureate will not be solicitous about these points. They know that it cannot be too long, and that Mr. Tennyson touches no subject which he does not adorn. No more welcome literary announcement could be made than this. The date of publication cannot be named now, but the poem will appear simultaneously here and in London.

New "Vest-Pocket" Volumes.

New "Vest-Pocket" Volumes.

... viii
Series will shortly be increased by the addition of three very different and very attractive brochures,—Mr.

Emerson's longest essay on "Nature," and one of his most characteristic productions; Mr. James T. Fields's ij ancdotic and sympathetic article on Mr. Dickens, entitled "In and Out of Doors with Charles Dickens;" and Mr. Howells's amusing and graceful farce, "The it Parlor Car." Fifty cents each.

Aldrich's New Volume.

T. B. Aldrich's new volume of poems, entitled "Flower and Thorn," is in press for early publication. It includes the poems he has written since 1855, those written before that date being comprised in "Cloth of Gold;" and, in addition to the charming pieces contributed to magazines, it contains several poems never before printed. In its notice of "Cloth of Gold," the London Atheneum remarked,—
"It is some years since we have met with an American poet so rich in achievement and promise as Mr. Aldrich. . . . The author of this volume is an addition to that small band of American poets which is so slowly re-enforced."

The Internativat accounted that volume "enough to

The Independent accounted that volume "enough to give him a fasting reputation as one of the most eminent American poets."

Illustrated Library Poets.

Boston i Hlustrated Library Poets.

The Amesbury edition of Whittier's poems — an octavo volume, finely printed in double columns, with a red-line border, and containing thirty-two of the best in the same style the poets a ceeptable to the public that James R. Osgood & Co. have arranged to bring out in the same style the poets and works of Longfellow (not including the dramatic work "Christus"), Lowell, Tennyson, Owen Meredith, and Whittier's "Songs of Three Centuries." Instead of giving these volumes separate names, it has been to give the style the poets of the content of the same style the poets. The content of the public that James R. Osgood & Co. have arranged to bring out in the same style the poets. It work "Christus"), Lowell, Tennyson, Owen Meredith, and Whittier's "Songs of Three Centuries." Instead of giving these volumes separate names, it has been to give the content of the contents of the contents of the carellence of their contents entitles them to a place of honor in every intelligent household.

"Seashore and Prairie,"

"Seashore and Prairie,"

New York Slate Paint Co., New York.

SPRING HINGES.

Am. Spring Butt Co., New York.

STAINED GLASS.

Falck & Schwabe, Boston.

W. J. McPherson & Co., Boston.

STEAM HEATING APPARATUS.

Le Bosquet Bros., Boston.

STEAM PUMPS.

Geo. F. Blake Manufacturing Co., Boston.

STONE DRESSING WORKS.

George Brown, Newark, N.J.

"Store Dressing Works.

George Brown, Newark, N.J.

"Seashore and Prairie,"

is the title of a collection of stories, essays, and sketches by Miss Mary P. Thacher, to be published immediately in "Little Classic" etyle. The charge and property in "Little Classic" etyle. The contents, as follows: Old York; Water-Lilies in Newport; The Knox Pumps, and Contents, Passing Race; The Massacre of the Innocents; Passing Race; The Massacre of the In

This unique series grows steadily in number and in popular favor. England and Wales have been completed in four volumes; Ireland fills but one; Scotland, small as it is, is peculiarly rich in local poetry, and requires three volumes. France will come next, and the other countries of Continental Europe.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address. Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

The

led ica-

Mr.

an ith

hes ely the

rk

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by using our

Patent Slate Paint,

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this slate, be made to last from twenty to twenty-five years. Old roofs can be patched and coated, looking much better, and lasting longer than new shingles without the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the of simply laying them. The paint is first-proof agai sparks or flying embers, as may be easily tested by any of

IT STOPS EVERY LEAK.

nd for tin or iron has no equal, as it expands by heat, con racts by cold, and NEVER CRACKS nor scales. Roofs covered with Tar Sheathing Felt can be made water-tight at mail expense, and preserved for many years. This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on th, iron, felt, matched boards, or any smooth surface, from two quarts to one gallon are required to 100 square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition.

therefore it neither cracks in winter, nor runs in summer.
On decayed shingles it fills up the holes and pores, an gives a new, substantial roof that will last for years. Cutak:
or WABFED shingles it brings to their places, and keep them there. It fills up all holes in felt roofs, stops the leaks and, although a slow dryer, rain does not affect it a few hours after applying. As nearly all paints that are black contain TAR, be arre you obtain our GENTINE article, which (for shingle roofs) is

CHOCOLATE COLOR.

when first applied, changing in about a month to a unifor slate color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate Paint ever introduced, that will effectually prevent dampness from penetrating and discoloring the plaster.
These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.
Our only colors are Chocolate, Red, Bright Red, and Orange.

NEW YORK CASH PRICE-LIST.

5	gallons,	can and box\$5 5	50
10	56	keg 9 5	θ
20	66	half barrel16 0	10
40	66	one barrel30 0	

We have in stock, of our own manufacture, roofing materials, &c., at the following low prices: —

1000 rolls extra Rubber Roofing, at 3 cents per square foot. Or we will furnish Rubber Roofing, Nails, Caps, and Slate Paint, for an entire new roof, at 44; cents per square foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1% cents per square foot.

foot. 3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

foot rolls Tarred Sheathing, at % cent per square foot.
200 rolls Tarred Sheathing, at % cent per square foot.
100 barrels State Four, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$3.00.
5000 gallons fine Enamel Pant, mixed ready for use, on
Inside or outside work, at \$2.00 per gallon. Send for sample
card of colors.

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unless express charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN. Reproduced by the Heliotype Process.
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque sawell as convenient.

JAMES R. OSGOOD & CO., Boston.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of Francuced in This volume contains twenty-four Flates, reproduced in the contains and the contains the contai

CHURCH AND LODGE The American Architect



FURNITURE.

ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUFACTURERS OF FINE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES,

WHICH COMPRISE

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble).

ROOFING SLATES. SLATE URINALS, **BLACKBOARDS** FOR SCHOOLS, &c.

Parlor Grates, Frames, and Registers ALWAYS ON HAND

JOSEPH W. GRIGG,

No. 59 Bromfield Street, Boston.

"ZODTCHY" (BUILDER). A JOURNAL OF ARCHITECTURE, FINE ARTS, AND

ENGINEERING. Published, since 1872, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

Each number contains from Eight to Sixteen pages of letterpress, gr. quarto, with cuts, and at least FIVE autographic chromo-lithographic plates, the titles in both Russian and French.

PROSPECTUS.

PROSPECTUS.

The "Zodtch" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Advoad, Notices of the Construction of different Buildings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &c., the Biography of Russian and Distinguished Foreign Architectur, the Discussion of Building Laws, Critical Analysis of Architectural and Artistic Publications. The "Zodtcht" publishes a Werkly Styfflement Called "Leaves of the Zodtchty," which contains the current Building News, Public Competitions, Exhibitions, Proceedings of Architectural Societies, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisements, &c.

Subscription Price for Europe and the United States, \$12.59 per Annum.

Price for Advertisements: One Line, each insertion, 8 cta.

For important Advertisements, a Discount of ten to thirty Per cent.
The "ZODTCHY" exchanges with all Architectural and Technical Journals.
Address,
JOURNAL "ZODTCHY,"

18 OFFICER STREET, ST. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE, BOSTON,
Receive Subscriptions for the "ZODTCHY" for the United
States.

and Building News.

THE PAPER FOR ARCHITECTS, BUILDERS, AND ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS,

BY IAMES R. OSGOOD & COMPANY.

WINTHROP SQUARE, BOSTON.

BEING devoted to the Architectural and Building inter-sts of all sections of the country, it offers special induceests of all sections of the ments,

AS AN ADVERTISING MEDIUM,

to Manufacturers and Dealers in Builders' Materials, as well as to Decorators and those engaged in the various branches of Interior Decoration, &c. Each number contains editorial and contributed articles on the topics which principally inserest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices including the whole subject of interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art.

A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

of various Architectural Designs, accompanying each number, which are contributed by architects in different parts of the United States.

Another valuable feature is now added in the publication of the

PRICES OF BUILDING-MATERIALS,

the list being made up just before going to press each week the list being made up just before going to press each week.
The publishers respectfully request the co-operation of
those professional and business men, to whose interests it is
devoted, to add to the popularity and value of the "ArchiTract," by contributing to its columns whatever may be
deemed of interest to its readers.

8

The American Architect and Building News

Is for sale by all respectable newsdealers, and is mailed, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING,

Winthrop Square, Boston.

POTTIER & STYMUS

MANUFACTURISM

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.
LEXINGTON AVENUE, 41ST AND 42D STREETS,
NEW YORK.

*** REVIEW,

NORTH AMERICAN REVIEW, OCTOBER, 1876.

ART. I. THE SOUTHERN QUESTION. WILLIAM HENRY TRESCOT.

11. THE WHISKEY RING. H. V. BOYNTON.

111. YON HOLST'S HISTORY OF THE UNITED STATES. HERRY ADAMS and H. C. LODGE IV. AN MENT. The Shattering of the Tweed "Ring."

V. THE "INDEPENDENTS" IN THE CANVASS. VI. CRITICAL NOTICES.

\$1 50 a Number; Yearly Subscription, \$6 00. Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & Co., BOSTON.

MEDIÆVAL FOLIAGE. By J. K. ColStates.

MEDIÆVAL FOLIAGE.

MEDIÆVAL FO

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof,

PRICE LIST.

68 Beekman Street, New

State rights for patent Shutters for sale. Agents wanted.

WESTON'S

DIFFERENTIAL PULLEY BLOCKS.



DOYLE'S, HALL'S, AND BIRD'S,

THE YALE LOCK MANUFACTURING COMPANY, HENRY R. TOWNE, President,

STAMFORD, CONN.

Adapted for all hoisting purposes.

ESTABLISHED 1833.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

TULIP, FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, ROSEWOOD, etc., WHITE HOLLY, MAHOGANY, THUYA,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

suitable for CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters,

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbourne



SEWERGASSHUTOFF!





JENNINGS' SPECIALTIES

IN ALL KINDS

PLUMBERS' SUPPLIES

JENNINGS' PATENT SIX. Jennings' Patent Water Closets, envings 'PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES.

Also Tiles for Furniture, Decoration, and Bathroom Linings. Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Mar Manufacturer of Fine Furniture, and Importer of rare Etchings and Engravings.

No. 170 Tremont St., Boston.

THE NATIONAL ODE

Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

The historic occasion on which this Ode was recited, the majestic and classical character of the Ode, and the rare attractiveness of Mr. Taylor's penmanship which is reproduced with absolute accuracy, give peculiar value to this volume as a suverir of a memo-** For sale by all Booksellers. Sent, post-paid, on receipt of price by the publishers.

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works

WROUGHT AND CAST IRON



For Building IRON AND WIRE RAILING,

IRON CRESTINGS. IRON STABLE FIXTURES, FOUNTAINS.

GARDEN STATUARY,

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue.

BUBIER & COMPANY,

118 MILE STREET, BOSTON.

DEALERS in Architects' and Builders' Supplies should advertise in the AMERICAN ARCHITECT

ARCHITECTS.

OFFICES OF FRANK W. WESTON,

Late Weston & RAND, (17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.
BOSTON.

ARCHITECT. PERRY BUILDING. WALTER DICKSON.

CONTRACTORS & BUILDERS

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord. N. H. Offices. 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and
Public Buildings a specialty. Estimates given.

Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac.
turer of Stationary Wash Standa, 37 Haverhill St., Boston. Posts, Rails, Baiusters, & Office Rails, furnished to order



Franklin Press . Rand, Avery, & Co., Boston.

CHILD-LIFE IN PICTURES, Containing Wenty-four Heliotype Plates, from Correction, Collet, Reynolds, Greuze, Lawrence, Murillo, Grender, Rapharl, and other celebrated painters, —forming a seri of the colletter of children and child-life. Quart Price, \$10.66. JAMES E. OSGOOD & CO., Bosto







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 49.7

do

SATURDAY, DECEMBER 2, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | Boston. | New York. | Philadelphia.

LAWRENCE, WILDE, & CO., MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and ORDERED ORK a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.
The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.
All Buildings with Stand-Plpes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarrym an, and Whole ale Dealer in BUILDING STONE.

ORIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.
Solo Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey. AGENT FOR CANAAN MARBLE. ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,

AND BURGLAR ALARMS, For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street. Boston

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White PRESSED FRONT BRICK.
MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,

FOR EXTERIOR AND INTERIOR ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.

Works at Sayerville, on Raritan River, N.J., Office, NEWARK, N.J.

MINTON'S ART AND ENAMELLED

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES, T. ASPINWALL, Sole Agent,

38 MURRAY STREET, NEW YORK.

FOR SALE.—Complete set of "The Architect," London. Vols. 1 to 15, inclusive, in half morocco.

Present year not bound. Price, \$90. Address Lock-Box No. 2, Philadelphia.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Heliow Blocks of any pattern, uniting atrength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, is largely used in this manufacture. The blocks do not conduct head, cold, or sound, and weigh sixty per cent less

conduct hear, com, or source, arches between iron beams, Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following

cenings under wooden or iron beams, in the following buildings:

W. stern Union Telegraph, Del. and Hudson Canal Co., Staats Zeitung, Equitable Life Assurance, Hudson R. R. E. Fr'ght Depot, Wilmsb gh Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Windsor Hotel, New York Hosalital, New York Hosalital, Tribune, Peabody Museum. Tribune, Peabody Museum. Silo. Silewalks laid at Lenox Library, Tribune, &c. Holow Bricks of all kinda. Our Fire-Froot work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

Office, III Broadway, N.Y.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

ORNAMENIAL MOSERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE BUILDINGS.

ALSO GAS FIXTURES.
WAREROOMS, No. 597 BROADWAY, NEV

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS,

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Tremont Street, Boston. Office in the New England Mutual Life Insurance Co's. Building, Post Office Square. CHARLES WHITTIER, Pres. JAMES STURGIS, Treas

BARTLETT, ROBBINS, & CO.,

OARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
GALVANIZED IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING AND VENTILATING BY HOT WATERA SPECIALITY,
Works, cor. Pratt and Scott Sis.,
Office 24 Light St., BALTIMORE, MD.
NEW YORK OFFICE, 68 Beekman Street.

JOHN H. REED & CO.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in

Homogeneous Boiler and Fire-Box Plates, Plate, Sheef, Plg,
and Railroad Iron, Wrought Iron Girder, Channel, and

Deck Beams, Angle and T Iron, Boiler and Tank

Rivets, Lap-Welded Iron Boiler Tubes,

Wrought Iron Steam and Gas Pipe.

Offices, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS.

MANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

TO BE OPERATED EITHER BY STEAM OR WATER. The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON.

OTIS TUPTS, President.

OFFICE, 243 Broadway, New York.

I. A. Bigelow, resident.

Treas'r and Geu'l Manager.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

E. H. BRABROOK,

96 and 98 Washington St., Boston.

FURNITURE & INTERIOR DECORATIONS,

MR. VICTOR CHARMOIS - Designer.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS,
As laid by us in
THE CAPITOL AT WASHINGTON,

And in numerous Churches, Banks, and Dwellings in every part of the Country.
Glazed and Enamelied Files for Mantels, Hearths, Wainscoting, &c., and for Exterior Decoration.
MILLER & COATES,

279 PEARL STREET NEW YORK.

ARCHER & PANCOAST MANUF. CO.,

MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES, CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE.
67 GREEN St.; 68, 70, & 72 WOOSTER St., ABOVE BROOMS,
NEW YORK.

Broadway cars pass the door.

G AS FIXTURES
OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
B. HOLLINGS & CO., 547 Washington St., BOSTON.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIFER, Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHIANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of THE UNION
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDEN BEST" IRON, Tensile Strength 73,000 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, ORAIN, AND WATER PIPE, LAND TILE, CHIMNEY OPS, FUNNEL STONES, &c. BENJ. NOYES, Agent,

CAPE ANN GRANITE COMPANY
GRANITE BUILDING, SIM MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 60 WATER ST., BOSTON.
QUERTIES: BAY VIEW, GLOUCESTER, MASE,
JONAS H. FRENCH, SUPER, MASE,
SCOTT WEBBER, SUPE.

GEO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

BUILDERS' SUPPLIES.

HAWTHORNE & TUCKER,

PLUMBERS,

PROVINCE STREET, BOSTON

Estimates for Plumbing made, and work done in any part of the United States or Provinces.

MOSES MELLEN & CO. 16 Bromfield

ENAMELLED SLATE MANTELS AND SHELVES PARLOR GRATES, ENGLISH FLOOR AND WALL TILES.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COCHT STREET,
BOSTOS.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

MONS. C. J. SOYARD, formerly 12 West MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, NARAT TREMONT, BOSTON.

HENRY B. JONES & CO. ctailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.

STEAM STONE-DRESSING WORKS. ; 264 TO 270 PASSAIC STREET, NEWARK, N.J. imates made, and cut atone work of every description ptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858), ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &c., No. 266 West 14th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circuiars. W. H. KIMBALL, 120 Tremont Street. Bos.on.

FOR MARBLE FLOORING TILES, GEO, BARNEY, Swanton, Vt.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER.

DESIGNER.

ECCLESIASTICAL DECORATOR

440 TERMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER.

No. 17 PEMBERTON SQUARE

BOSTON.

WALLBURG & SHERRY,
INTERIOR PAINTERS AND DECORATORS,
OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS,
No. 136 HARRISON AVENUE, BOSTON.

HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S, BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HARILTON PLACE,
Opp. Park-Street Church.
BOSTOM

WARNER BAILEY, Sign and Ornamental

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which become useful constitute the leading items of their business. FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insuranc Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTTERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of mend, maximum of stiffness, maximum of clinch; the best lath ever made, eith r wood or rine," See New York Post-Odiec; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. Hory will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work

PROPOSALS.

QUEBEC HARBOR WORKS.
PROPOSED WORKS AT THE MOUTH OF THE
HIYER SI. CHARLES.
Tenders will be received at the office of the Quebec
Harbor Commissioners up to noon of Thursday, the first
day of February, 1877, for the construction of the following
works:

Tenders will be received at the office of the Commissioners up to noon of Thursday, the first day of February, 1877, for the construction of the following works:

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.

2. The proposed South Tidal Harbor.

3. The dredging out and the formation of a channel-way parallel to both walls.

4. The construction of cribwork at the end of the embankment next to the Gas Works.

5. Cribwork and retaining-walls adjoining the Ballast Wharf.

6. The construction of a bridge over proposed eighty (80) feet entrance in the north wall of the South Tidal Harbor.

Plans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners during office hours; and printed copits of the specifications and bills of quantities will be furnished to intending contractors about making a deposit of firty dollars, to be related to the commissioners will be received.

The Commissioners do not bind themselves to accept the lowest or any tender.

The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, addresses, and occupations are to be inserted in full in his tender, and who are willing, with him, to be bound hence of the contractor, and who are willing, with him, to be bound must be contractor is to find the contractor.

Tenders for these works will not be considered unless accompanied by an accepted b nak check, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer.

HARBOR COMMISSIONERS' OFFICE, &

STEAM FANS.—The Trustees of the Columbus Hospital tor Insane will receive scaled proposals until 12, M., thursday, December 14, 1876, for the construction and receition of a system of ventilation of the Hosoital Building, by means of Six Steam Fans and Connections Building, by means of Six Steam Fans and Connections, brickworf, stonesore, e.g., 2, 81s, steam fans and connections, brickworf, stonesore, e.g., 2, 81s, steam fans and catlone are now on file in the office of the architect upon the grounds. Blanks, with guar-ruty bonds attached, will be furnished on applica ion. Bids must be scaled and directed to A. D. Rogers, Esq., President of the Board of Trustees, and indorred for such part of the work as they may be for, and left at the architect's office upon the grounds. By order of the Board. For further information address, T. E. TISSLEY, Architect.

PROPOSALS FOR STATE, WAR, AND NAVY DEPARTMENTS.

Office of Building for State, War, and Navy Depart-MENTS,

No. 2100 PENNSYLVANIA AVENUE, WASHINGTON, D.C., Nov. 21, 1876.

No. 2100 PERNATLY AND A VENNER, WASHINGTON, D.C., Nov. 21, 1876.

Sealed proposals will be received at this office until 12. M. of the 21st day of December, 1876, for furnishing, delivering thing and patting in place, the wrought and cast ir in work, as exhibited by the drawings, described in the specifications, as exhibited by the drawings, described in the specifications, as chibited by the drawings, described in the specifications, as chibited by the drawings, described in the specifications, and substitutions of the East Wing of Building for State, War, and Navy Departments, at Washington, D.C.
Copies of the drawings, specifications, and schedules can be had on application to this office.
All bids must be accompanied by a penal bond, in the sum of the augregate amount of the bid, that the bidder will accept and perform the contract if awarded to him. The sufficiency of the security to be certified by the United States Judge, the Clerk of the United States Court, or the District Attorney of the District wherein he resides.

The undersigned reserves the right to reject any or all bids; and any bid that is not made on the form to be obtained in this softice, and does not conform to the requirements of this errors and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and does not conform to the requirements of this errors, and the work.

Froposals will be indorsed, 'Bids for Iron Work of Roof o

STONE BRIDGE. Proposals will be received until Dec. 5 for building a four-arch stone bridge over the Cencord River, Concord, Mass. Plans and specifications may be seen at the office of H. W. Blaisdell, civil engineer, 32 Femberton Square. The right is reserved to reject any and all proposals.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposuls for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country. the country.

LIENARD'S DECORATION AND ORNAMENTATION, Specimens of the Decoration and Ornamentation of the Mucteenth Century. By LIENARD.
Reproduced by the Heliotype Process. Cuwards of 120
designs, rich in hints to Architects and Decorators. 1 vcl.
tolio, boards, \$27.00. Half morocco, cloth sides, \$30.00.

JAMES R. OSGOOD & CO., BOSTON.

DISCOURSES ON ARCHITECTURE. -

VIOLLET-LE-DUC'S WORKS.

THE STORY OF A HOUSE. Illustrated

THE STORY OF A HOUSE. Illustrated by the Author. Translated by George M. 10vil.s. Ivol. 8vo, beveled boards, red edges, \$5.00.

"The basis of the story is the building of a château on the true principles of a chitec ure. The chief characters are M and Mme. Gaudaiau; their newly married daughter, for whom a new château is to be built during her absence on the wedding tour; theirson Paul, aged sixteen; and a consine Eugene, who is an architect. Their practical as Istant is Master Branchu, a shr wid builder's foreman, or small contractor, whose book-knowledge is limited, but who always has his wits about him, and often proposes practical questions and so ections which puzzle his architect. Another prominent character is M. Durossy, a friend of the family, who has read and travelled much, and knows a little of every thing. He has been his own architect, and has built a very costly house which has failen to pieces; his own estate; and he like to consider himself an infailible ludge in matcher is and made impracticable road on his own estate; and he like to consider himself an infailible ludge in matcher is a subjected.

"With such varied characters for his mouthpleces, the author is able to lend fresh attractions to the study of his beautiful art, to point out the difficulties and prejudices and misunderstandings to which architects are exposed, to discuss his pet theories, and impress his favorite rules, without suspicion of gotism; and all this through the medium of piquant conversations, by which the reader is so well entertained that he fyrgets he is being instructed. The unpretentious carnestness, simple wisdom, and sound practical information, which light up overy page, together with the artistic liftustrations prepared by the same master hand, make this latest work of M. Violietie-Duc the most attractive text-book of architecture that has ever come under our notice." — American Baited that has ever come under our notice." — American Baited that has ever come under our notice." — EOPTIPESS. Translated.

ander our notice."—American Bailder (New York).

ANNALS OF A FORTRESS. Translated by Benjamin Buckenall. Architect. I volume 8vo, Eighty-3ve tilustrations, several in colors. \$5.00 or M. Yioliet-le-Duc is an accomplished architect, an able, military engineer, and an ingenious and fiscinating writer, Illia's Story of a House' displayed his taste in the first capacity; his 'Annals of a Fortreas' exhibits his genius in the second; while his skill in the third is strikingly Illustrated in both of these exceptional, y handsome volumes. In the last named this glited and brilliant author describes the locatine, planning, recting, and defending through seven successive sie es, of an imaginary fortification on the River Cousie, an affluent of the Saöne in France. Each chapter in its history is set forth with the greatest elaboration and strictest regard to the technics of the art of war, so that the effect is that of a veritable narrative, or more properly, perhaps, of a scientific review." — Boston Congregationalist.

"Those who read the book through carefully, by the help of the beautiful Illustrations with which it is lavishly embellished, will not only obtain an excellent idea of the spirit of mediaval architecture, but a better knowedge of the art of fortification from the earliest ages up to recent times than could be found in any other way short of the research and study which the author has himself given to the matter. M. Viollet-Duc is master of the subject, and imparts his learning in a thoroughly fascinating manner." — Saturday Review (London).

"The different styles of fortification are described minutely, and with the precision of a military treatie; and the descriptions of the battles and steges are as vivid as any thing of the kind in Alison. Numerous charirs, plans, and pletures—some of them colored and exquisitely enganced less thing of the kind ever written, and sarreely less interesting to Americans than to Frenchmen." — Appieton's Journal.

"A very interesting and instructive work on the science of f

SEWER AND DRAIN PIPE. BOSTON FIRE BRICK WORKS.

WHARF, 394 FEDERAL STREET, BOSTON,

(Just South of Kneeland St.)

MASS. INSTITUTE OF TECHNOLOGY. This school offers a four-years' scientific and pro-training for Chemists. Metallurgists, Civil, Mech and Mining Engineers, Architects, Teachers of Scie

onal transmost, and the state of the state o

esign.
Special students in Architecture are received into a two-ears' special course.
The work of the school is exhibited at Philadelphia, in

Special students in Architecture are received into a two-years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars andress William R. Ware, Esq., Pro-fessor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.

EXAMPLES OF MODERN ARCHITEC-FURE. From designs by Scott, Street, Colling, and others. I vol. quarto. 64 parks. \$15.90. Containing designs for Churches, Cathedrals, Collegos, Italis, Railway Stations, Museums, Model Dweslings, Baths, &c. JAMES R. OSGOOD & CO., Hostook.

MABEL MARTIN. A Harvest Idyl. By JOHN G. WHITTIER. Popular Edition. 21 Illustrations. \$1.50. ALES R. OSGOOD & CO., BOSTON

76. S.

the distriction of the state of

in o-

BUILDING MATERIALS.	DOUBLE THICK. 6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50	PAINTS AND OILS. Chalk
LATEST NEW YORK QUOTATIONS.	11 x 14 - 12 x 16 23 00 21 00 20 00 18 50 11 x 18 - 14 x 24 24 50 22 00 21 00 19 50	China elay
Dec. 1, 1876.	15 x 24 - 15 x 32 30 00 28 00 25 00 — 16 x 32 - 20 x 30 32 00 30 00 28 00 — 22 x 30 - 15 x 38 34 00 32 00 28 00 —	Zinc, white, American, dry 61/20 71/2 Zinc, white, American, in oil, pure. 111/20 12
BRICK. Cargo Afloat. Pale	20 x 34 - 22 x 36 37 00 34 00 30 00	Lead, white, American, dry 9 @ 9½ Lead, white, American, in oil, pure. 10½% 10½ Lead, red, American 8 @ 8%
Long Island	24 x 42 - 28 x 42 44 50	Litharge, American 8 6 8% Ochre, French, dry (gold) — 6 1 50 Ochre, in oil (currency) 6 6 15
Creef	30 x 50 — 32 x 52 48 50	Venetian red, English (gold). 4) cwt 1 85 @ 2 00
Yard prices, 50 c. per M. higher, or, with delivery added, \$2 per M. for Hard, and \$3 per M. for Front	34 x 58 — 34 x 60 55 00 50 00 46 00 —— 36 x 60 — 40 x 60 60 00 55 00 52 00	Spanish brown, dry 1½ 1½ 1½ Spanish brown, in oil 8 0 9
Brick. FRONTS.	Sizes above, \$15 per box extra for every five inches. An additional 10 per cent will be charged for all glass more than 40 inches wide. All sizes above 52 inches in	Vermillon, Am. Quicksilver (gold). 70 @ 72½
Croton - Brown	length, and not making more than 81 united inches, will be charged in the 84 united inches bracket	Carmine, American, gold 4 85 @ 5 50 Chrome yellow, genuine, dry 12½@ 27 Crome, yellow, in oil 18 @ 28
Croton - Dark	Discount to the trade, 50 and 10 @ 50 and 10 and 5 per cent.	Orange Mineral English, gold 1114@ 1114 Paris green, pure, dry 25 @ 30
Trenton	AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th.	Crome, yellow, in oil. 12/2@ 24 Crome, yellow, in oil. 18 @ 28 Orange Mineral English, gold. 1114@ 1114 Paris green, pure, dry. 25 @ 30 Putty, pure. \$\ \P\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
and \$6 on Baltimore.	11 A 14 - 12 A 13 11 00 10 20 0 13	Siema, burne, in on
CEMENT. Rosendale	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Sienna, raw, in oil
Portland	25 x 30 — 24 x 30 19 75 16 75 13 50 — 21 x 28 — 24 x 36 20 25 17 50 14 00 —	15 25 25 25 25 25 25 25
Keene's fine	28 x 44 - 30 x 50 24 00 21 50 16 75	Black, Lamp, Coach
FIRE BRICK. Red Welsh	30 x 52 - 30 x 54 27 25	Black, Lamp, ordinary — @ 6 Black Paint, in oil, kegs — @ 8 Black Paint, in oil, cans — @ 11
Red Welsh. \$49 00 @ Scotch 40 00 @ \$45 00 American. 30 00 @ 40 00	34 x 58 — 34 x 60 31 50	PLASTER PARIS. Duty. — 20 per cent. ad val. on calcined; lump, free.
DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES.	Above \$12 per box extra for every five inches. Discount, 70 @ 75 per cent. Also sold at 60 @ 60 and 5 from French list.	Nova Scotia, white
DOORS, RAISED PANELS, TWO SIDES. 2.0 x 6.0 1½ in. \$1 00	GREENHOUSE, SKYLIGHT, AND FLOOR GLASS.	Calcined, Eastern and city \$\psi\$ bbl. 1 25 @ 1 50 Calcined, city casting
2.6 x 6.8 134 1 20	Fluted plate 20 22 4 Rough plate \$0 65	
Doors, Moulded. Size. 1% in, 1% in, 1% in.	1 Fluted plate 40 Rough plate 1 15 Rough plate 1 30	SLATE. Delivered at New York.
2.0 x 6.0 \$1.52 2.6 x 6.6 1 87 \$2 38	Rough plate 50 1 1/4 Rough plate 1 80 FOREIGN WOODS.— Duty free.	Red slate
2.6 x 6.8	Comercia	City)
2.6 x 7.0 2 01 2 68 3 18 2.8 x 6.8 2 00 2 58 \$3 18	Cuba	delivered
2.8 x 7.0 2 09 2 68 3 34 2.10 x 6.40 2 20 2 78 3 54 3 0 x 7.0 2 30 3 02 3 74	Florida	No. 1
GLAZED WINDOWS.	good	TIN PLATES. — Duty, 1 1-10c. (*) 15.
Dimensions of 12 Lights, 8 Lights. 4 Lights.	St. Domingo, logs, small. 0 7 @ 0 10 St. Domingo, logs, small. 0 7 @ 0 10 St. Domingo, logs, large 0 15 @ 0 25 Cuba, logs, small. 0 9 @ 0 15 Cuba, logs, large 0 20 @ 0 30 Fontera, Mexican, large 0 12 @ 0 16	I. C. coke, 10 x by 14
Windows, 14pl. 14gec, 1½cc, 1½	Cuba, logs, small	I. X. charcoal, 14 x 20
2 7 x 4.61.45 1.52 1.64 1.67 — 1.69 1.81 2.7 x 4.101.56 1.64 1.77 1.80 — 2.02 2.15	Frontera, Mexican, large	I. C. coke, terne, 14 x 20 6 50 @ 7 00
2.7 x 5.2	Honduras 0 5 @ 0 9	I. C. charcoal, terne, 14 x 20
2.7 x 5.10— 1.94 2 13 2.19 2.38 2.43 2.62 2.10 x 4 61.59 1.66 1.80 — 2.03 2.17	Rio Janeiro, ordinary to good Plb. 0 2½@ 0 3½ Rio Janeiro, good to fine 0 4 @ 0 6	LEAD.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Bar 0 8% Sheet 0 9 Pipe 0 0 1%
ce means counted checked, plowed and bored for weights	Bahla, good to fine	A decline of 1/4 cent. Discount 10 per cent to trade.
Hot-Bed Sash, Glazed	Tullpwood	IRON.
Per lineal foot up to 2 10 wide	LATH.—Cargo rate	Boiler and Plate, 1½c. \$\psi\$ B; Sheet, Band, Hoop and Scrool, 1½ to 1½c. \$\psi\$ B; Sheet, Band, Hoop and Scrool, 1½ to 1½c. \$\psi\$ B; Fig. \$7 \$\psi\$ ton; Polished Sheet, 3c. \$\psi\$ B; Galvanized, 2½c. \$\psi\$ B; Scrap Cast, \$6 \$\psi\$ ton — all less 10 per cent. No Bar
Per lineal foot, up to 3.1 wide	Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 00 Pine, good	3c. 分情; Galvanized, 2½c. 分情; Serap Cast, \$6 分 ton; Serap Wrought, \$8 分 ton—all less 10 per cent. No Bar
Inside Blinds.	Pine, common box	Pig. Scotch. Coltness
Per lineal foot, 4 folds, Ash or Chestnut	Pine, tally plank, 13, 10in., dres'd each 40@ 43	Pig, Scotch, Gartsherrie. _@ Pig, Scotch, Glengarnock 27 00@ Pig, Scotch, Eglinton 26 00@
Per lineal foot, 4 folds, Black Walnut — @ 1 20 Window Frames.	Pine, tally planks, 14, culls	Pig, American, No. 2
Up to 3.4 x 7.2, put together @ 2 65	Pine, tally boards, dressed, good	Bar, refined, English and American
HAIR.—Duty free. Cattle	Pine, strip boards, merchantable	Bar, Swedes, assorted sizes (gold)—@ 100 00 Store prices, cash. Bar, Swedes, ordinary sizes130 00@ 132 50
LIME.	Spruce boards, dressed 22@ 25	Bar, Swedes, plow sizes
State, common, cargo rate	Spruce plank, 2in	in, x ½ to lin
Rockland, common. 85 @ 90 Rockland, finishing. 1 25 @ — Ground. 90 @ 1 00	Spruce timber	Bar, refined, 1 & 1 1/4 x 3/4 & 5-16 2 6-10@ ————————————————————————————————————
Add 25 c. to above figures for yard rates.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Scroll
GLASS. Duty. — Window, Polished Cylinder, and Crown, not	Ash, good	Rods, % to 3-16In 25-10a 47-10
over 10×15 in., 21/6c. 17×15 sq. ft.; larger, and not over 16×24 in., 4c. 17×15 sq. ft.; larger, and not over 24×30 in., 6c. 17×15 sq. ft.; above that, and not exceeding 24×60 in., 20c.	Maple	7,000 2000 1140
P sq. ft; above that, and not exceeding 24 x 60in., 20c. P sq. ft.; all above that, 40 ct. P sq. ft. On Unpolished Cylinder, Crown, and Common Window, not exceeding	Chestnut plank	THE BOSTON MARKET.
over that, and not over 24×30 , $2 \% c$; all over that, $3c$.	Black Walnut, %	Dec. 1, 1876. NAILS. Dec. 1, 1876. P Cask.
P lb. FRENCH WINDOW. List of March 1, 1876.	Cherry, good	10d
Sizes. 1st. 2d. 3d. 4th.	Whitewood, chair plank	AVIE PILLEYS — Steel. 475
x 8 - 7 x 9\$11 00 \$10 50 \$10 00 \$9 50 10 10 - 10 x 15 12 00 11 00 10 50 10 00 16 x 14 - 12 x 16 13 50 12 50 11 50 10 75	Whitewood, %1P	2 in., Pennsylvania make
16 x 18 — 14 x 24 14 00 13 00 12 00 11 25 18 x 24 — 15 x 32 17 00 16 00 14 00 13 00	Shingles, extra shaved pine, 16in 8 50@ 9 50 Shingles, extra sawed pine, 18in 7 00@ 8 00	SASH UNE D b. 11/2c.
20 x 32 - 20 x 30 18 00 16 50 14 50 13 50 21 x 30 - 15 x 38 19 50 18 00 16 00 -	Shingles, cypress, 24 x 7	Best linen
21 x 34 — 22 x 36 20 50	Shingles, cypress, 20 x 6	DOOR BUTTS. Sine - 4° x 4° 5 x 5
24 x 42 - 28 x 42 25 50 22 50 20 50	Yellow pine girders	Japanned Acorn \$4 00 \$5 00 \$7 doz. pairs.
30 x 50 — 32 x 52 28 00 25 50 23 00	Locust posts, 10ft	Plain Bronzed Iron 80 92 \$\text{\$\psi}\$ pair. Ornamental Bronzed Iron, 1 50 1 75 \$\text{\$\psi}\$ pair. Ornamental Bronze Metal, 3 60 4 00 \$\text{\$\psi}\$ pair.
36 x 60 — 40 x 60 35 00 32 00 29 00 —	Cargo rates 10 per cent, off.	[CONTINUED ON NEXT PAGE.]

THE BOSTON MARKET-Continued.

Builders' Hardware.	
MORTISE LOCKS - Brass face and bolt - east	sy
spring. 3½ to 4½ in	n.
Factory make, plain front \$3 25 each	h.
Factory make, bronze front 5 50 each	
Boston make, plain front 8 00 each	
DOOR KNOBS. P Se Solid glass	t.
Solid glass	10
Silvered glass	LU

STORE DOOR HANDLES - with mortise latch.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash

For Insane Kospitals, Fire Proof Buildings, &c.



es perfect security wit a prison-like appears itects and medical sup-

D. M. MEEKER & SON,

Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver, and Composition; also Patterns a specialty.



PROTECT

YOUR HOUSES AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement preclude i possibility of overflow, by which buildings are so often imaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary mash-bowl. This guaranty accompanies every basin sold to o atrons:—

Ne hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties intereated may select, without expense to them, immediately on their failure to fuifit the following conditions, provided the trap is kept in running order:—

1st. We warrant our trap to remain free and open as long or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppace.

2d. No overflow or leakage of any kind will occur.

3d. No sewer gas will escape from the drain or pipe, or my offensive smel arise from them.

4th. These bowls will remain free and clear from any secumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

L. S. MOORE & CO., 40 Oliver Street, Boston



SCOTCH AND AMERICAN Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston.

PNGRAVINGS FROM LANDSEER, Reproduced in Heliotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fadelity some of the most famous of Landseer? Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest, "The Monarch of the Glen," "High Life," "Low Life," "Laying Down the Law," "Shoeing the Bay Mare," and others of equal beauty. Quarto. Price, \$10.00. JAMES R. OSGOOD & CO., BOSTON.

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131, 133, & 135 Shawmut Avenue,

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

OSGOOD'S NEW BOOKS.

POEMS OF PLACES.

Edited by H. W. Longfellow. Uniform with "Little Classics." \$1.00 each.

ENGLAND—Vol. I. (Aldborough—Furness Abbey Vol. II. (Glastonbury—Nottingham.) Vol. III. (Oakley-Tynemouth.)

"We can conceive of no series so charming, when conpleted, as this, or one which promises to become so popular."—Boston Transcript.

"LITTLE CLASSIC" HAWTHORNE.

THE DOLLIVER ROMANCE.

The twenty-third and concluding volume of the p Little Classic " HAWTHORNE. With Index of Subjects

"Little Classic" HAWTHORNE. With Index of Subjects in the entire series. \$1.25.

"Fe Each of the twenty-three volumes contains a new Vignette Illustration.

"We cannot aufficiently praise this splendid edition of Hawthorne. The publishers are to be congratulated on their artistic success with it, and it should be in every library."—New Haven Journal and Courier.

ILLUSTRATED LIBRARY HAWTHORNE. FANSHAWE, AND THE DOLLIVER ROMANCE.

With two Illustrations. 12mo. \$2.

This vo'ume completes the Illustrated Library Edition of HAWHIORNE'S WORKS, in 12 volumes, 12mo, each containing two Illustrations.

VEST-POCKET SERIES.

RAB AND HIS FRIENDS, and MARJORIE FLEMING, By Dr. John Brown. Illustrated. Flexible cloth. 20 cts. A beautiful Pocket Edition of two of the most charming Stories in the English language. "Rab" and "Pet Mar-jorie" are unique and delightful.

THE HUNTING OF THE SNARK.

AN AGONY IN EIGHT FITS. By Lewis Carroll.

Author of "Alice"s Adventures in Wonderland," &c., with nine Illustrations by Henry Holiday.

I vol., 22mo. 59 cents.

A cheap edition of a curious and entertaining little book, in which the Bellman, the Baker, the Beaver, the Barrister, and the Banker tell stories and dreams of Jujubs, Snarks, Boojums, and other grotesque and amusing folks. The readers of "Alice"s Adventures" will need no second invitation to read "The Hunting of the Snark."

*. For sale by Booksellers. Sent, post-paid, on receipt of fice, by the Publishers.

JAMES R. OSGOOD & CO., Boston.

E. P. DUTTON & CO., No. 713 Broadway, New York.



National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings,

Monuments, and Altars. Architects' Designs executed, and designs

furnished for special subjects.

Artistic Monuments in Granite and Bronze.



Architects desiring information connected with our art are invited to confer with us.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty. Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston.



Springfield Gas Machine.

ANDREW G. PAUL, 119 Court Street, Boston.

TO INTERIOR DECORATORS.

An excellent advertising Medium for your purposes is the AMERICAN ARCHITECT AND BUILDING NEWS.

ASAHEL WHEELER'S CONSTANT WHITE PAINT. Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING on be shown looking much fresher than any other paint of can be shown looking much result shall be actively years.

It emits no poisonous gas like other paints while drying. Its surface is a perfect enamel, from which any specks of dirt may easily be removed.

It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos
by Correggio and Parmegiano. Reproduced by the
Heliotype Process from the "Gray Collection of Engravings," Hervard University.
This volume contains twenty-four Plates, including Parmegiano's Saint Agarha, Saint Lucia, and Saint Apollonia,
Two Deacons, and Saint George. Of Correggio's Frescos, it
includes the Madonna dells Scala, Diana in a Charlot, The
Coronation of the Virgin, groups of Cherubs and Angels.
A rare and valuable collection. Quarto. Price, 810.00.

JAMES R. OSGOOD & CO., Bostop

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS.

TRACING CLOTH.

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper,

Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.







[ESTABLISHED 1944.]

PARLOR GRATES

H. M. CREAMER.

86 North Street, Boston Send for Price List. parties are living within fi hundred miles of Boston, will pay tocali and examin

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

g. of

E. Hixon, jun

UPS AND DOWNS ON LAND AND WATER. Oblong folio. \$10.00
"Turning over these pages is like gathering around a fire-side to like the stravelled of the stravelled of the sees well open. Only Mr. Hoppin's pencil is more cliquent and witty than most men's tongues."—Boston JAMES R. OSGOOD & CO., BOSTON.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

*** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., BOSTOR.

J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose

Hlustrated Catalogues Post Free.

Wood Work | Metal & Stous Work | Banners & Decoratio 10 cts. | 10 cts.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from our own patterns, or from architects' drawings. 20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WARRHAM STREET.



ROETH & MAY. FURNITURE

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books supplied at publishers' prices, A. J. BICKNELL & CO.,

27 WARREN STREET, NEW YORK.

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 68 Washingon st; Pitkin Bros. 3 Charlestown st; Allen & Noble, 94 Hanover st; Bogman & Vinal, Dock sq; Farless & Boynton, 13 Cornhill; Gardner & Chandler, 32 Washington st; B. L. Solomon & Sons, 69 Franklin street.

Providence, R. I.—Belcher Bros. 27 Weshosset st. Asew Y are K. Ety.—A. Hammancher & Ch. 290 Bowry; A. Hammancher & Ch. 290 Bowry; W. F. Lobinger, 198 Broadway; E. R. Krumm, 121 Esset street; Inst. E. Kuper, 10 Division st. Speyer Bros. 118 Bowery; W. F. Inbinger, 198 Grand st; C. A. Stock, 116 Wooster street.

Brooklyn, (E. D.) X. Y.—Hermann Weber, 134 Graham av. Albanay.—Maurice E. Viele, 41 State st. Rochester.—Follock, Weaver, & Co., 17 Euffalo st. Binfinlo.—C. H. Utley, 32 Pearl st.

Philadelphia.—Thomas Kingham, Song, & Co., 205, 24 Philadelphia.—Thomas Kinght & Co., cor. Ridge ave, and Woodst. Bauthin st; Homas Kinght & Co., cor. Ridge ave, and Green st.

Pittsburg.—Joseph Woodwell & Co., cor. 24 ave, and Woodst. Bauthin st; Homas Kinght & Co., cor. Ridge ave, and Green st.

Philadelphia.—Thomas Kinght & Co., cor. Ridge ave, and Green st.

Pittsburg.—Joseph Woodwell & Co., cor. 24 ave, and Woodst. Bauthin st; Homas Kinght & Co., cor. Ridge ave, and Green st.

Cleveland, d. — George Workington & Co., 39 Water st; Wim Bingham & Co., 188 Water st.

Chinelinantia.—Gianecher & Kuhlman, 834 Main st; J. La

Cleveland, O. — George Wormington & Co., as M. Wim. Bingham & Co., 18 Water st.
Clackmatt, — Glaescher & Kuhlman, & Main st; J. L. Kayne & Son, 12 Main & Son, 74 Randolph st; A. A. Ulrich & Co., 18 Fixlaw & Son, 74 Randolph st.
Detroit. — Buhl, Ducharme, & Co., 103 Woodbridge street.
St. Leuis. — Geo. A. Rubelmanu & Co., 87 N. 81 in evenue.
San Francisco. — B. J. Solomon & Sons, 40 Market street.
Montrent. — James Walker & Co., 168 St. James st.
Charlette. — S. J. Slaw & Co., 78 J. James st.
Ramilton, Ont. — Watson & Thompson, 16 McNab st.
agr Our goods can be purchased of the above Agents at the same prices and terms as of us.

WILLIAM B. GLEASON & CO., West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

BOSTON.

P. TOLMAN & E. A. HUNTING,
GENERAL AGENTS. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NEGOTIATED. NO. II BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY

JAME:	S R.	OSGOOD	&	CO.,
WINTEROP	SOUARI	E		Boston

A JOUENAL OF CONSTRUCTIVE AND DECORATIVE ART.
DEVOTED TO THE INTERESTS OF ARCHITECTS,
BUILDEES, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

On the first page, and pages next to editorial matter, cents per line (agate), or \$1.75 per inch (fourteen lines) o Insertion. One inch, one month	
Insertion.	12
One inch, one month \$7.00 One luch, three months 20.00 One inch, inie months 58.00 One inch, one year 70.00 On other pages 10 cents per line each insertion, or \$1 per Inch. One inch, one month \$5.60	n
One luch, three months	
One luch, three months	
One inch, nine months	
One inch, one year	
On other pages 10 cents per line each insertion, or \$1 per inch. One inch, one month	
per inch. One inch, one month	
per inch. One inch, one month	.4
One inch, nine months	
One inch, one year	
No extra charge for cuts, or for advertisements that occu	133
more than one column in width.	

Publishers' Department.

Classified Advertisements

The following is an alphabetical list of the advertise ments which appear in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Adver-tisers will at once appreciate the excellence and convenience of the arrangement.

ARCHITECTS'	AND	ENG	INEERS'	STATIONERY,	&c.
Wadswort	h Br	08. &	Howland	l, Boston	

Wadsworth Bros. & Howland, Boston
ARCHITECTURAL BOOKS.
A. J. Bicknell & Co., New York
ARCHITECTURAL IRON WORK.

	Bartlett,	Robbin	8, & Co	., Bali	imore,	Md.	
An	CHITECTU	BAL SO	CHOOL.				
*	Mass. In	stitute '	Techno	logy,	Boston.		

Mass. Institute Technology, Boston	
ARTIFICIAL WOOD ORNAMENTS.	
W. B. Gleason & Co., Boston	

Sayer o	FISHER, NUWBER, 20.J.	
BRONZE D.	ECORATIONS.	
Nation	d Fine Art Foundery, New York.	
BUILDERS	AND REAL ESTATE IMPROVERS.	

BUILDERS AND REAL ESTATE IMPROVERS.
Tolman & Hunting, Boston
BUILDERS' HARDWARE.
Burditt & Williams, Boston

George Dwight, Jr. & Co., Springfield	
BUILDING STONE.	
Charles P. Williams, New York	

	Ann Granite Company, Boston.	
	FURNITURE AND UPHOLSTERY	
Edwa	d Hixon & Co., Boston	

Edwa	ard Hixo	n & Co., Bo	ston
CHURCH	AND HA	LL OBGAN	is.
New	England	Organ Co.,	Boston

CHURCH FU	RNITURE.							
J. & R.	Lamb, Ner	w Yo	rk		 	 		
Braman	, Shaw, &	Co.,	Bosto	n	 	 		
CHURCH OR	GANS.							

E. & G. G. Hook & Hastings, Boston	iv
CONTRACTORS AND BUILDERS.	
W. H. Warren, Boston	viii

	, Boston
	ENGRAVING.

44 . O . A	ana, moston	* * * * * * * * * * * * * * * * * * * *
DIFFERENTI	AL PULLEY BLO	OCKS.
Yale Loc	ek Manuf'g Co., S	Stamford, Conn

X ale Lock 2	nanur g co., sta	miord, Conn
DRAIN PIPE.		
N. E. Drain	Pipe Co. Boston	a

Waldo	Brothe	ers, Boston	
ELECTRIC	BELLS,	ANNUNCIATORS,	&c.
S. W.	Fuller,	Boston	

Tufts' El	evator V	Vorks, I	Boston
ELEVATORS,	STEAM	ENGIN	ES, &c.

FELT ROOFING.

FIRE-BRICK AND CHIMNEY-TOPS.

FIRE-PROOF BUILDINGS.

THO THOSE BRITAINS CON TION	-	~	-				۰	0 1			۰
FURNITURE AND DECORATION.											
E. H. Brabrook							6.9				4
Roeth & May, Boston											
Lawrence, Wilde, & Co., Bost		-			•	•	n	-	-		a
Lawrence, while, & Co., Bost	OIL		0 1	0 0	0 0	0		0.4			ø

FURNITURE, WOOD MANTLES, &c. C. J. Soyard, Boston FRESCO PAINTERS. W. J. McPherso

Philip A. Butler, I	loston	 		 9				
Wallburg & Sherry	, Boston.	 					9 1	
L. Haberstroh, Bo	ton	 						
William S. Brazer	Boston	 						
GAS FIXTURES.								
P Hollings & Co	Docton							

- R. Hollings & Co.. Boston...
 Mitchell, Vance, & Co., New York
 S. A. Stetson & Co., Boston...
 Archer & Pancoast Manuf. Co., New York
 M. W. Peirce & Co., Boston...
- GAS MACHINES.
 Andrew G. Paul, Boston......vii INTERIOR WOOD-WORK, DECORATIONS, &c.
 Pottier & Stymus Manufacturing Co., New York. iii
- IBON BRIDGES.
 King Iron Bridge and Manu'f. Co., Cleveland, O IIBON CORNICES.
- Smith & Van Noorden, Boston....
- IBON MERCHANTS.

 John H. Reed & Co., Boston..... IRON WORK FOR BUILDINGS.
- J. B. & J. M. Cornell, New York LINEN HOSE. New England Linen Hose Manuf'g Co., Boston.
- MARBLE FLOORING TILES. George Barney, Swanton, Vt.....
- ORNAMENTAL AND CUT GLASS.
- J. Cartisser, New York...... ii Ornamental Bronzes.
- PAINT.
 Asahel Wheeler, Boston.....iv
- PAPER HANGINGS.
- H. M. Creamer, Boston
- PLUMBERS.
- Hawthorne & Tucker, Boston ii
 Plumbers' Supplies.
- Jennings' Sanitary Depot, New York.....viii
 Roofing Plates and Metals.
- SHUTTERS (STEEL).
- Clark & Co., New York......viii
 Wilson & James, New York.......viii
- The Hayes Patent, New York...... viii
- SLATE MANTELS, &c. J. W. Grigg, Boston.....vii Moses Mellen & Co.,....ii
- SLATE PAINT. New York Slate Paint Co., New York..... vii
- Am. Spring Butt Co., New York..... iv STAINED GLASS
- Le Bosquet Bros., Boston..... iv STEAM PUMPS.
- Geo. F. Blake Manufacturing Co., Boston..... STONE DRESSING WORKS.
- George Brown, Newark, N.J..... ii T. Aspinwall, New York......vii.
- VENEERS.
 Palmer, Parker, & Co., Bostonviii

Heliotypes and Books for the Holidays,

During the holiday season, Messrs. James R. Osgood & Co. will occupy the capacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will em-brace all the choice works published by Messra, Osgood and Co. during the past three years, including engrav-ings from the paintings of the most eminent modern artists, and the most renowned ancient masters, repre-

ings from the paintings of the most eminent modern artists, and the most renowned ancient masters, represented in the "Gray Collection" at Harvard College, This exhibition will afford a most excellent opportunity for the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Mesars. Osgood & Co., besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skelston in Armor," by Longfellow, superbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of the year; superior in some respects to "Mabel Martin," and "The Hanging of the Crane." The works of Tennyson, Longfellow, Emerson, Whittler, Holmes, Lowell, and numerous other American authors, will be presented in great variety and attractiveness. Among the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres." by Boyesen; "Three Centuries of Song," edited by Whittler; "Poems of Places," edited by Longfellow; "That New World," by Mrs. J. J. Platt; "Senshore and Prairie," by Mrs. Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 387 Washington Street, Poston, will be a very attractive resort during the next four weeks.

A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. S. M. B. Platt, author of "A Woman's Poems," and "A Voyage to the Fortunate Isles."
1 vol. 16mo, \$1.50. This is a volume which will be l vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World,"—which is also the special title of the leading poem,—is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

Tales of Two Hemispheres.

Tales of Two Hemispheres.

James R. Osgood & Co. have published in the "Saunterer's Series," a new work by H. H. Boyesen, the popular Norwegian author, under the above title. It contains six charming stories, on Old and New World subjects, which are told with remarkable grace and attractiveness. Speaking of the leading story, "The Man who lost his Name," the New York Evening Post said: "Its author has done other work as elever as this, but nothing that we can recall which has shown so much strength." I vol. 8vo, \$1.25.

"Flower and Thorn."

"Flower and Thorn."

In Mr. T. B. Aldrich's charming new volume of poems just published by James R. Osgood & Co., are included most of the poems the author has written since 1865, several of which have not before been printed. They merit in higher degree than "Cloth of Gold;" the description given of that collection by the "International Gazette," as "poems in which great delicacy of thought is combined with a felicitous choice of language."

The Kittredge Cornice and Ornament Co.,
Of Salem, O., has published "The Compendium of
Sheet-Metal Work," which is profusely illustrated with
designs of the goods manufactured by them. The
book comprises more than five hundred pages, and
gives prices, rules, and directions for estimates, items
of cost of their various ornaments, &c. The Compendium is a very convenient publication for those who
desire to use the materials made by the Kittredge
Cornice and Ornament Co.

Heliotype Art-Works.

boods

and

good

ther Wo-

the

He-

ive

PROTECT YOUR BUILDINGS.

Which may be done with one-fourth the usual expense, by

Patent Slate Paint,

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this slate, be made to last from twenty to twenty-five years. Old roofs can be patched and conted, looking much better, and lasting longer than new shingles without the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the coff simply laying them. The paint is FIRE-PROOF again sparks or flying embers, as may be easily tested by any or

IT STOPS EVERY LEAK,

and for tin or iron has no equal, as it expands by heat, con-tracts by cold, and NEVER CRACKS nor scales. Roofs cov-ere with Tar Sheathing Felt can be made water-tight at a small expense, and preserved for many years. This Slate Paint is

EXTREMELY CHEAP.

Two callons will cover a hundred square feet of shingle roof, while on tin, fron, felt, matched boards, or any smooth surface, from two quarts to one gallon are required to 100 square feet of surface; and aithough the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition,

therefore it neither cracks in winter, nor runs in summer.
On accayed shingres it fills up the holes and pores, and
gives a new, substantial roof that will last for years. CURLED
or WARFED shimides it brings to their places, and keep
them there. It fills up all holes in Fit 100ds, stops the leaks,
and, although a slow dryer, rain does not affect it a few
hours after applying. As nearly all paints that are black
c ntain TAR, be ware you obtain our GENUINE article, which
(for shingle roofs) is

CHOCOLATE COLOR.

when first applied, changing in about a month to a unifoliate color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate Paint ever intro-duced, that will effectually prevent dampness from pene-trating and discoloring the plaster.

These paints are also largely used on outhouses and fences, or as a priming coat on the buildings.

Our only colors are Chocolate, Red, Bright Red, and Orange.

NEW YORK CASH PRICE-LIST.

We have in stock, of our own manufacture, roofing materials, &c., at the following low prices: -

1000 rolls extra Rubber Roofing, at 3 cents per square foot Or we will furnish Rubber Roofing, Nails, Caps, and Slate aint, for an entire new roof, at 44 cents per square foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1% cents per square

ot. 3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

300 rolls Tarred Sheathing, at ¼ cent per square foot.
200 rolls Tarred Sheathing, at ¼ cent per square foot.
1000 barrels Slate Flour, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$3.00.
5000 gallons fine Enamel l'aint, mixed ready for use, on inside or outside work, at \$2.00 per gallon. Send for sample card of colors.

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unless express charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VAHIX. Reproduced by the Heliotype Process,
I vol. quarto. Boards \$12.60.
This attractive volume abounds in suggestions to American srchitects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., Boston.

PAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. Engang-David, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented are "The Visitution," "The Holy Family "(two groups), "The Madonian of the Fish," and "The Bearing of the Cross. "Quarto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTON.

HOMES AND HOW TO MAKE THEM.

By E. C. GARDNER. Hustrated. I vol. square 12mo
JAMES R. OSGOOD & CO., BOSTON.

CHURCH AND LODGE



FURNITURE

ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUPACTURERS OF FINE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES,

WHICH COMPRISE

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble).

ROOFING SLATES. SLATE URINALS, **BLACKBOARDS** FOR SCHOOLS, &c.

Parlor Grates, Frames, and Registers ALWAYS ON HAND.

JOSEPH W. GRIGG,

No. 59 Bromfield Street, Boston.

"ZODTCHY" (BUILDER). A JOURNAL OF ARCHITECTURE, FINE ARTS, AND

ENGINEERING.

Published, since 1872, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER.

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

Each number contains from RIGHT to SIXTEEN pages of letterpress, gr. quarto, with cuts, and at least FIVE autographic chromo-lithographic plates, the titles in both Russian and French.

PROSPECTUS.

PROSPECTUS.

The "Zodtch" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Con-truction of different Buildings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &c., the Biography of Russian and Distinguished Foreign Architectur, the Discussion of Building Laws, Critical Analysis of Architectural and Artistic Publications. The "Zodtcht" publishess & Werkly Supplement Called "Leaves of the Zodtchty," which contains the current Building News, Public Competitions, Exhibitions, Proceedings of Architectural Societies, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisements, &c.

Subscription Price for Europe and the United States, \$12.59 fer Annum. Price for Advertisements: One Line, each insertion, 8 cts. For important Advertisements, a Discount of ten to thirty Per cent.
The "ZODTCHY" exchanges with all Architectural and Technical Journals.
Address,
JOURNAL "ZODTCHY,"

18 OFFICER STREET, St. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE, BOSTON,
Receive Subscriptions for the "ZODTCHY" for the United
States.

The American Architect and Building News.

THE PAPER FOR ARCHITECTS, BUILDERS, AND ALL INTERESTED IN BUILDING ENTERPRISES.

THE ONLY WEEKLY PUBLICATION OF ITS CLASS IN THE UNITED STATES.

The American Architect and Building News

IS PUBLISHED UNDER THE AUSPICES OF

THE AMERICAN INSTITUTE OF ARCHITECTS.

EVERY SATURDAY,

BY JAMES R. OSGOOD & COMPANY,

WINTHROP SQUARE, BOSTON.

BEING devoted to the Architectural and Building interests of all sections of the country, it offers special induce-

menta, AS AN ADVERTISING MEDIUM,

to Manufacturers and Dealers in Builders' Materials, as well as to Decorators and those engaged in the various branches of Interior Decoration, &c.

Each number contains editorial and contributed articles on the topics which principally interest the profession; a general review of architectural matters at home and abroad, including the whole subject of interior decoration; notices including the whole subject of Interior decoration; notices of new processes, materials, constructive or decorative expedients, and mechanical inventions applicable to building; critical notices of buildings, and of architectural and artistic publications; notes of discussions in archæology and other departments of the history of art.

A very attractive feature of the paper is the

HELIOTYPE ILLUSTRATIONS

of various Architectural Designs, accompanying each n ber, which are contributed by architects in different parts of the United States.

Another valuable feature is now added in the publication of the

PRICES OF BUILDING-MATERIALS,

the list being made up just before going to press each week. The publishers respectfully request the co-operation of those professional and business men, to whose interests it is devoted, to add to the popularity and value of the "Architect," by contributing to its columns whatever may be deemed of interest to its readers.

The American Architect and Building News

Is for sale by all respectable newsdealers, and is malled, post-paid, to subscribers, on receipt of \$6.00 per year.

JAMES R. OSGOOD & CO.,

CATHEDRAL BUILDING,

Winthrop Square, Boston.

POTTIER & STYMUS

MANUFACTURING COMPANY.

MANUFACTURING COM. A.M.
INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY,
LEXINGTON AVENUE, 41st AND 42d STREETS,
NEW YORK.

NORTH AMERICAN REVIEW,

OCTOBER, 1876.

ART. I.

THE SOUTHERN QUESTION. WILLIAM HENRY TERSOOT.

II. THE WHISKEY RING. H. V. BOYETOR.

III. VON HOLST'S HISTORY OF THE UNITED STATES. HERRY ADAMS and H. C. LODGE.

IV. AN EPISODE IN MUNICIPAL GOVERNMENT. The Shattering of the Tweed "Ring."

V. THE "INDEPENDENTS" IN THE CANVASS.

VI. CRITICAL NOTICES.

\$1 50 a Number; Yearly Subscription, \$6 00.

Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & Co., BOSTON.

Receive Subscriptions for the "ZODTCHY" for the United States.

GENERAL HARD TIMES.

Pensions procured and increased. Rounties obtained fr. m \$150, \$200, \$302 to 402 (veteran). Patents for inventors. Late Fost-masters accounts settled. Address (with stamp), w. H. GODDARD, Attorney-at-Law, Washington, D.C.

TWO PRIZE MEDALS.

woon



J. G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof,

PRICE LIST. anne prices. Liberal discount to the trade, g, and all iron work for buildings.

WILSON & JAMES,
WILSON & JAMES, State rights for patent Shutters for sale. Agents wanted.

WESTONS

DIFFERENTIAL PULLEY BLOCKS.



DOYLE'S, HALL'S, AND BIRD'S,

THE YALE LOCK MANUFACTURING COMPANY, HENRY R. TOWNE, President,

STAMFORD, CONN.

Adapted for all hoisting purposes.

ESTABLISHED 1838.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, MAHOGANY, ROSEWOOD, etc., WHITE HOLLY, THUYA,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.

SEWERGASSHUTOFF!





JENNINGS' SPECIALTIES

JENNINGS: PATENT SIX. Jennings' Patent Water Closets, envings: PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

We Manufacturer of Fine Furniture, and Importer of vare Etchings and Engravings.

No. 170 Tremont St., Boston.

KELLEY & HOLLAND,

Stained and Cut Glass Works.

Church and Ornamental Windows to Order.

Nos. 21 & 27 Pearl Street.

Boston Ornamental Iron Works





For Building IRON AND WIRE RAILING, IRON CRESTINGS, IRON STABLE FIXTURES,

FOUNTAINS,

VASES, GARDEN STATUARY.

WEATHER VANES, AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue. BUE ER & COMPANY, 118 MILE STREET, BOSTON

DEALERS in Architects' and Builders' Supplies should advertise in the American Architect

ARCHITECTS.

OFFICES OF FRANK W. WESTON, (Late Weston & RAND,
(17 Pemberion Sq. Boston,)
178 DEVONSHIRE ST., AND 33 FEDERAL ST.
BOSTON.

ARCHITECT. PERRY BUILDING, WALTER DICKSON,

CONTRACTORS & BUILDERS

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 490 HARRISON AVENUE, BOSTON.

MEAD, MASON, & CO., BUILDERS,
Steam Mill at Concord, N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and
Concord and Manchester, M.H. Churches and
Concord and M.H. Churchester, M.H. Churchester

C. ture of Stations as specialty. Estimates given.
C. ture of Stationary Wash Stands. 37 Haverhill St., Boston. Posts, Rails, Ralusters, & Office Rails, furnished to order.



Franklin Press · Rand, Avery, & Co., Boston.

CHILD-LIFE IN PICTURES. Containing Wenty-four Heliotype Plates, from Cornescono, Col LET, REVADDA, GREZE, LAWRENCE, MEDIALO, GERARI RAPHAEL, and other celebrated painters, —forming a serio of charming pietures of children and child-life. Quarte Price, \$10.00. JAMES IL OSGOOD & CO., BOSTO







A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 50.]

SATURDAY, DECEMBER 9, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, Boston, | New York. | Philadelphia.

LAWRENCE, WILDE, & CO., MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and ORDERED WORK a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOS FON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK,
QUARTYMAN, and Wholesale Dealer in
BUILDING STONE,
OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.

Sole Agent for RLIN STONE, BERLIN

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES.

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Boston.

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)
PRESSED FRONT BRICK.
MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.

Works at Saverville, on Raritan River, N.J.,

Office, NEWARE, N.J.

MINTON'S ART AND ENAMELLED

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES, T. ASPINWALL, Sole Agent,

38 MURRAY STREET, NEW YORK.

DISCOURSES ON ARCHITECTURE.—
By VIOLER LE-DUG. Translated, with an introductory Essay, by HENEY VAN BRINT, Fellow American Institute of Architects. Fully illustrated. 1vol. royal 8vo., 8s.09.

JAMES R. OSGOOD & CO., BOSTON.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fir and water. The Hydraulic Lime of Tell (France), one of the strongest cements kn.wn., is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent less than brick.

lan brick.
Fire-proof partitions, floor arches between iron bear ellings under wooden or iron beams, in the follows

ceilings under wooden or iron beams, in the following buildings:—
Western Union Telegraph, Det. and Hudson Canal Co., Statas Zeitung.
Equitable Life Assurence, Wilmab glos Asvings Bank, Westminater Hotel, Syracuse Savings Bank, Columbia College, Baltimore Saf- Depovit, Insurance on Wooden Mansards r duced ninety cents per \$100. Sidewalks laid at Lenox Library. Tribune, Peabody Museum. Sido. Sidewalks laid at Lenox Library. Tribune, &c. Hollow Bricks of all kinds. Our Fire-Proof work is the only one approved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES. NEW YORK. WAREROOMS, No. 597 BROADWAY,

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS.

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Trement Street, Boston.

Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.

Charles Whittier, Pres.

James Sturgis, Treas.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
ORNAMENTAL IRON WORK,
HOT WATER, HIGH IRON WORK,
HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.
Works, cor. Pratt and Scott Size.
New York Office, 68 Beekman Street.

JOHN H. REED & CO.

JOHN H. REED & CO.

IRON MERCHANTS,

AND AGENTS FOR BAY STATE IRON COMPANY,

Manufacturers of and Dealers in

Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig,
and Railroad Iron, Wrought Iron Girder, Channel, and

Deck Beams, Angle and T Iron, Boiler and Tank

Rivets, Lap-Welded Iron Boiler Tubes,

Wrought Iron Steam and Gas Pipe.

Offices, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-

TO BE OFERATED EITHERS' PATENT" COMBINATION ROPE ELEVATOR,
TO BE OFERATED EITHER BY STEAM OR WATER.
The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c. Oulce, Stores, ce.
27 FOUNDRY STREET, SOUTH BOSTON.
OFFICE, 243 Broadway, New York.

VEFS,
President.
Treas' rand Gun'l Manager.

OTIS TUFTS, President.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO. CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

E. H. BRABROOK,

96 and 98 Washington St., Boston.

FURNITURE & INTERIOR DECORATIONS,

MR. VICTOR CHARMOIS - Designer.

WALWORTH MANUFACTURING CO.,

VV NO. 69 KILBY STREET, BOSTON,
CONTRACTORS FOR
STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS, of most approved styles. Plans

and Estimates furnished upon application.

GAS LIGHTING APPARATUS, WROUGHT IRON
PIPE AND FITTINGS; RADIATORS,

GREEN-HOUSE APPARATUS, Etc., Etc.

ARCHER & PANCOAST MANUF. CO.,

A MANUFACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE.

67 GREEN St.; 68, 70, & 72 WOOSTER St., ABOVE BROOME, NEW YORK.

Broadway cars pass the door.

G AS FIXTURES OF EVERY DESCRIPTION. SPECIAL RATES TO BUILDERS. R. HOLLINGS & CO., 347 Washington St., BOSTON.

CALVANIZED IRON CORNICES, CHAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimney Jacks, Window Caps. &c. SMITH & VAN NOORDEN, & Harrison Avenue, Boston

A. STETSON & CO., 173 Tremont St., 6 Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Pitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimates.

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHAN'IS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS' Solid WROUGHT IRON BEAMS, and THE
"BURDER BEST" IRON, Tensile Strength 78,900 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &c. BENJ. NOYES, Agent.

CAPE ANN GRANITE COMPANY

- FurnishGRANITE, BEILLDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMON BUILDING, 40 WATER ST., BOSTON.
QUARTER ST., BOSTON.
JORAS H. FRENCH, F. VIEW, GLOCESTER, MASS.
JORAS H. FRENCH, F. VIEW, GLOCESTER, MASS.
SCOTT WEBBER, Supt.

G EO, F. BLAKE MANUFACTURING CO.,
MANUFACTURERS OF BLAKE STEAM PUMPS,
CAUSEWAY AND FRIEND STREETS, BOSTON.

BUILDERS' SUPPLIES

HAWTHORNE & TUCKER,

PLUMBERS.

PROVINCE STREET, BOSTON.

Estimates for Plumbing made, and work done in any part

MOSES MELLEN & CO. 16 Bromfield

ENAMELLED SLATE MANTELS AND SHELVES, PARLOR GRATES, ENGLISH FLOOR AND WALL TILES.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for farnishing Private and Public Buildings and Churches.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

MONS. C. J. SOYARD, formerly 12 West MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MEAR TREMONT, BOSTON.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
256 TO 270 PASSAIC STREET, NEWARE, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &c., No. 266 West 14th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure sir, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

FOR MARBLE FLOORING TILES,

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HABILTON PLACE,
Opp. Park-Street Church.
BOSTON.

WARNER BAILEY, Sign and Ornamental

GEO. DWIGHT, JR., & CO.,

PROPOSALS.

PROPOSALS FOR CONCRETE FLOORS. City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What-Cheer Building, for the concrete floor, &c., in the Sub-Basement of the New City Hall Eutlding, until 12 o'clock, M., Dec. 18, 186.

Specifications may be had on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, 40 Water Street, Boston.

Each bid must be accompanied by a bend in the sum of \$1,000, that a contract will be signed within five days of the reception of bids.

The party to whom the contract may be awarded will be required to furnish a sati-factory bond in the sum of \$2,500 for the fulfilment of the contract. The Commissioners do not bind themselves to accept the lowest or any bid.

on not bind themselves to accept the lowest or any bid,
WM. G. R. MOWRY, HENRY G. RUSSELL, WILLIAM
M. BAILEY, City Hall Commissioners.

M. BAILEY, City Hall Commissioners.

PROPOSALS FOR STEAM HEATING APPLIANCES.
—City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office. No. 5 What-Cheer Building, for the Steam Heating Appliances, for the New City Hall Building, Providence, E. L., until 12 o'clock, M., Dec. 23, 1876.

Providence, E. L., until 12 o'clock, M., Dec. 23, 1876.

Providence, E. L., until 12 o'clock, M., Dec. 23, 1876.

Providence, L., until 12 o'clock, M., Dec. 23, 1876.

Providence, L., until 12 o'clock, M., Dec. 23, 1876.

Providence, L., until 12 o'clock, M., Dec. 23, 1876.

Providence, L., until 12 o'clock, M., Dec. 23, 1876.

Providence, L., until 12 o'clock, M., Dec. 24, 1876.

Water Street, Loston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the deposit of \$30, 1876.

Water Street, Boston, on the de

QUEBEC HARBOR WORKS.
PROPOSED WORKS AT THE MOUTH OF THE
RIVER ST. CHARLES.
Tenders will be received at the office of the Quebec
Harbor Commissioners up to noon of Thursday, the first
day of February, 1877, or the construction of the following

iny of February, 1811, for the construction of the following forks:

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.

2. A wall and an embankment, forming the North Quay of the prop. sed South Wet Dock.

3. The dredging out and the formation of a channel-way sarallel to both walls.

4. The construction of cribwork at the end of the embankment mext to the Gas Works.

5. Cribwork and retaining-walls adjoining the Ballast Wharf.

ment next to the Gas works.

5 Cribwork and retaining-walls adjoining the Ballast Wharf.

8. The construction of a bridge over proposed eighty (80) feet entrance in the north wall of the South Tidal Harbor.

Plans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners and bills of quantities will be furnished to intending contractors upon making a deposit of fifty dollars, to be returned, after the tenders are opened, to parties sending in bosa fide tenders. None other than the printed form of tender issued by the Commissioners will be received.

The Commissioners will be received.

The Commissioners do not bind themselves to accept the lowest or any tender.

The contractor is to find two respectable and responsible securities, to be approved of by the Commissioners, whose names, softensees, and occupations are to be inserted in full jointly and severally in the sum of \$30,000 for the due fulfilment of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners or their Engineer and the Contractor.

Tenders for these works will not be considered unless accompanied by an accepted bank check, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer.

J. B. MARTEL, Secretary-Treasurer. HARBOR COMMISSIONERS' OFFICE, QUEBEC, 20th November, 1876,

STEAM FANS.— The Trustees of the Columbus Hospital for Insane will receive scaled proposals
until 12, M., Thursday, December 14, 1876, for the construction and erection of a system of ventilation of the Hosoital
Building, by means of Six Steam Fans and Connections.
Bids will be received for the work as follows: 1. All excavaing, brickwork, stonework, etc. 2 Six steam fans and
connections. 3. The whole in one job. Plans and specifications are now on file in the office of the architect upon
the turnished on applica ion. Bids must be scaled and directed to A. D. Royers, Esq., President of the Board of Trustees, and indorsed for such part of the work as they may be
for, and left at the architect's office upon the grounds. By
order of the Board. For further information address, T. E.
TINSLEY, Architect.

PROPOSALS FOR STATE, WAR, AND

Office of Building for State, War, and Navy Depart-ments,

Valuable Scientific Books.

CHIMNEYS FOR FURNACES.

FIREPLACES, and STEAM BOILERS. By R. ARM. STONG, C. E. 18mo, boards, 50 cents.

VENTILATION OF BUILDINGS.

By W. F. BUTLER. 18mo, boards, 50 cents

WATER AND WATER SUPPLY. By Prof. W. H. Corfield, M. A. 18mo, boards, 50 cents.

SEWERAGE AND SEWAGE UTILIZATION. By Prof. W. H. CORFIELD, M. A. 18mo, boards, 50 cents.

D. VAN NOSTRAND, Publisher, 23 Murray Street, and 27 Warren Street, New York.

* Copies sent free by mail on receipt of Price.

OSGOOD'S NEW BOOKS.

IN THE LEVANT.

By Charles Dudley Warner, author of "My Summer in a Garden," "Backlog Studies," etc. 1 vol. 12mo \$2.00.

A charming volume, describing, in Mr, Warner's most attractive style, the experiences and observations of a tour through Palestine, Syrna, Asia Minor, the Ægean Islands. Turkey, and Greece. Mr. Warner is a model traveller, seeing whatever is most noteworthy, and depicting it in the most engaging manner.

THE PARLOR CAR.

A Farce By W. D. Howells. Vest-pocket series. Cloth,

50 cents.

A delightful little dramatic piece, showing remarkable precision in the comprehension of character, and Mr. Howella's rare felicitousness of expression.

THE SKELETON IN ARMOR.

By H. W. Longfellow. Superbly illustrated by Mary A. Hallock. Beautifully bound. Cloth, \$5.00; morocco, \$10.00.

"In every respect it commands admiration as a specimen of book-making art, and we shall be surprised if it does not find exceptional favor with holiday purchasers."—Buffalo Courier.

MASS. INSTITUTE OF TECHNOLOGY.

This school offers a four-years' scientific and professional training for Chemiata. Metallurgists, Civil Mechanical, and Mining Engineers, Architects, Teachers of Science, and Manufactures.

d, and Mining Engineers, as an additional manufacturers.

THE COURSE IN ARCHITECTURE embraces, besides the nessary scientific and mathematical studies, the study of chitectural history, and the constant practice of original Seign.

Special students in Architecture are received into a two-sars' special course.

years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars andress WILLIAM R. WARR, Esq., Professor of Architecture, or Dr. SAMUEL KNEELAND, Secretary.

BOSTON, Feb. 1, 1876.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN AECHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorat-

ors, etc., if advertised in this paper, reach a large number of persons engaged in these branches of business throughout the country.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to Fire-Proof Engineer of Architects to the following specialities which hereafter will constitute the leading items of their business: Fire-Proof Filopor Floors. The only floors that have stood fire in this country.

Fire-Proof SHUITERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston architects of this country. "Minimum of metal, maximum of clinch; the best lating architects of this country." Minimum of metal, maximum of stiffness, maximum of clinch; the best lating expenses the country of the security to be certified by the United States and expenses the form of the States and the country. The understream of the security to be certified by the United States and the country. "Minimum of metal, maximum of clinch; the best lating and both on a policy of the security to be certified by the United States and the country." Minimum of metal, maximum of stiffness, maximum of clinch; the best lating country is state Department, Washington; Equilable Life Insurance Company's Buildings, and many others.

MEROPS SHUITERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston architects of this country. "Minimum of metal, maximum of clinch; the best lating the country of the security to be certified by the United States and the country. By Liexand the country of the State Department, Washington; Equilable Life Insurance Company's Buildings, and many others.

MEROPS SHUITERS. Have stood of the country of the security to be certified by the United States and the country. The understream of the security to be certified by the United States and the country. The understream of the security to be certified by the United States and the country. The understream of the security to be certified by the United States and the country. The understream of the security to be certified by the United States and the c

S.

ARM-

N.

et,

th,

BUILDING MATERIALS.		PAINTS AND OILS. Chalk
LATEST NEW YORK QUOTATIONS.	8 x 10 — 10 x 15 21 00 19 50 18 50 17 50 11 x 14 — 12 x 16 23 00 21 00 20 00 18 50 11 x 18 — 14 x 24 24 50 22 00 21 00 19 50	China clay
Dec. 8, 1876.	11 x 18 — 14 x 24 24 50 22 00 21 00 19 50 15 x 24 — 15 x 32 30 00 28 00 25 00 — 16 x 32 — 20 x 30 32 00 30 00 26 00 —	Zine, white, American, dry 61/20 71/2 Zine, white, American, in oil, pure. 111/20 12
BRICK. Cargo Afloat. Pale	22 x 30 — 15 x 38 34 00 32 00 28 00 —	Lead, white, American, dry 9 @ 9% Lead, white, American, in oil, pure. 10½@ 10%
Pale	24 x 36 — 24 x 40 40 00 36 00 32 00 —— 24 x 42 — 28 x 42 44 50 40 00 36 00 ——	Lead red American
Up-River	26 x 46 — 30 x 48 46 50 42 00 38 00 — 30 x 50 — 32 x 52 48 50 44 50 40 00 —	Litharge, American. 8 2 1 50 Ochre, French, dry (gold). — @ 1 50 Ochre, in oil (currency). 6 @ 15
Haverstraw Bay, choice	32 x 54 — 34 x 56 50 00 46 50 42 00 — 34 x 58 — 34 x 60 55 00 50 00 46 00 —	Spanish brown dry
added, \$2 per M. for Hard, and \$3 per M. for Front Brick.	36 x 60 — 40 x 60 60 00 55 00 52 00 ———————————————————————	
FRONTS.	An additional 10 per cent will be charged for all glass	Vermilion, Trieste (gold) 1 00 @ 1 10
Croton — Brown	length, and not making more than 81 united inches, will be charged in the 84 united inches bracket	Carnine, American, gold
Croton - Dark — @ 9 00 Croton - Red — @ 10 00 Philadelphia 23 00 @ 27 00	Discount to the trade, 50 and 10 @ 50 and 10 and 5 per cent.	Orange Mineral English, gold 11¼@ 11¼ Paris green, pure, dry. 25 @ 30
Trenton 21 00 @ 25 00	AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d. 4th.	Putty, pure
Baltimore	6 x 8 - 10 x 15\$10 75 \$9 75 \$9 00 \$8 25 11 x 14 - 12 x 13 11 50 10 25 9 75 8 75	Sienna, burnt. American,
CEMENT.		
Rosendale	26 x 26 - 20 x 30 15 75 14 00 12 00 10 25 25 x 30 - 24 x 30 19 75 16 75 13 50	Sienina, raw, in oil. 15 @ 25
Roman 3 50 @ 3 75 Keene's coarse 7 75 @ 8 00 Keene's fine 11 75 @ 12 00	21 x 28 — 24 x 36 20 25 17 50 14 00 — 26 x 36 — 26 x 44 22 75 20 25 15 50 —	Umber, raw in oil
Keene's fine	28 x 44 — 30 x 50 24 00 21 50 16 75 — 30 x 52 — 30 x 54 27 25 24 00 18 75 —	Black, Lamp, ordinary
Red Welsh	30 x 56 — 34 x 56 29 50 26 25 22 00 —— 34 x 58 — 34 x 60 31 50 29 50 25 00 ——	Black Paint, in oil, cans
Scotch 40 00 @ \$45 00 American 30 00 @ 40 00	36 x 60 — 40 x 60 37 00 32 50 29 50 — Above \$12 per box extra for every five inches.	PLASTER PARIS. Duty. —20 per cent, ad val. on calcined: lump, free
DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES.	Discount, 70 @ 75 per cent. Also sold at 60 @ 60 and 5 from French list.	Nova Scotia, white
2.0 x 6.0 1¼ in. \$1 00	GREENHOUSE, SKYLIGHT, AND FLOOR GLASS.	Calcined, Eastern and city4 pbl. 1 25 @ 1 50
2.6 x 6.6	Per square foot, net cash. Fluted plate \$0 22 1/2 Rough plate \$0 65	Calcined, city casting
2.8 x 6.8 1½ 1 25 — Doors, Moulded.	Fluted plate \$0 22 \(\frac{1}{2} \) Rough plate \$0 65 \$3-16 Fluted plate 30 \(\frac{1}{2} \) Rough plate 1 00 \$\(\frac{1}{2} \) Fluted plate 40 \(\frac{1}{2} \) Rough plate 1 15 \$\(\frac{1}{2} \) Rough plate 1 15 \$\(\frac{1}{2} \) Rough plate 1 30 \$\(\frac{1}{2	Purple roofing slate B square, \$7 50 @ \$8 00
Size. 1½ in. 1½ in. 1½ in. 1½ in.	78 Rough plate 30 1 % Rough plate 1 80	Green slate
2.6 x 6.6 1 87 \$2 38 2.6 x 6.8 1 92 2 40	FOREIGN WOODS. — Duty free.	City)
2.6 x 6.10 1 96 2 47 ——————————————————————————————————	Cuba	Slate tiles, 11/in., rubbed, \$\psi\$ sq. ft.
2.8 x 6.8	Mexican, large 0 81/4 @ 0 11 Florida	SOLDERS.
2.10 x 6.10		No. 1 \$—@\$0 13 No. 2 0 12½
GLAZED WINDOWS.	good	TIN PLATES. — Duty, 1 1-10c. P h. I. C. charcoal, 10 x 14. P box (cur.) \$8 25 @ \$8 50
Dimensions of Lights. 8 Lights. 4 Lights.	St. Domingo, logs, small 0 7 @ 0 10	1. C. coke, 10 x by 14
Windows, 14pl. 14ce. 14c	St. Domingo, logs, large 0 15 @ 0 25 Cuba, logs, small 0 9 @ 0 15 Cuba, logs, large 0 20 @ 0 30	I. C. charcoal, 14 x 20
27 x 4.61.45 1.52 1.64 1.67 — 1.69 1.81	Cuba, logs, large. 0 20 @ 0 30 Cuba, logs, large. 0 20 @ 0 30 Frontera, Mexican, large. 0 12 @ 0 16 Frontera, Mexican, small 0 7 @ 0 10 Other Mexican 0 6 @ 0 10	I. C. coke, terne, 14 x 20 6 50 @ 7 00
2 7 x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31		I. C. charcoal, terne, 14 x 20 7 00 億 7 50 ZINC.—Duty, sheet, 伊 唐. 2%e.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Rio Janeiro, ordinary to good Plb. 0 21/2@ 0 31/2	Sheet (gold)
2.10 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53 2.10 x 5.61.88 1.96 2.19 2.16 2.39 2.42 2.65	Rio Janeiro, good to fine 0 4 @ 0 6 Bahia, ordinary to good 0 2½@ 0 3½	Bar 0 8%
2.10 x 5.10 2.09 2.18 2.42 2.31 2.55 2.58 2.82 cc means counted checked, plowed and bored for	Bahia, andinary to good. 0 2½@ 0 3½ Bahia, good to fine. 0 3 @ 0 5 Honduras. 0 4 @ 0 5 Satinwood.	Sheet
weights. Hot-Bed Sash, Glazed	Tulipwood	Discount 10 per cent to trade.
OUTSIDE BLINDS.	Tulipwood	Duty. — Bar, 1 to 11/2c. P 1; Railroad, 70c. P 100 1;
Per lineal foot, up to 2.10 wide. \$\leftharpoonup @ \mathbf{\textit{2}} 25\$ Per lineal foot, up to 3.4 wide. @ 0 27 Per lineal foot, up to 3.4 wide. @ 0 30	LUMBER.	Boiler and Plate, 1½c. \$\psi\$ is, Sheet, Band, 10c. \$\psi\$ 100 is, Boiler and Plate, 1½c. \$\psi\$ is, Sheet, Band, Hoop and Scrool, 1½ to 1½c. \$\psi\$ is, \$7 \$\psi\$ ton; Polished Sheet, 3c. \$\psi\$ is, Galvanized, 2½c. \$\psi\$ is, Scrap Cast, \$6\$ ton; Scrap Wrought, \$\psi\$ \$\psi\$ ton — all less 10 per cent. No Bar Iron to pay a less duty than 35 per cent ad val.
Per lineal foot, up to 3.4 wide	THE, BULL 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Scrap Wrought, \$8 \$\psi\$ ton — all less 10 per cent. No Bar
Inside Blinds. Per lineal foot, 4 folds, Pine	Prine, enumion box. 16 000 18 00 18 00 Prine, common box. 16 000 18 00 Prine, common box. 16 000 18 00 Prine, tally plank, 1½, 10in., dres'd each 400 43 Prine, tally plank, 1½, 2d quality. 350 38 Prine, tally planks, 1½, culls. 250 28	
Per lineal foot, 4 folds, Pine	Pine, tally plank, 1¼, 10in., dres'd each 40@ 43 Pine, tally plank, 1½, 2d quality 35@ 38	Pig, Scotch, Gartsherrie — @ Pig, Scotch, Glengarnock 27 00@ 27 50 Pig, Scotch, Eglinton 26 00@ 26 50
Per lineal foot, 4 folds, Black Walnut @ 1 20	Pine, tally planks, 14, culls	Pig. American, No 1
WINDOW FRAMES. Up to 3.4 x 7.2, put together	Dine tally boards drossed common 25/20 27	Pig, American. Forge 19 00@ 20 00 Bar, refined, English and American.
HAIR Duty free. Cattle bushel. \$0 121/2 @ 0 18	Pine, strip boards, culls	Bar, Swedes, assorted sizes (gold) @ 100 00
Cattle	Pine, strip plank, dressed, clear 35@ 38	Bar, Swedes, ordinary size s
State, common, cargo rate B bbl. \$0 70 @ \$-	Spruce plank, 14 in. dressed. 25@ 29 Spruce plank, 2in. 35@ 38	Rar refined % to 9in wl & sa _1 to 6
State, finishing 1 00 @ Rockland, common 85 @ 90	Spruce timber	in. x ½ to lin
Rockland, finishing	Hemlock boardseach 16@ 18 Hemlock joist, 2½ x 4 15@ 18	Large rounds, 2¼ & 2¼
GLASS.	Hemlock joist, 4 x 6 40(a) 45 00	Scroll. 3 1-10@ 6 1-10
Duty Window, Polished Cylinder, and Crown, not over 10 x 15in., 246c, 47 sq. ft.; larger, and not over 16	Oak 40 00@ 50 00	Rods, % to 3-16in
over 10×15 in., $2\frac{1}{6}$ c. \mathcal{P} sq. ft.; larger, and not over 16×24 in., 4c. \mathcal{P} sq. ft.; larger, and not over 24×30 in., 6c. \mathcal{P} sq. ft.; above that, and not exceeding 24×60 in., 20c.	Maple	
37 sq. ft.; above that, and not exceeding 24 x 60in., 20c. 37 sq. ft.; all above that, 40 ct. ₱ sq. ft. On Unpolished Cylinder, Crown, and Common Window, not exceeding	Chestnut plank	THE BOSTON MARKET. Dec. 8, 1876.
10 x 15in., sq., $1\frac{1}{6}c$; over that, and not over 16 x 24, 2c.; over that, and not over 24×30 , $2\frac{1}{6}c$; all over that, 3c.	Black Walnut, %	NAILS. Builders' Hardware. P Cask.
₽ lb. FRENCH WINDOW. List of March 1, 1876.	Black Walnut counters \$\psi\$ ft. 18\overline{a}\$ 35 Cherry, good \$\psi\$ M ft. 60 00\overline{a}\$ 80 00 Whitewood, chair plank 60 00\overline{a}\$ 70 00	10d
SINGLE THICE—per box of 50ft. Sizes. 1st. 2d. 3d. 4th.	Whitewood, inch	Siff 4 13
X 8 — 7 X 9\$11 00 \$10 50 \$10 00 \$9 50 15 X 10 — 10 X 15 12 00 11 00 10 50 10 00	Whitewood, %in	AXLE PULLEYS—Steel.
16 x 14 - 12 x 16 13 50 12 50 11 50 10 75 16 x 18 - 14 x 24 14 00 13 00 12 00 11 25	Shingles, extra shaved pine, 18in. PM 9 50@ 10 00 Shingles, extra shaved pine, 16in. 8 50@ 9 50	SASH WEIGHTS P h. 11/20.
18 x 24 - 15 x 32 17 00 16 00 14 00 13 00 20 x 32 - 20 x 30 18 00 16 50 14 50 13 50	Shingles, extra sawed pine, 18in 7 00@ 8 00	SASH LINE. P h. Best hemp
21 x 30 — 15 x 38 19 50	Shingles, cypress, 24 x 7	Best linen 156.
24 x 36 - 24 x 40 23 00 20 50 18 00	Yellow pine dressed flooring W M ft. 35 00@ 45 00	DOOR BUTTS. Size — 4 × 4 5 × 5 Japanned Acorn
26 x 46 - 30 x 48 26 50 23 50 22 00	Locust posts, 8ft	Plain Bronzed Iron
30 x 50 - 32 x 52 28 00 25 50 23 00 -		
30 x 50 - 32 x 52 28 00 25 50 23 00 32 x 54 - 34 x 56 29 00 27 00 24 00 34 x 58 - 34 x 60 31 50 29 00 26 00 36 x 60 - 40 x 60 35 00 32 00 29 00	Locust posts, 10t. 29@ 34 Chestnut posts. 29@ 34 Cargo rates 10 per cent. off.	Plain Bronzed Iron 80 92 \$\mathbb{P}\$ pair. Ornamental Bronzed Heal, 3 60 4 00 \$\mathbb{P}\$ pair. [CONTINUED ON NEXT PAGE.]

THE BOSTON MARKET-Continued.

Builders' Hardware.
MORTISE LOCKS — Brass face and bolt — easy spring.
3½ to 4½ in
Factory make, plain front \$3 25 each.
Factory make, bronze front
DOOR KNOBS. P Set.
Solid glass \$ 50
Silvered glass
Nickel plated 2 00
Bronze metal 2 50
SASH FASTS.
Plain brass self looking
Plain brass, self-locking 6 50 to 7 50 Nickel plated, self-locking 4 50
Bronze metal, self-locking 5 00 to 12 00
SCREWS. P Gross,
Round head, nickel plated 1 \$2 25 \$2 90 for window beads, $1\frac{1}{2}$ in.
STORE DOOR HANDLES - with mortise latch. P Set.
Lacquered brass

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash.

For Insane Hospitals, Fire Proof Buildings, &c.



Sashes gives perfect security with a that have a prison-like appeara ed both architects and medical supel heir worth. Manufactured by

D. M. MEEKER & SON,

Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver and Composition; also Patterns a specialty.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water, BY USING

Wellington's Patent Wash-Bowl.

The use of this new and invaluable improvement preclud all possibility of overflow, by which buildings are so oft damaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary wash-bowl.

This guaranty accompanies every basin sold to our atrons:

patrons:

We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fa fit the following conditions, provided the trap is kept in running order:

The selection of selection of soap or grease or other offensive matter in the space between the inner and outer bowls.

For descriptive circulars, address.

L. S. MOORE & CO., 40 Oliver Street, Boston



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston

ENGRAVINGS FROM LANDSEER. NGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and fixs of the Artist. Twenty-four Plates, reproducing with utmost fidelity some of the most famous of Landssee's fixs, including "The Challenge." "Chillingham Red r." "The King of the Forest." "The Monarch of the ""High Life," "Low Life," "Layling Down the Law," society the Bay Mare," and others of equal beauty. Latto. Price, \$10.00.

JAMES R. OSGOOD & CO., BOSTOK.



Architects desiring information connected with our ar with us



HEADQUARTERS PARLOR

> GRATES. THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices.

MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston

Springfield Gas Machine.

ANDREW G. PAUL,

119 Court Street, Boston.

TO INTERIOR DECORATORS.

An excellent advertising Medium for your purposes is the AMERICAN ARCHITECT AND BUILDING NEWS.

ASAHEL WHEELER'S CONSTANT WHITE PAINT

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING in be shown looking much fresher than any other paint of two years.

It emits no poisonous gas like other paints while drying.

Its surface is a perfect enamel, from which any specks of dirt may easily be removed.

irt may easily be removed.

It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos by Correction of Parmediano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings." Harvard University.

This volume contains twenty-four Plates, including Parmediano's Saint Agatha, Saint Lucia, and Saint Apollonia, Two Descons, and Saint George. Of Correguio's Frescos, it includes the Madonna della Scala, Diana in a Chariot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, 81000.

JAMES R. OSGOOD & CO., Boston.

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131 133, & 135 Shawmut Avenue.

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

**TAdmirably adapted for School and Home Instruction, and very APPROPRIATE FOR THE HOLIDAYS.

WHITE'S

PROGRESSIVE ART STUDIES Just Ready;

WHITE'S Primary Drawing,

BY THE USE OF

GUIDE POINTS.

This series is a part of the cour e of WHITE'S PRO-GRESSIVE ART STUDIES, which have been received with so much favor. It is communed in 15 Cards, enclosed in an envelope; A MANUAL OF INSTRUCTIONS for the teacher, and packages of EXERCISE PAPER, containing 50 sheets each.

· Price, \$0.30 Manual Exercise Paper, per package

Samples of a set of the Cards, and the Manual, if desired or examination with a view to introduction, will be sent on eccipt of 15 cents each.

A Pronounced Success!

WHITE'S ART STUDIES.

BY GEO. G. WHITE, PROFESSIONAL ARTIST.

A thoroughly Practical System of Drawing for Schools and Private Learners, by an eminent artist.

"Mr. White has shown an ability hardly less than genius in the preparation of his Art Studies." - ATLANTIC MONTHLY.

WHITE'S PROGRESSIVE ART STUDIES are issued in the form of Cards, neatly incased in envelopes containing welve each, with an accompanying Manual of Instructions, and duplicate sheets of blank Drawing Paper.

NOW READY.

*.*We shall be pleased to send samples of the Art Studies for examination with a view to introduction, on eccipt of 30 cents each.

Send for full Descriptive Circulars containing many testi-nonials from connect teachers.

, THE EDUCATIONAL REPORTER for September, containing full particulars of our New Books, and much valuable educational information of a miscellaneous character, will be sent to teachers and educationists on application.

Ivison, Blakeman Taylor, & Co.

EDUCATIONAL PUBLISHERS,

138 and 140 Grand St., New York. 133 and 135 State St., Chicago.

R

Architects' and Engineers'

STATIONERY.

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE TRACING CLOTH.

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper.

English and French Crayon Paper,

Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston,







(ESTABLISHED 1844.)

PARLOR GRATES

H. M. CREAMER,

86 North Street, Bosto

EDWARD HIXON & CO.,

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon,

Fred. Reed,

E. Hixon, jun

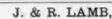
UPS AND DOWNS ON LAND AND WATER Oblong folio. \$10.00
"Turning over these pages is like gathering around a fireside to listen to the bright and entertaining stories of a friend
who has travelled and kept his eyes well open. Only Mr.
Hoppin's pencil is more clequent and witty than most men's
tongen." — Boston Journal. s pencil is more cloquent and will, "-Boston Journal.

JAMES R. OSGOOD & CO., Boston.

ART FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 plates. \$15.00.

** For sale by Booksellers. Sent postpaid, on receipt of price, by the Publishers.

JAMES R. OSGOOD & CO., Boston.



59 Carmine St., New York

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively Poinshed Brass and Sterling Silver.

Illustrated Catalogues Post Free.

ood Work | Metal & Ston 3 Work | Banners & Decoratio
10 cts. 10 cts.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially complete stock of

FINE BRONZE HARDWARE

of the latest patterns.

Bronze and Brass Hardware manufactured to order from Bronze and Bross Hardware manufactures of the rown patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WARRHAM STREET.



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Book A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

W. J. McPHERSON & CO.

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS.

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, Etc., Etc.

AGENTS.

AGENTS.

Roston.—Parsons & Torry, 638 Washingon st; Pitkin Bros.

**2 Charlestown st; Allen & Noble. 99 Hanover st; Boguana & Vinal,

**2 Dock sp; Fariesa & Boyuton, 13 Cornhill; Gardner & Chandler,

**3 Providence, R. I., — Belcher Bros. 27 Weebosset st.

Acw York City. — A. Hanmuscher & Co., 29 Bowery; B. L.

**Solomon & Sons, 639 Broadway; E. R. Kremm, 12! Essex street;

Chat. E. Kugler, 10 Division st. Speyer Bros. 10 Bowery; W. F.

Hubinger, 196 Grand st. C. A. Stock, 116 Wonster street,

**Chat. E. Kugler, 10 Division st. Speyer Bros. 10 Bowery; W. F.

Hubinger, 196 Grand st. C. A. Stock, 116 Wonster street,

Albanay.—Maurice E. Viele, 41 State st.

Roches Reer.—Pellock, Weaver, & Co., 17 Ruffalo st.

Huffalo.—C. H. Uley, 32 Pearl st.

Philadelphia.—Thomas Thompson, Sons, & Co., 246 S. 24

**Solbil, Brown, Nobilt, & Co., 222 S. 24 st.; B. L. Middleton, 87

Lauphin st.—Thomas Kuglit & Co., cor. 18 dige ave, and Green st.

Pittaburg.—Joseph Woodwell & Co., cor. 24 ave, and Wood st.

Baltimore.—C. Sidney Norris & Co., 36 Hanover st.; John Duce & Sons, 24 South Charles st. Warfield & Bohr, 62 So. Sharp st.

Cleveland, O.—George Worthington & Co., 20 Water st;

**Cleveland,

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

BOSTON.

P. TOLMAN & E. A. HUNTING,
S. BUILDERS, REAL ESTATE IMPROVERS, AND
GENERAL AGEN'S. Particular attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTICAGES NEGOTIATED. NO. 11 BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY JAMES R. OSGOOD & CO., WINTHBOP SQUARE..... Boston

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

-	-		_							
RATES OF	AD	VE	RI	PIS	I	TO				
On the first page, and pagents per line (agate), or \$1.										
sertion.					4.					
One inch, one month							0		\$7.00	
One inch, three month	в.								20.00	
One inch, nine months						0.			58.00	
One inch, one year									70.00	
On other pages, 10 cents per inch.	er	line	0 6	eac	h	ins	er	tio	n, or	\$1.40
One inch, one month			0					. !	\$5.60	

Publishers' Department.

Classified Advertisements.

The following is an alphabetical list of the advertise ments which appear in this number of the AMERICAN ABCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects nish an excellent medium for reference to are most and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to cata-

logues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a
want which has been long felt is now filled. Adver- tisers will at once appreciate the excellence and con- venience of the arrangement.
Architects' and Engineers' Stationery, &c. Wadsworth Bros. & Howland, Boston v
A. J. Bicknell & Co., New York v
ARCHITECTURAL IRON WORK. Bartlett, Robbins, & Co., Baltimore, Md i
ARCHITECTURAL SCHOOL. Mass. Institute Technology, Boston ii
ARTIFICIAL WOOD ORNAMENTS. W. B. Gleason & Co., Boston v
RRICKS.
Sayer & Fisher, Newark, N.J i Bronze Decorations.
National Fine Art Foundery, New York iv BUILDERS AND REAL ESTATE IMPROVERS.
Tolman & Hunting, Boston v
Builders' Hardware. Burditt & Williams, Boston v
BUILDERS IN IRON.
George Dwight, Jr. & Co., Springfield ii Building Stone.
Charles P. Williams, New York
CABINET FURNITURE AND UPHOLSTERY. Edward Hixon & Co., Boston
CHURCH AND HALL ORGANS
New England Organ Co., Boston v
CHURCH FURNITURE.
J. & R. Lamb, New Yorkvi Braman, Shaw, & Co., Bostonvii CRURCH ORGANS.
E. & G. G. Hook & Hastings, Boston iv
CONTRACTORS AND BUILDERS.
W. H. Warren, Boston viii Mead, Mason, & Co., Boston viii C. H. Hall, Boston viii
DESIGNING AND WOOD ENGRAVING.
W. J. Dana, Boston iv
Pale Lock Manuf's Co., Stamford, Conn viii
DRAIN PIPE.
N. E. Drain Pipe Co. Boston
ELECTRIC BELLS, ANNUNCIATORS, &c. S. W. Fuller, Boston
ELEVATORS.
Tufts' Elevator Works, Boston
ELEVATORS, STEAM ENGINES, &c. Whittier Machine Co., Bosten
The a December

N. E. Felt Roofing Co., Boston.....

FIRE-BRICK AND CHIMNEY-TOPS.

	T
Fire-Proof Building Co., New York i	
FURNITURE AND DECORATION. E. H. Brabrooki	-
E. H. Brabrook. i Roeth & May, Boston v Lawrence, Wilde, & Co., Boston i	
FURNITURE, WOOD MANTLES, &c. C. J. Soyard, Boston ii	1
FRESCO PAINTERS. W. J. McPherson, Boston	l
W. J. McPherson, Boston. ii Philip A. Butler, Boston. ii Wallburg & Sherry, Boston. ii L. Haberstroh, Boston. ii	-
William S. Brazer, Boston il	1
R. Hollings & Co., Boston	1
S. A. Stetson & Co., Boston	
GAS MACHINES.	
Andrew G. Paul, Bostonvii INTERIOR WOOD-WORK, DECORATIONS, &C. Pottier & Stymus Manufacturing Co., New York. iii	1
IRON BRIDGES. King Iron Bridge and Manu'f. Co., Cleveland, O i	
IRON CORNICES. Smith & Van Noorden, Boston	
IBON MERCHANTS. John H. Reed & Co., Boston	1
IRON WORK FOR BUILDINGS.	
J. B. & J. M. Cornell, New York 1 LINEN HOSE.	
New England Linen Hose Manuf'g Co., Boston. i MARBLE FLOORING TILES.	1
George Barney, Swanton, Vt	j
J. L. Mott, New York vii	1
ORNAMENTAL AND CUT GLASS. J. Cartisser, New York ii	1
ORNAMENTAL BRONZES. Mitchell, Vance & Co., New York	
Mitchell, Vance & Co., New York	
Bubier & Co., Bostonviii Bartlett, Robbins & Co., Baltimorei	1
PAINT. Asahel Wheeler, Bostoniv	1
Paper Hangings. H. B. Jones & Co., Bostonii	1
PARLOR GRATES. H. M. Creamer, Boston v	1
Parlor Grates, Brass Fenders and Irons, &c. Murdock Parlor Grate Co., Boston	1
Plumbers.	
Hawthorne & Tucker, Boston ii Plumbers' Supplies.	-
Jennings' Sanitary Depot, New Yorkviii ROOFING PLATES AND METALS.	-
Fuller, Dana, & Fitz, Boston i Scientific Books.	
D. Van Nostrand ii	1
SHUTTERS (ROLLING WOOD). Wilson & James, New Yorkviii	
SHUTTERS (STEEL). Clark & Co., New Yorkviii Wilson & James, New Yorkviii	7 8
SIGN AND ORNAMENTAL PAINTERS.	100
Warner Bailey, Boston ii SKYLIGHTS.	
The Hayes Patent, New York viii Smith & Van Noorden, Boston i	-
SLATE MANTELS, &c. vii J. W. Grigg, Bostonvii ii	1
SLATE PAINT.	
New York Slate Paint Co., New York vii Spring Hinges.	4
Am. Spring Butt Co., New York iv	
Falck & Schwabe, Boston	90 0
STEAM HEATING APPARATUS.	- CO
Le Bosquet Bros., Boston	0
STEAM PUMPS. Geo. F. Blake Manufacturing Co., Boston 1	-
STONE DRESSING WORKS. George Brown, Newark, N.J	
TILES.	1
T. Aspinwall, New York	1
Palmer, Parker, & Co., Boston viii	1
W. H. Kimball, Boston ii	-
WHITE'S ART STUDIES. Ivison, Blakeman, Taylor, & Coiv	-
WINDOW SASHES. D. M. Meeker & Son's, Newark, N.J iv	1
WELLINGTON'S PATENT WASH-BOWL. L. S. Moore & Co., Boston	
Wood Carpeting, &c. The National Wood Manuf'g Co., New York v	1

Heliotypes and Books for the Holidays.

During the holiday season, Messas. James R. Osgood & Co. will occupy the capacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will embrace all the choice works published by Messra. Osgood and Co. during the past three years, including engrav-

brace all the choice works published by Messra, Osgood and Co. during the past three years, including engravings from the paintings of the most eminent modern artists, and the most renowned ancient masters, represented in the "Gray Collection" at Harvard College, This exhibition will afford a most excellent opportunity for the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Messrs. Osgood & Co. besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skeleton in Armor," by Longfellow, superbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of theyear; superior in some respects to "Mabel Martin," and "The Hanging of the Crane." The works of Tennyson, Longfellow, Emerson, Whittier, Holmes, Lovell, and numerous other American authors, will be presented in great variety and attractiveness. Amog the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres." by Boyesen; "Three Centuries of Song," edited by Whitter; "Fowers and Thorn," "Tales of Two Hemispheres." by Boyesen; "Three Centuries of Song," edited by Whitter; "Fower and Thorn," "Tales of Two Hemispheres." by Hosk Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 387 Washington Street, Boston, will be a very attractive resort during the next four weeks.

A New Volume of Poetry.

A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume
of poetry, entitled "That New World, and Other
Poems," by Mrs. S. M. B. PIATT, author of "A Woman's Poems," and "A Voyage to the Fortunate Isles." man's Poems," and "A Voyage to the Fortunate Isles." I vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World," — which is also the special title of the leading poem, — is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

Tales of Two Hemispheres.

James R Osgood & Co. have published in the "Saunterer's Series," a new work by H. H. Boyesen, the popular Norwegian author, under the above title. It contains six charming stories, on Old and New World subjects, which are told with remarkable grace and attractiveness. Speaking of the leading story, "The Man who lost his Name," the New York Erening Post said: "Its author has done other work as clever as this, but nothing that we can recall which has shown so much strength." I vol. 8vo, \$1.25.

"Flower and Thorn."

In Mr. T. B. Aldrich's charming new volume of poems just published by James R. Osgood & Co., are included most of the poems the author has writen since 1865, several of which have not before been printed. They merit in higher degree than "Cloth of Gold;" the description given of that collection by the "International Gazette," as "poems in which great delicacy of thought is combined with a felicitous choice of language."

The Kittredge Cornice and Ornament Co.,

Of Salem, O., has published "The Compendium of Sheet-Metal Work," which is profusely illustrated with designs of the goods manufactured by them. The book comprises more than five hundred pages, and gives prices, rules, and directions for estimates, items of cost of their various ornaments, &c. The Compendium is a very convenient publication for those who desire to use the materials made by the Kittredge Cornice and Ornament Co.

Heliotype Art-Works.

James R. Osgood & Co. announce the following Heliotype Art Works for November and December; each containing 24 full-page Heliotypes, with descriptive letter-press. Large 4to. Tastefully bound. Price of each, \$10.00.

liotype Art Works for containing 24 full-page Heliotypes, while the press. Large 4to. Tastefully bound. Price of each, \$10.00.

I. Gems of the Dresden Gallery. II. Gems of the Gray Collections of Engravings at Harvard College. III. The Ititian Gallery. IV. Gallery of Famous Artists. V. Gallery of Famous Beautics.

The large variety of their pictorial attractions, the number of eminent artists represented (many of them by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the engravings, not only in their general features but in their utmost detail and expression, make these volumes especially valuable to art-lovers; and the sumptuous style in which the volumes are brought out will render them almost irresistible to those who delight in beautiful books. The holiday season will have few volumes so attractive or so suitable for gifts.

376

and

rav-

dern

pre-

lege, inity is of able ever

dard

le-ive of



SLOP HOPPER is the neatest and mest useful article that can be devised for what it is intended: it can be placed in the yard, in the washroom, or in the kitchen, as it is trapped, and no trapped, and no ameil can come from the sewer, and the Basket or Receiver can be removed to carry away the rubbish. Manufactured at

J. L. MOTT IRON WORKS, New York.

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by using our

Patent Slate Paint,

MIXED READY FOR USE.

Fire-proof, Water-Proof, Durable, Eco-nomical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this state, be made to last from twenty to twenty-five years. Old roofs can be patched and coated, looking much better, and lasting longer than new shingles without the state, for

One-Third the Cost of Re-shingling

The expense of slating new shingles is only about the cost of simply laying teem. The paint is FIRE-PROOF against sparks or flying embers, as may be easily tested by any one

IT STOPS EVERY LEAK,

and for tin or Iron has no equal, as it expands by heat, con-racts by cold, and NEVER CRACKS nor scales. Roofs cov-red with Tar Sheathing Felt can be made water-tight at a mail expense, and preserved for many years. This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on tin, iron, felt, matched boards, or any smooth surface, from two quarts to one gallon are required to 100 square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition

therefore it neither cracks in winter, nor runs in summer.

On decayed siningies it fills up the holes and pores, and gives a new, substantial roof that will last for years. CURLED or WARED shinkles it brings to their places, and keeps them there. It fills up all holes in felt roofs, stops the leaks, and, although a slow dryer, rain does not affect it a few hours after applying. As nearly all paints that are black contain TAR, be sure you obtain our GENLINE article, which (for shingle roofs) is

CHOCOLATE COLOR,

when first applied, changing in about a month to a uniform state color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate Paint ever intro-duced, that will effectually prevent dampness from pene-trating and discoloring the plaster.

These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.

Our only colors are Chocollate, RED, BRIGHT RED, and

NEW YORK CASH PRICE-LIST.

10	40	keg	nd b		 	 	 			 					
20	68	half	barr	al.	 	 	 	••	 	 			-	 	.10
40	48	one b	arre	i	 	 	 		 						.31

rials, &c., at the following low prices: —

1000 rolls extra Rubber Roofing, at 3 cents per square foot. Or we will furnish Rubber Roofing, Nalis, Caps, and Slate "aint, for an entire new roof, at 44 cents per square foot. 2006 rolls 2-ply Tarred Roofing Felt, at 1% cents per square

oot. 3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

foot.
200 rolls Tarred Sheathing, at % cont per square foot.
1000 barrels Slate Fiour, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$3.00.
500 gallons fine Ename! I raint, mixed ready for use, on in-ide or outside work, at \$2.00 per gallon. Send for sample earl of colors.

All orders must be accompanied with the money or astis-factory city references. No goods shipped C. O. D., unless express charges are guaranteed. Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK.

CHURCH AND LODGE



FURNITURE

MANUFACTURED FROM

ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUFACTURERS OF FUNE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES,

WHICH COMPRISE

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble).

ROOFING JLATES, SLATE URINALS, **BLACKBOARDS** FOR SCHOOLS, &c.

A LARGE STOCK OF

Parlor Grates, Frames, and Registers

ALWAYS ON HAND.

JOSEPH W. GRIGG,

No. 59 Bromfield Street, Boston.

"ZODTCHY" (BUILDER).

A JOURNAL OF ARCHITECTURE, FINE ARTS, AND ENGINEERING,

Published, since 1873, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

Each number contains from Eight to Sixteen pages of letterpress, gr. quarto, with cuts, and at least five autographic chrono-lithographic plates, the titles in both Russian and French.

PROSPECTUS.

PROSPECTUS.

The "ZODTCHY" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Construction of different Buildings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &c., the Biography of Russian and Distinguished Foreign Architects, the Discussion of Building Laws, Critical Analysis of Architectural and Artisite Publications. The "ZODTCHY" publishess WEEKLY SUPPLEMENT called "Leaves of the Zodicthy," which contains the current Building News, Public Competitions, Exhibitions, Proceedings of Architectural Soc.eties, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisements, &c.

SUBSCRIPTION FINCE FOR ELEOFE AND THE UNITED STATES.

SUBSCRIPTION PRICE FOR EUROPE AND THE UNITED STATES, \$12.59 PER ANNUM.

Price for Advertisements: One Line, each insertion, 8 cts.
For important Advertisements, a Discount of ten to thirty For important agvernments, a control of the percent.

The "ZODTCHY" exchanges with all Architectural and Technical Journals.

Address,

JOURNAL "ZODTCHY,"

18 OFFICER STREET, St. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

WINTHEOF SQUARE, BOSTON,
Receive Subscriptions for the "ZODTCHY" for the United
States.

SUPERB HELIOTYPE BOOKS.

THE Heliotype process reproduces engravings with faultless accuracy, and with a delicacy which frequently secures a more pleasing effect than the original engraving itself. These Heliotypes are not cheap or imperfect imitations, but absolutely exact copies; and, being printed in ink, they are permanent.

The following Heliotype Books commend themselves to all art-lovers, and are peculiarly suitable for Gifts:—

GEMS OF THE DRESDEN GALLERY.

mprising the most Famous and Popular Works in the Dresden Collection, reproduced in Heliotype from the best Engravings. With Notices of the Works and the Artists. 24 Heliotypes. 1 vol. large 4to, \$10.

4to, \$10.

CONTENTS.—The Sistine Madonna, by Raphael—
The Madonna of the Meyer Family, by Holbein.—The
Reading Magdalen, La Notte, and St. George, by
Corregio.—Titian's Daughter, by Titian.—Palma's
Daughters, by Palma Vecchio.—"Quos Ego," by
Rubens.—Ecce Homo, and Venus and Child, by Guldo
Reni.—Susanna and the Elders, by Paolo Veronese.—
The Fruit-Sellers, by Murillo.—Rembrandt and his
Wife, by Rembrandt.—Saint Cecilia, and Christ, by
Carlo Dolce.—The Genius of Fame, by Caracci.—The
Card-Players, by Caravaggio.—The Writing-Master, by
Dow.—Ryckaert, by Van Dyck.—The Cemetery, by
Ruysdael.—The Smithy, by Wouvermans.—Diogenes,
by Ribera.—The Ford, by Berghem.—Netscher and
his Wife, by Netscher.

GEMS OF THE GRAY COLLECTION.

GEMS OF THE GRAY COLLECTION.

A Series of Twenty-four Choice Engravings, reproduced in Heliotype from the Originals in the Gray Collection of Engravings, Harvard University. With full Historical and Descriptive Letterpress. I vol. large 4to, elegantly stamped, \$10. CONTENTS.— The Transfiguration, and Galatea, by Raphael.—The Last Supper, and the Combat for the Standard, by Leonardo da Vinci.—Il Giorno, and St. Catherine, by Correggio.—Aurora, and Doctors of the Church, by Guido.—The Triumph of Bacchus, by Caracci.—The Last Communion of St. Jerome, by Domenichino. Cervantes, by Velasquez.—The Immaculate Conception, by Murillo.—The Lion Hunt, by Rubens.—Christ crowned with Thorns, by Van Dyck.
—The Knight of Death, by Dürer.—David and Saul, by Van Leyden.—The Burgomaster Six. and The Mill, by Rembrandt.—The Burgomaster Six. and The Mill, by Rembrandt.—The Three Fates, by Michael Angelo.—Belisarius, by Salvata Rosa.—The Rat-Catcher, by Visscher.—The Sudarium, by Mellan.—The Embarkation for Cythera, by Watteau.—The Distressed Poet, by Hogarth.

GALLERY OF GREAT ARTISTS.

A Series of Portraits engraved on Steel, by Eminent Engravers, reproduced in Heliotype. With Biographical and Descriptive Letterpress. Containing Portraits of Leonardo da Vinci, Raphael, Michael Angelo, Correggio, Titian, Caracci, Guido Reni, Velasquez, Murillo, Salvator Rosa, Poussin, Greuze, Claude, Dürer, Holbein, Rembrandt, Rubens, Van Dyck, Hogarth, Reynolds, Landseer, Turner, Copley, Stuart. 1 vol. large 4to, elegantly stamped, \$10.

THE TITIAN GALLERY.

Twenty-four of the finest and most popular of Titian's Pictures. With full account of the Artist and his Works. I vol. large 4to, elegantly stamped, \$10. CONTENTS.—Titian.—Titian's Daughter.—Titian's Mistress.—Pietro Aretino.—Isabella D'Este.—Francis I.—Charles V.—Danaë.—Flora.—Laccoën.—Sophonisba.—Three Stages of Life.—Venus and Cupid.—Venus Sleeping.—Venus and the Miror.—The Assumption.—The Entombment.—The Great Holy Family.—The Martyrdom of St. Peter.—St. Jerome in the Desert.—The Supper at Emmaus.—The Tribute Money.—The Madonna and Angels.—Magdalen.

s Those Heliotype volumes are of the same general style with the Landseer Engravings, Toschi's Engrav-ings, Raphael Studies, and Child Life in Pictures, which have proved so acceptable to the public.

JAMES R. OSGOOD & Co., Boston

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN. Reproduced by the Heliotype Process.
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., Boston.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. M. EMERIC-DAVID, member of the Institute of France. This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represents, "The Madonna of the Fish," Holy Family" (two groups, "The Madonna of the Fish," and "The Bearing of the Cross." Quarto. Price, \$16.00.

MEDIÆVAL FOLIAGE. By J. K. Col-

GENERAL HARD TIMES.

Pensions procured and increased. Bounties obtained from \$150, 8200, 3202 to 462 (veteran). Patents for inventors. Late Post-masters' accounts settled. Address (with stamp).

W. H. GODDARD, Attorney-at-Law, Washington, D.C.

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

IMPROVED Rolling Steel Shuiters,

Fire and Burglar Proof,

PRICE LIST. same prices. Liber 1 discount to the trade.

g, and all iron work for building.

WILSON & JAMES,

68 Beekman Street, New

State rights for patent Shutters for sale. Agents wanted.

WESTON'S

DIFFERENTIAL PULLEY BLOCKS.



DOYLE'S, HALL'S, AND BIRD'S,

THE YALE LOCK MANUFACTURING COMPANY. HENRY R. TOWNE, President,

STAMFORD CONN.

Adapted for all hoisting purposes.

ESTABLISHED 1888.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., WHITE HOLLY, MAHOGANY, THUYA,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CARINET, FIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbour



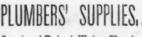
SEWERGASSHUTOFF!





JENNINGS' SPECIALTIES

IN ALL KINDS



JENNINGS: PATENT SIX. JOHNINGS PATENT WATER CLOSETS, JENNINGS: PATENT PERSON URINAL TO DISINFECTOR.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES.

Contractor for Tile Work in Dwellings and

Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

We Manufacturer of Fine Furniture, and Importer of vare
Etchings and Engravings.
No. 170 Tremont St., Boston.

KELLEY & HOLLAND,

Stained and Cut Glass Works.

Church and Ornamental Windows to Order.

Nos. 21 & 27 Pearl Street, Boston.

Boston Ornamental Iron Works

WROUGHT AND CAST IRON

For Building TRON AND WIRE RAILING. IRON CRESTINGS. IRON STABLE FIXTURES,

> FOUNTAINS. VASES,

GARDEN STATUARY.

WEATHER VANES.

AND

BUILDERS' HARDWARE. Estimates given on all kinds of

Iron Work. Send Stamp for Catalogue.

BUBIER & COMPANY, 118 MILK STREET, BOSTON.

DEALERS in Architects' and Builders' Supplies should advertise in the AMERICAN ARCHITECT

ARCHITECTS.

OFFICES OF FRANK W. WESTON,
(Late Weston & Rand,
(Lif Penderton Sq. Boston,)
ARCHITECT,
LIS DEVONSHIRE ST., AND 33 FEDERAL ST.
BOSTON,

WALTER ARCHITECT. PERRY DICKSON, Albany, N. Y. BUILDING,

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
Nos. 488 & 490 HARRISON AVENUE, BOSTO

Nos. 488 & 400 HARRISON AVENUE, BOSTON.

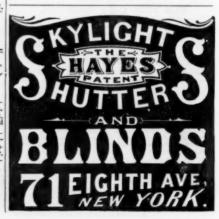
MEAD, MASON, & CO., BUILDERS.
Steam Mill at Concord. N. H. Offices, 10 Canal Street,
Boston, and Concord and Manchester, N.H. Churches and

C. 11. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverhill St., Boston. Posts, Kails, Balusters, & Office Rails, furnished to order.



Franklin Press . Rand, Avery, & Co., Boston.

CHILD-LIFE IN PICTURES. Containing twenty-four lichotype Plates, from Corleggio, Corler, Reynolds, Greuze, Lawerner, Murillo, Gerard, Raphael, and other celebrated painters, -forming a series of charming pictures of children and child-life. Quarto, Price, \$10.00. JAMES R. OSGOOD & CO., Bostow.



muc 42



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 51.7

SATURDAY, DECEMBER 16, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | New York. | Philadelphia.

LAWRENCE, WILDE, & CO.,

MANUFACTURERS OF FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and ORDERED WORK a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE

Seamless woven, and able to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.
—Send for Circulars.—
ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

s.

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BERKA QUARRIES.
Sole Agent for
BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES.

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN UST.

S. W. FULLER, 63 Devonshire Street, Boston

SAYER & FISHER. MANUFACTURERS OF LIGHT COLORED (Buff to White

PRESSED FRONT BRICK.

PRESSED FRONT BRICK.

MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.

Works at Sayerville, on Raritan River, N.J., Office, NEWARK, N.J.

MINTON'S ART AND ENAMELLED

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES, T. ASPINWALL, Sole Agent,

38 MURRAY STREET, NEW YORK.

DISCOURSES ON ARCHITECTURE.—
By VIOLLET-LE-DUC. Translated, with an Introductory Essay, by Hanky Van Brunt, Fellow American Institute of Architects. Fully illustrated. I vol. royal 8vo. 88,00.
JAMES R. OSGOOD & CO., BOSTON.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, uniting strength, and resistance to fir; and water. The Hydraulic Lime of Tell (France), one of the strongest cements knuwn, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent lass than brick.

Fire-proof partitions floor arches between trop bears.

re-proof partitions, floor arches between iron beings under wooden or iron beams, in the follow

Western Union Telegraph, Det. and Hudson Canal Co., Equitable Life Assurance, Wil'msb glas Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Wilmsb graph Battimore Safe Deposit, Insurance on Wooden Mansards r duced ninety centis per \$100. Sidewalks laid at Lenox Library, Tribune, &c. Holow Bricks of all kinds. Our Fire-Froot work is the only one approved by the New York Board of Fire Underweiters, and the Superintendent of Buildings, after severe public tests.

Office, Ill Broadway, N.Y.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WAREROOMS, No. 597 BROADWAY, NEW

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS,

STEAM ENGINES. BOILERS. AND MACHINERY.

No. 1176 Tremont Street, Boston. Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.
CHARLES WHITTIER, Pres. JAMES STURGIS, Treas.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
ORNAMENTAL IRON WORK,
GALVANIZED HON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.
Works, cor. Pratt and Scott Sis.,
BALTINORE. MD.

BALTINORE. MD.

Office 24 Light St.

OFF. Pratt and Scott Sis., Office 24
BALTIMORE, MD.
NEW YORK OFFICE, 68 Beekman Street.

JOHN H. REED & CO.

IRON MERCHANTS

IRON MERCHANTS,
AND AGENTS FOR BAY STATE IRON COMPANY,
Manufacturers of and Dealers in
Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig,
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Ancle and T Iron, Boiler and Tank
Rivets, Lap-Welded Iron Boiler Tubes,
Wrought Iron Steam and Gas Pipe.
OFFICER 2, PEMBERTON, SOLARE, ROSTON, MASS.

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-

ANUFACTURERS OF "TUFTS" PATENT" COM
NATION ROPE ELEVATOR,
TO BE OPERATED EITHER BY STEAM OR WATER.
IS ONly safe and reliable machine made for Passenger
Public Buildings and Hotels, and for business purpose
areliouses, Stores, &c.
37 FOUNDRY STREET, SOUTH BOSTON.
OFFICE, 243 Broadway, New York.
IS TOFFI.
L. A. BIGBLOW.

OTIS TUPTS, President.

L. A. Bignlow, Treas'r and Gen'i Manager

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

E. H. BRABROOK,

96 and 98 Washington St., Boston.

FURNITURE & INTERIOR DECORATIONS.

MR. VICTOR CHARMOIS - Designer.

WALWORTH MANUFACTURING CO.,

Contractors for STEAM AND HOT WATER WARMING AND VEN-TILATING APPARATUS, of most approved styles. Plans nd Estimates furnished upon application

GAS LIGHTING APPARATUS, WROUGHT IRON PIPE AND FITTINGS; RADIATORS, GREEN-HOUSE APPARATUS, Etc., Etc.

ARCHER & PANCOAST MANUF. CO.,

MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE.

67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOME, NEW YORK.

83° Broadway cars pass the door.

GAS FIXTURES OF EVERY DESCRIPTION.
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington 8t., BOSTON.

GALVANIZED IRON CORNICES, Campbell's Patent Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, 387 Harrison Avenue, Boston.

A. STETSON & CO., 173 Tremont St., • Boston, GAS FITTERS. GILT, BRONZE, AND GLASS CHANDELIERS. Gas Pipe, and Fitting in sili its Branches. Architects, Contractors, and Builders furnished

FULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
IRON MILLS Solid WROUGHT IRON ISLAMS, and THE
"BURDER BEST" IRON, Tensile Strength 78,900 lbs.

NEW ENGLAND DRAIN PIPE COMPA-NY, 24 HAWLEY STREET, BOSTON. GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &G. BENJ. NOYES, Agent.

CAPE ANN GRANITE COMPANY

CAPE ANN GIGANITE COMPANY
GRANITE, BUILDING, AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BONTON.
QUARTIES: BAY VIEW, GLOCKETER, MASS.
JOHAB H. FRENCH, Pres. H. H. BENNETT, Tress.
SCOTT WEBBER, Supl.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM CAUSEWAY AND FRIEND STREETS, BOST

BUILDERS' SUPPLIES

HAWTHORNE & TUCKER,

PLUMBERS.

PROVINCE STREET, BOSTON.

Estimates for Plumbing made, and work done in any part of the United States or Provinces.

MOSES MELLEN & CO. 16 Bromfield

ENAMELLED SLATE MANTELS AND SHELVES, PARLOR GRATES, ENGLISH FLOOR AND WALL TILES.

M. W. PEIRCE & CO.,
STEAN, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BONTON.
Lowest Estimates for furnishing Private and Public Buildings and Churches.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, I7 Central Street, Boston.

MONS. C. J. SOYARD, formerly 12 West Mantels, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MEAR TERMONT, BOSTON.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of
PAPER HANGINGS.
612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
264 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every description promptly and accuracely furnished.

J. CARTISSER, (ESTABLISHED 1858), ORNAMENTAL EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RALLRUAD CARS, OFFICES, &C., No. 256 West Hth St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and adapted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

FOR MARBLE FLOORING TILES,

FRESCO PAINTERS

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

NO. 17 PEMBERTON SQUARE.

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
No. 12 SCHOOL STREET, BOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church.
BOSTON.

WARNER BAILEY, Sign and Ornamental

GEO. DWIGHT, JR., & CO.,

PROPOSALS.

NOTICE TO CONTRACTORS.

Proposals for Furnishing the City of Boston with Granite Edgestones. Scaled Proposals will be received at the office of the Superintendent of Strees, City Hall, Boston, unit Thursday, Dec. 21, 1876, 12 o'clock M., for supplying the City of Boston with fifty thousand lineal feet of manife edge stones, to be delivered in about equal monthly quantitie between the first day of May and the first day of November 1877.

or between the first day of May and the first day of November, between the first day of May and the first day of November, 1877.

The stones to be seven inches in width on top, not less than six feet in length, and of uniform depth not less than twenty inches; to be straight lined, without w.md.; nd free from bunches or depressions. To be peen-hammered on top and three inches on back; the top edges and surface to be true to tilne and straight edged. The front to be pointed, and the ends square and jointed the entire depth of the stone. Each and every stone to be equal, both as regards quality and finish, to the sample on exhibition in the office of the Superintedness state the price per lineal foot, delivered on such streets in the city proper, South Boston, East Boston, Roxbury, Dorchester, West Roxbury, Brighton, and Charles town, as may be designated from time to time by the Superintendent of Streets.

Separate proposals will be received for stones delivered in each of the above acctions.

perintendent of Streets.
Separate proposals will be received for stones delivered in each of the above sections.
The successful bidder will be required to give bonds with sureties satisfactory to the Committee on Paving, for the faithful performance of the contract.
The right is reserved to reject any or all proposals. Proposals to be informed "Proposals for Educationes," and addressed to the CHAIRMAN COMMITTEE ON PAVING.

PROPOSALS FOR STEAM HEATING APPLIANCES.

APPARATUS AND VENTILATING APPLIANCES.—City of Providence. Scaled proposals will be received by he City Hall Commissioners, at their office, No. 5 What-heer Building, for the Steam Heading Apparatus and Jentilating Appliances, for the New City Hail Building, rovidence, R.I., until 12 o'clack, m. Dec. 23, 1871.

Plans, specifications, and form of proposal, will be furished bong fide bidders on application to the Commissionished bong fide bidders on application to the Commissionished bong fide bidders on application to the Commissionished bong fide bidders on application to the Commission of St. Ook, that a contract will be signed within five days of the acceptance of a bid.

The party to whom the contract may be awarded will be equired to furmish a satisfactory bond in the sum of \$10,000 or the fulfilment of the contract, which bond shall itso remain in force two years after the last payment shall be disc. The Commissioners do not blind themselves to accept the owest or any bid.

lowest or any bid.
WM. G R. MOWRY, HENRY G. RUSSELL, WILLIAM
M. BAILEY, City Hall Commissioners.

QUEBEC HARBOR WORKS.
PROPOSED WORKS AT THE MOUTH OF THE
RIVER ST. CHARLES.
Tenders will be received at the office of the Quebec
Harbor Commissioners up to noon of Thursday, the first
day of Fobruary, 1877, for the construction of the following

Norks:

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.

2. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.

3. The dredging out and the formation of a channel-way parallel to both walls.

4. The construction of cribwork at the end of the embankment next to the Gas Works.

5. Cribwork and retaining walls adjoining the Ballast M. E. The construction of a bridge walls.

5 Cribwork and retaining-walls adjoining the Ballass Wharf.
6. The construction of a bridge over proposed eighty (80) eet entrance in the north wall of the South Tidal Harbor. Plans, specifications, bills of quantities, and form of ender, can be seen at the office of the Commissioners laring office hours; and printed copies of the specifications and bills of quantities will be farmished to intending contractors upon making a deposit of fifty dollars, to be returned, after the tenders are opened, to parties sending in owns fide ienders.
None other than the printed form of tender issued by the commissioners will be received.
The Commissioners do not bind themselves to accept the overst or say tender.

None other than the preserved.

None other than the preserved.

The Commissioners will be received.

The Commissioners do not bind themselves to accept the content of the

HARBOR COMMISSIONERS' OFFICE, { QUEBEC, 20th November, 1876,

PROPOSALS FOR STATE, WAR, AND NAVY DEPARTMENTS.

Office of Building for State, War, and Navy Depart-

No. 2100 PENNSTLVANIA AVENUE, WASHINGTON, D.C., Nov. 21, 1876.

No. 2100 PENNEYLYME ATENDER.

WASHINGTON, D.C., Nov. 21, 1876.

Sealed proposals will be received at this office until 12, M. A. 18mo, boards, 50 cents.

Of the 21st day of December. 1875, for furnishing, deliverin, fitting and string in place, the wrought and cast iron work, as exhibited by the drawing, described in the specifications, called for in the schedules, and required for the roofs of the vocurisms of the cast Wing of Building for State, War, and School for the days of the drawings, described in the specifications, called for in the schedules, and required for the roofs of the vocurisms of the feath was exhibited by the drawing, described in the specifications, and schedules can be reflected by the drawing, described in the specifications, and schedules can be had on applie viton to this office.

FIRE-PROOF ROOFS. The only floors that have stood fire in this country.

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance Company's Building at Boston.

FIRE-PROOF AUHITERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston architects of this country, "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb architects of this country, "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb arms of stiffness, maximum of climb; the best lamb arms of stiffness, maximum of climb; the best lamb arms of stiffness, maximum of climb; the best lamb arms of stiffness, maximum of climb; the best lamb arms of stiffness, maximum of climb; the best lamb arms of the country. "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb arms of the country, "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb arms of the country, "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb arms of the country, "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb are country in the country, "Minimum of unetal, maximum of stiffness, maximum of climb; the best lamb are country in the country

PROPOSALS.

PROPOSALS FOR CONCRETE FLOORS by the City of Providence. Sealed proposals will be received by the City Hall Commissioners, at their office, No. 5 What Cheer Building, for the concrete floor, &c., in the Sub-liasement of the New City Hall Building, until 12 o'clock, M., Specifications may be had on acadiactic.

Dec. 18, 1-76.

Specifications may be had on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, 40 Micros as above, or to the Architect, S. J. F. Thayer, 40 Micros as above, or to the Architect, S. J. F. Thayer, 40 Micros as a bound of the sum of \$1,000. that a contract will be signed within five days of the reception of bids.

reception of bids.

The party to whom the contract may be awarded will be required to furnish a sati-factory bond in the sum of \$2,500 for the fulfilm not the contract. The Commissioners do not bind themselves to accept the lowest or any bid.

W.M. G. R. MOWRY, HENRY G. RUSSELL, WILLIAM M. BAILEY, City Hall Commissioners.

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 483 & 490 HABRISON AVENUE, BOSTON

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord N. H. Offices, le Canal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverbid St., Roston. Posts, Rails, Balusters, & Office Rails, furnished to order.

ARCHITECTS.

OFFICES OF FRANK W. WESTON, 17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 23 FEDERAL ST., BOSTON.

ARCHITECT. PERRY BUILDING

Boston Ornamental Iron Works

MANUFACTURE ALL KINDS OF WROUGHT AND CAST IRON

For Building IRON AND WIRE RAILING. IRON CRESTINGS,

IRON STABLE FIXTURES, FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES, AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue. BUBIER & COMPANY,

118 MILK STREET, BOSTON

Valuable Scientific Books.

CHIMNEYS FOR FURNACES,

FIREPLACES, and STEAM BOILERS. By R. Armstong, C. E. 18mo, boards, 50 cents.

VENTILATION OF BUILDINGS. By W. F. BUTLER. 18mo, boards, 50 cents.

WATER AND WATER SUPPLY. By Prof. W. H. CORFIELD, M. A. 18mo, boards, 50 cents.

SEWERAGE AND SEWAGE UTILIZATION.

RS—eccived with a commission of the ed will sum of sioners d.

RS.

ERS. Street, es and ufac-., Bos-order,

TON.

rks

RON

G, NGS, 8,

SES,

NES,

is of

yue. Y,

S.

RM-

N.

Y.

BUILDING MATERIALS.	6 x 8 - 7 x 9\$19 50 \$18 50 \$17 50 \$16 50 Chalk
LATEST NEW YORK QUOTATIONS.	11 x 14 - 12 x 16 23 00 21 00 20 00 18 50 Whiting
Dec. 15, 1876.	16 x 22 - 10 x 32 30 00 20 00 20 00 — Zinc white American and sure 11/20
BRICK. Cargo Afloat. ale	22 x 30 - 15 x 38 34 00 32 00 28 00 — Lead, white, American, dry 9 @
ersey	20 x 34 - 22 x 36 37 00 34 00 30 00 — Lead, white, American, in oil, pure. 101/2@ 1 24 x 36 - 24 x 40 40 00 36 00 32 00 — Lead, red, American 8 @ 21 x 42 - 23 x 42 44 50 40 00 30 00 — Litharge, American 8 @
ong Island. @ @ —	26 x 46 - 30 x 48 46 50 42 00 38 00 - Ochre, French dry (gold) 1 45 6 -
averstraw Bay	132 X 54 - 34 X 56 50 00 46 50 42 00 - Venetian red, English (gold) . 19 cwt. 1 75 @ 9 6
Averstraw Bay, choice	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
FRONTS.	An additional 10 per cent will be charged for all glass Vermilion, Am. Quickshver (gold)
The Decime To W C C C C C C	
roton — Dark	be charged in the 84 united inches bracket Discount to the trade, 50 and 10 @ 50 and 10 and 5 per Orange Mineral English, gold 11½@
roton - Brown	Chrome yellow, genuine, dry 12\(\frac{1}{2} \)
attimore	Sizes. 1st. 2d. 3d. 4th. Sienna, raw (American),
nd \$6 on Baltimore. CEMENT.	11 x 14 - 12 x 13 11 50 10 25 9 75 8 75 Sienna, burnt, in oil
osendale	18 x 22 13 25 12 00 10 75 9 50 Umber, burnt
ortland	25 x 30 - 24 x 30 19 75 16 75 13 50 — Umber, raw
eene's coarse	21 x 28 - 24 x 30 20 25
FIRE BRICK.	28 x 44 - 30 x 50 24 00 21 50 16 75 — Black, Lamp, ordinary
ed Welsh	34 x 58 = 34 x 60 31 50 29 50 25 00
ootch	36 x 60 - 40 x 60, 37 00 32 50 29 50 EASTER FARS. Above 612 part by extra for every five inches Duty 20 per cent, ad val. on calcined: lump, free
DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES.	Nova Scotia, white
0 x 6.0 1½ in. \$1 00 —	Calcined, Eastern and city 4 ppl. 1 25 (a) 1
6 x 6.6	
8 x 6.8	3/4 Fluted plate \$0 22 3/4 Rough plate \$0 65 3-16 Fluted plate 30 3/4 Rough plate 1 1 00 3/4 Fluted plate 40 3/4 Rough plate 1 1 0 3/4 Fluted plate 40 3/4 Rough plate 1 1 0 8 4/4 Rough plate 40 1 Rough plate 1 30 3 3 3 4 </td
Size. 1½ in. 1½ in. 1½ in. 1½ in.	¾ Rough plate 40 1 Rough plate 1 30 Green slate 7 50 @ 8 ¾ Rough plate 50 1 ¼ Rough plate 1 80 Red slate 11 00 @ 12
6 x 6.6 1 87 \$2 38 — 6 x 6.8 1 92 2 40 — 6 x 6.8 1 92 2 47	FOREIGN WOODS. — Duty free,
0 & 0.10	Cedar. Cuba
8 x 6.8 2 00 2 58 83 18	Mexican, small 0 6 @ 0 8 delivered 20 @ Mexican, large 0 8 % @ 0 11 SOLDERS.
8 x 7.0 2 09 2 68 3 34 10 x 6.10 2 20 2 78 3 54	MAHOGANY. SOLDERS. No. 1 \$-@\$0
0 x 7.0	mood Departicial front 0.25 @ 0.40 TIN PLATES _ Date 1 1.100 DE
Dimen- 12 Lights. 8 Lights. 4 Lights.	St. Domingo, crotches, line
sions of Vindows, 14pl. 14cc. 14cc. 14cc. 14cc. 14cc. 14cc.	St. Domingo, logs, small.
1 x 3.6\$1.00 1.08	
7 x 4.61.45 1.52 1.64 1.67 — 1.69 1.81 7 x 4.101.56 1.64 1.77 1.80 — 2.02 2.15	Frontera, Mexican, small
7 x 5.21.67 1.74 1.89 1.93 2.08 2.16 2.31	Honduras 0 5 @ 0 9 ZINC. — Duty, sheet, P fb. 2½c.
7 x 5.6— 1.84 2.02 2.08 2.26 2.31 2.49 7 x 5.10— 1.94 2.13 2.19 2.38 2.43 2.62 10 x 4 6 1.59 1.66 1.80 — 2.03 2.17	Rio Janeiro, ordinary to good P lb. 0 21/2 0 31/2 Sheet (gold)
10 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53 10 x 5.61.88 1.96 2.19 2.16 2.39 2.42 2.65	Rio Janeiro, good to fine
10 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82 cc means counted checked, plowed and bored for	Honduras 0 4 @ 0 5 Pipe. A decline of % cent.
eights.	Tulipwood. Plb. 0 4 @ 0 5 Discount 10 per cent to trade,
of-Bed Sash, Glazed	Lignumvitge, small
er lineal foot, up to 2.10 wide	LATH. — Cargo rate
er lineal foot, up to 3.1 wide	LUMBER. Pine, very choice, and extra dry, \$\psi M\$ ft. \$\pi 60\$ 00\(\pi \) \$70 00 Pine, good
er lineal foot, painted and trimmed 0 40 @ 0 50 INSIDE BLINDS.	Pine, shipping box
er lineal foot, 4 folds, Pine	Dine common how 1/ 13 50@ 15 50 Pig Scotch Carthagele 98 00@ 98
er lineal foot, 4 folds, Cherry or Butternut— @ 1 10	Pine, tally plank, 14, 2d quality 35@ 38 Pig, Scotch, Eglinton 26 00@ 26
er lineal foot, 4 folds, Black Walnut — @ 1 20 Window Frames.	Pine, tally planks, 1½, culls
p to 3.4 x 7.2, put together @ 2 65	Pine, tally boards, dressed, common. 2002 27 Fig. American, Forge
HAIR.—Duty free. attle	Pine, strip boards, merchantable 17@ 20 Bar, Swedes, assorted sizes (gold) —@ 100
	Pine strip plank dressed clear 3500 38 Ray Swedes ordinary size s 130 0000 139
LIME. rate, common, cargo rate	0500 00 Dec0-1 14-1 01 -1 1 14-1
ate, finishing	Spruce wall strips
ockland, finishing 1 25 @	Spruce timber P M ft. 17 00@ 20 00 Bar, refined, 1 & 1½ x ½ & 5-16. 2 6-10@ — Hemlock boards 66
Add 25 c. to above figures for yard rates.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
GLASS. Duty. — Window, Polished Cylinder, and Crown, not	[Albit, goods
rer 10 x 15in., 21/c. P sq. ft.; larger, and not over 16	Oak 20 00@ 50 00 Rods, % to 3-16in 25-10@ 4 1-
sq. ft.; above that, and not exceeding 24 x 60in., 20c. sq. ft.; all above that, 40 ct. \$\forall sq. ft. On Unpolished ylinder, Crown, and Common Window, not exceeding	Chestnut boards, lin
ylinder, Crown, and Common Window, not exceeding	Cypress, 1, 1½, 2, and 2½in
x 15in., sq., 1½c.; over that, and not over 16 x 24, 2c.; er that, and not over 24 x 30, 2½c.; all over that, 3c.	Black Walnut, %
lb. FRENCH WINDOW. List of March 1, 1876.	Black Walnut counters 49 ft 18@ 35 10d
Sizes. 1st. 2d. 3d. 4th.	Cherry, good. PM ft. 60 00@ 80 00 10fp
x 8 - 7 x 9\$11 00 \$10 50 \$10 00 \$9 50	Whitewood, %in
x 14 - 12 x 16 13 50 12 50 11 50 10 75	Whitewood, % panels 35 0.00 40 00 2 in., Boston make 2 in., Boston make
x 18 — 14 x 24 14 00 13 00 12 00 11 25 x 24 — 15 x 32 17 00 16 00 14 00 13 00	Shingles, extra shaved pine, 18in 8 50@ 9 50 SASH LINE.
2 x 32 - 20 x 30 18 00 16 50 14 50 13 50 x 30 - 15 x 38 19 50 18 00 16 00 -	Shingles, clear sawed pine, 18in 6 50@ 7 50 Best hemp
x 34 - 22 x 36 20 50 19 50 17 00	Shingles, cypress, 20 x 6
x 42 - 28 x 42 25 50	Yellow pine girders 30 00@ 40 00 Japanned Acorn \$4 00 \$5 00 \$9 doz. p
x 50 - 32 x 52 28 00 25 50 23 00 -	Locust posts, 10ft 24@ 25 Plain Bronzed from 80 92 9 pair.
x 54 - 34 x 56 29 00 27 00 24 00	Locust posts, 12ft

THE BOSTON MARKET-Continued.

Builders' Hardware.
MORTISE LOCKS - Brass face and bolt - easy
spring. 31/2 to 41/4 in
Do., for front doors.
Factory make, plain front \$3 25 each.
Factory make, bronze front
DOOR KNOBS. \$\tilde{\psi}\$ Set.
Solid glass \$ 50
Silvered glass 1 10
Cut glass 3 00 Nickel plated 2 00
Bronze metal
SASH FASTS. P Dozen.
Plain brass
Nickel plated, self-locking
Bronze metal, self-locking 5 00 to 12 00
SCREWS. P Gross.
Round head, nickel plated 1 \$2 25 \$2 90 for window beads, $1\frac{1}{2}$ in.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash

STORE DOOR HANDLES - with mortise !

For Insane Hospitals, Fire Proof Buildings, &c.



nshes gives perfect security with that have a prison-like appearan both architects and medical super

D. M. MEEKER & SON.

Fine Castings of Malleable and Gray Iron, German Silve and Composition; also Patterns a specialty.



PROTECT

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl

The use of this new and invaluable improvement preclude I possibility of overflow, by which buildings are so often imaged to the extent of thousands of dollars.

It can be introduced at the cost of the ordinary wash-bowl. This guaranty accompanies every basis sold to out

We hereby pledge ourselves to remove our basins, and replace them with any other kind now in use, that parties interested may select, without expense to them, immediately on their failure to fail the following conditions, provided the trap is kept in running order:—free and open as ong or longer than any other trap used with wash-bowls, and they are easily cleaned in case of stoppage.

2d. No overflow or leakage of any kind will occur.

3d. No sewer gas will escape from the drain or pipe, or any offensive smelt arise from them.

4th. These bowls will remain free and clear from any secumulation of soap or grease or other offensive matter in the space between the inner and outer bowls.

L. S. MOORE & CO., 40 Oliver Street, Boston



SCOTCH AND AMERICAN Chimney Tops and Garden Vases

OF ALL SIZES AND PATTERNS Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

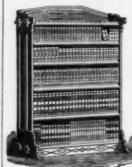
American, Roman, and Portland Cement, LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston

NGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and riks of the Artist. Twenty-four Plates, reproducing with utmost fidelity some of the most famous of Landseer's rika, including "The Challenge," "Chillingham Red r.," "The King of the Forest," "The Monarch of the r.," "High Life," "Low Life," "Lawing Downthe Law," noeing the Bay Mare," and others of equal beauty. arto. Price, \$10.00.

JAMES E. OSGOOD & CO., BOSTOR. ENGRAVINGS FROM LANDSEER.



Useful if not indis-Architect's Office. The Portable BOOKCASE.

Eastlake Pattern. (Patented), Strong, durable, EXCLUDED

Holds from 150 to White Pine, \$16 and \$21; Black Walnut, \$20 and \$25. Call and examine it.

The Harvard Book-Rack, Holds from 20 to 50 Substantial, tasteful, durable. Price, in neat box, \$1.00.

LOCKWOOD, BROOKS, & CO.,

381 Washington St., and 10 Bromfield St.,

BOSTON.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. YOUR HOUSES BRASS FENDERS AND ANDIRONS OF ANTIQUE

BEST IN QUALITY AND FINISH. Tuttle & Bailey Registers a specialty.

Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to

examine our stock, better to send for Catalogue and prices. MURDOCK PARLOR-GRATE CO.,

Springfield Gas Machine.

ANDREW G. PAUL,

119 Court Street, Boston.

11 Marshall Street, Boston

TO INTERIOR DECORATORS.

in excellent advertising Medium for your purposes is th AMERICAN ARCHITECT AND BUILDING NEWS.

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850. SPECIMENS OF TWENTY-FIVE YEARS' STANDING an be shown looking much fresher than any other paint of two years.
It emits no poisonous gas like other paints while drying Its surface is a perfect enamel, from which any specks of dirt may easily be removed.

irt may easily be removed. It is unequalled for beauty, durability, and economy. OFFICE AND STORE 145 MILK STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos

TOSCHI'S ENGRAVINGS, From Frescos by Correggion Parkeggiano. Reproduced by the Heliotype Process from the "Gray Collection of Engravings," Harvard University.

This volume contains twenty-four Plates, including Parmegiano's Saint Agaths, Saint Lucia, and Saint Apollonia, Two Deacons, and Saint George. Of Correggio's Frescos, it includes the Madonna della Scala, Diana in a Charlot, The Coronation of the Virgin, groups of Cherubs and Angels. A rare and valuable collection. Quarto. Price, 810.00.

JAMES R. OSGOOD & CO., Bostok.

ART INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131 133, & 135 Shawmut Avenue.

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Bar Designs furnished on application.

National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings. Monuments, and Altars.

Architects' Designs executed, and designs

furnished for special subjects.

Artistic Monuments in Granite and Bronze.

TAdmirably adapted for School and Home Instruction, and very APPROPRIATE FOR THE HOLIDAYS.

WHITE'S

PROGRESSIVE ART STUDIES Just Ready;

WHITE'S Primary Drawing,

> BY THE USE O GUIDE POINTS.

This series is a part of the cour e of WHITE'S PRO-GRESSIVE ART STUDIES, which have been received with so much favor. It is comprised in 15 Cards, enclosed in an envelope; A MANUAL OF INSTRUCTIONS for the teacher, and packages of EXERCISE PAPER, containing 50 sheets each.

Manual Exercise Paper, per package

Samples of a set of the Cards, and the Manual, if desired for examination with a view to introduction, will be sent on receipt of 15 cents each.

A Pronounced Success!

WHITE'S ART STUDIES.

BY GEO. G. WHITE, PROFESSIONAL ARTIST.

A thoroughly Practical System of Drawing for Schools and Private Learners, by an eminent artist.

"MR. Whith has shown an ability hardly less than genius in the preparation of his Art Studies." — ATLANIC MONTHLY.

WHITE'S PROGRESSIVE ART STUDIES are issued a the form of Cards, neatly incased in envelopes containing twelve each, with an accompanying Manual of lastructions, and duplicate sheets of blank Drawing Paper.

NOW READY.

. We shall be pleased to send samples of the Art Studies for examination with a view to introduction, on eccipt of 30 cents each.

Send for full Descriptive Circulars containing many testi-ionials from eminent teachers.

, THE EDUCATIONAL REPORTER for September, containing full particulars of our New Books, and much valuable educational information of a miscellaneous character, will be sent to teachers and educationists on application.

Ivison, Blakeman Taylor, & Co.

EDUCATIONAL PUBLISHERS

138 and 140 Grand St., New York. 133 and 135 State St., Chicago.

S

le,

Ξ.

gs,

DR

S

or

ts.

Architects' and Engineers'

STATIONERY.

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF STATIONERY

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE TRACING CLOTH.

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper,

Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.





PARLOR GRATES

H. M. CREAMER,

86 North Street, Bosto
Send for Price List.
parties are living within fi
hundred miles of Boston,
will paytocall and examin

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE,

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon,

Fred. Reed,

E. Hixon, jun

UPS AND DOWNS ON LAND AND "Turning over these pages is like grathering around a fire-side to listen to the bright and entertaining stories of a friend who has travelled and kept his eyes well open. Only Mr. Hoppin's pencil is more elequent and witty than most men's tongues." — Boston Journal.

JAMES R. OSGOOD & CO., BOSTON.

A RT FOLIAGE. By J. K. COLLING. 1 vol. quarto. 72 piates. \$15.00.

. For sale by Booksellers. Sent postpaid. on receipt of price, by the Publisher.

JAMES B. OSGOOD & CO., BOSTOE.



J. & R. LAMB,

59 Carmine St., New York

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose exclusively Polished Brass and Sterling Silver.

I'llustrated Catalogues Post Free.

od Work | Metal & Stone Work | Banners & Decorations 10 cts. | 10 cts.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

our own patterns, or from architects' drawings.
20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET.



ROETH & MAY. FURNITURE

AND

DECORATION,

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET, NEW YORK.

W. J. McPHERSON & CO.,

Ecclesiastical.

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments,

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS, STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 639 Washingon st; Pitkin Broz. 25 Charlestown st; Allen & Noble, 39 Hanover st; Bogman & Vinal, 7 Dock sq; Fariesa & Boynton, 15 Cornhill; Gardner & Chaudler, 121 Washington st, B. f. Solomon & Sons, 49 Franklin street.

New York City, —A. Hammacher & Co., 298 Bowery; L. J. Tillottson & Co., 5 Dey st; O. A. Nathusius, 229 Bowery; L. J. Tillottson & Co., 5 Dey st; O. A. Nathusius, 229 Bowery; E. J. Solomon & Sons, 60 Broadway; E. R. Krumm, 12 Essex street; Class. E. Kugler, 10 Division st.; Speyer Bros., 16 Bowery; W. F. Hubinger, 156 Grank st.; C. A. Stock, 16 Wooster street.

Hrounds Grand st.; C. A. Stock, 16 Wooster street.

Hrounds Grand st.; C. A. Stock, 16 Wooster street.

Hrounds Grand st.; C. A. Stock, 16 Wooster street.

Hrounds Grand st.; Co., 41 State st.

Hochester.—Policick, Weaver, & Co., 17 Bonfiel st.

Hudfalo.—C. H. Utley, 82 Pearl st.

Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 2d st.; Mobilt, Brown, Nobilt, & Co., 22 S. 2d st.; B. L. Muddleton, 817 N. 2d st.; B. L. Solomon a Sons, 30 N. 10 N. 14 st.; F. A. Bueren, 435 E. Philadelphia.—Thomas Thompson, Sons, & Co., 240 S. 2d st.; Mobilt, Brown, Nobilt, & Co., 22 S. 2d st.; B. L. Muddleton, 817 N. 2d st.; B. L. Solomon a Sons, 30 N. 13 st.; F. A. Bueren, 435 E. Philadelphia.—Thomas Thompson, Sons, & Co., 20 S. 2d st.; Mobilt, Brown, Nobilt, & Co., 22 S. 2d st.; B. L. Muddleton, 817 N. 2d st.; B. L. Solomon & Sons, 24 South Charles st, Warfield & Bohr, 62 So. Sharp st. Cleveland, 0.—George Worthington & Co., 30 Water st; Wm. Bingham & Co., 148 Water st.

Chiengo.—J. L. Wayne & Son, 74 Randolph st; A. A. Ulrick & Co., 16 First awer, 13 St. Sharp st. Chiengo.—J. L. Wayne & Son, 74 Randolph st; A. A. Ulrick & Co., 16 St. James, 40 St. Louist.—Gon. A. Rubelmarn, & Co., 16 Wooddridge street.

St. Louist.—Gon. & Rubelmarn, & Co., 16 Wooddridge street.

St. Louist.—Gon. & Rubelmarn, & Co., 16 St. James, Gon. & Gon.

WILLIAM B. GLEASON & CO., West Camden Street (Opposite Chickering Station),

BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

BOSTON.

BOSTON.

P. TOLMAN & E. A. HUNTING,
S. P. TOLMAN AS E. A. HUNTING,
GENERAL AGEN'S. Particular attention given to Repairing and Lessing Estates and the Collection of Rents.
MORTIGAGES NEGOTIATED. NO. II BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PUBLISHED WEEKLY BY JAMES R. OSGOOD & CO., WINTHROP SQUARE.....Boston

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance

RATES OF ADVERTISING.

	ents per line (agate), or \$1.7										
- 11	asertion.										
	One inch, one month .	0		0						\$7 00	
	One inch, three months			0						20.00	
	One inch, nine months.									58.00	
	One inch, one year										
	On other pages, 10 cents po	285	lim	B 6	eac	h	ins	er	tic	n. or	\$1,40
10	er inch.										
-	One inch, one month .									\$5.60	
	One inch, three months									16.00	
	One inch, nine months										
	One inch, one year										

Publishers' Department.

Classified Advertisements.

The following is an alphabetical list of the advertise nents which appear in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects man an excement medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to catalogues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once appreciate the excellence and con ce of the arrangement.

ARCHITECTS	' AND ENGINEER	s' STATIONERY, &C.
		and, Boston
ARCHITECTU	RAL BOOKS.	
A. J. Bic	knell & Co., New	York

ARCHITECTURAL IRON WORK Bartlett, Robbins, & Co., Baltimore, Md...... Architectural School.

Mass. Institute Technology, Boston.......

ARTIFICIAL WOOD ORNAMENTS. W. B. Gleason & Co., Bosto

The Part of the Cartie				
Say	er & Fishe	er, News	rk, N.J	
BRONZI	E DECORA	TIONS.		
Nat	ional Fine	Art Fo	undery, N	ew Yo
Deres	one awn I	Dear De	man Tar	DDOTTE

Tolman & Hunting, Boston..... BUILDERS' HARDWARE. Burditt & Williams, Boston BUILDERS IN IRON.

George Dwight, Jr. & Co., Springfield..... BUILDING STONE.
Charles P. Williams, New York...
Cape Ann Granite Company, Boston.....

CABINET FURNITURE AND UPHOLSTERY.

Edward Hixon & Co., Bost CHURCH AND HALL ORGANS. New England Organ Co., Boston..... CHUBCH FURNITURE.

J. & R. Lamb, New York..... vii Braman, Shaw, & Co., Boston..... vii CHURCH ORGANS. E. & G. G. Hook & Hastings, Boston..... iv

CONTRACTORS AND BUILDERS. W. H. Warren, Boston. viii
Mead, Mason, & Co., Boston viii
C. H. Hall, Boston. viii
Designing and Wood Engraving.

Yale Lock Manuf'g Co., Stamford, Conn. viii

ELECTRIC BELLS, ANNUNCIATORS, &c. S. W. Fuller, Boston..... Tufts' Elevator Works, Boston....

ELEVATORS, STEAM ENGINES, &c.
Whittier Machine Co., Boston.....

N. E. Felt Roofing Co., Boston..... FIRE-BRICK AND CHIMNEY-TOPS.
Waldo Brothers, Boston.....

FIRE-PROOF BUILDINGS.

Fire-Proof Building Co., New York

E. H. Brabrook
Roeth & May, Boston
Lawrence, Wilde, & Co., Boston
FURNITURE, WOOD MANTLES, &c.
C. J. Soyard, Boston

ESCO PAINTERS
W. J. McPherson, Boston.
Philip A. Butler, Boston.
Wallburg & Sherry, Boston
L. Haberstroh, Boston.
William S. Brazer, Boston.

William S. Drizer, Boston.

R. Hollings & Co., Boston.
Mitchell, Vance, & Co., New York
S. A. Stetson & Co., Boston.

Archer & Pancoast Manuf. Co., New York
M. W. Peirce & Co., Boston.

GAS MACHINES.
Audrew G. Paul, Boston..... vii

IRON BRIDGES.
King Iron Bridge and Manu'f. Co., Cleveland, O IRON CORNICES nith & Van Noorden, Boston.....

John H. Reed & Co., Boston.... IRON WORK FOR BUILDINGS.

J. B. & J. M. Cornell, New York

LINEN HOSE. New England Linen Hose Manuf'g Co., Boston. Lock AND BRONZE HARDWARE.
Yale Lock Manufacturing Co.....viii

MARBLE FLOORING TILES.
George Barney, Swanton, Vt MARQUIS BASKET HOPPER. J. L. Mott, New York . . .

ORNAMENTAL AND CUT GLASS.

J. Cartisser, New York...... ORNAMENTAL BRONZES. Mitchell, Vance & Co., New York Archer & Pancoast Manuf'g. Co., New York..

ORNAMENTAL IRON WORKS. Bubier & Co., Boston......vlii Bartlett, Robbins & Co., Baltimore..... PAINT. Asahel Wheeler, Boston.....

H. B. Jones & Co., Boston..........
PARLOR GRATES.

Hawthorne & Tucker, Boston

PLUMBERS' SUPPLIES. Jennings' Sanitary Depot, New York...... ROOFING PLATES AND METALS. Fuller, Dana, & Fitz, Boston....

Scientific Books.
D. Van Nostrand... SHUTTERS (ROLLING WOOD).

Wilson & James, New York.....viii SHUTTERS (STEEL).

Sign and Ornamental Painters.
Warner Bailey, Boston..... SKYLIGHTS. The Hayes Patent, New York.....vlii Smith & Van Noorden, Boston..... i SLATE MANTELS, &c. .

W. Grigg, Boston.....vii oses Mellen & Co.,....ii SLATE PAINT. York Slate Paint Co., New York vii SPRING HINGES.

Am. Spring Butt Co., New York..... iv STAINED GLASS.
 Falck & Schwabe, Boston
 iv

 W. J. McPherson & Co., Boston
 v

 Chas. Booth, Orange, N. J.
 i

 Kelley & Holland
 viii
 STEAM HEATING APPARATUS.

STEAM PUMPS. Geo. F. Blake Manufacturing Co., Boston..... STONE DRESSING WORKS. George Brown, Newark, N.J.....

T. Aspinwall, New York..... i C. A. Wellington, Boston.....viii

Heliotypes and Books for the Holidays.

During the holiday season, Messrs. James R. Osgood & Co. will occupy the capacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will embrace all the choice works published by Messrs. Osgood and Co. during the past three years, including engravand to, during the past three years, including engrav-ings from the paintings of the most eminent modern artists, and the most renowned ancient masters, repre-sented in the "Gray Collection" at Harvard College, This exhibition will afford a most excellent opportunity for the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Messrs. Osgood & Co., besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skeltoni in Armor," by Longfellow, apperbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of the year; superior in some respects to "Mabel Martin," and "The Hanging of the Craue." The works of Tennyson, Longfellow, Emerson, Whittier, Holmes, Lowell, and numerous other American authors, will be presented in great variety and attractiveness. Among the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres." by Boyesen; "Three Centuries of Song," edited by Whittier; "Poems of Places," edited by Longfellow; "That New World," by Mrs. J. J. Platt; "Seashore and Pratrie," by Mrs. Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 367 Washington Street, Boston, will be a very attractive resort during the next four weeks.

A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. S. M. B. Piatt, author of "A Wonan's Poems," and "A Voyage to the Fortunate Isles." vol. 16mo, \$1.50. This is a volume which will be I vol. 16mo, \$1.50. This is a volume which will be heartily welcomed by all lovers of true poetry. Under the general title of "That New World,"—which is also the special title of the leading poem,—is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are poems touching upon sorrow, suffering, patience, loss, and death. A second division of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely to be popular, described under the phrase "With Children."

Tales of Two Hemispheres.

Tales of Two Hemispheres.

James R. Oegood & Co. have published in the "Saunterer's Series," a new work by H. H. Boyesen, the popular Norwegian author, under the above title. It contains six charming stories, on Old and New World subjects, which are told with remarkable grace and attractiveness. Speaking of the leading story, "The Man who lost his Name," the New York Evening Post said: "Its author has done other work as clever as this, but nothing that we can recall which has shown so much strength." I vol. 8vo, \$1.25.

"Flower and Thorn."

In Mr. T. B. Aldrich's charming new volume of poems just published by James R. Osgood & Co., are included most of the poems the author has written since 1865, several of which have not before been printed. They merit in higher degree than "Cloth of Gold;" the description given of that collection by the 'International Gazette, "as "poems in which great delicacy of thought is combined with a felicitous choice of language."

The Kittredge Cornice and Ornament Co.,

Of Salem, O., has published "The Compendium of Sheet-Metal Work," which is profusely illustrated with designs of the goods manufactured by them. The book comprises more than five hundred pages, and gives prices, rules, and directions for estimates, items of cost of their various ornaments, &c. The Compendium is a very convenient publication for those who desire to use the materials made by the Kittredge Cornice and Ornament Co.

Heliotype Art-Works.

James R. Osgood & Co. announce the following He-liotype Art Works for November and December; each containing 24 full-page Heliotypes, with descriptive letter-press, Large 4to. Tastefully bound. Price of each, \$10.00.

T. Aspinwall, New York.

C. A. Wellington, Boston.

Viii
VENERES.

Palmer, Parker, & Co., Boston.

W. H. Kimball, Boston.

WHITE'S ART STUDIES.

Ivison, Blakeman, Taylor, & Co.

WINDOW SASHES.

D. M. Meeker & Son's, Newark, N.J.

WELLINGTON'S PATENT WASH-BOWL.

L. S. Moore & Co., Boston.

W. WELLINGTON'S PATENT WASH-BOWL.

L. S. Moore & Co., Boston.

WOOD CARPETING, &C.

The National Wood Manuf'g Co., New York

The National Wood Manuf'g Co., New York

Tick Carry Collections of Engravings at Harvard College.

III. The Titian Gallery. IV. Gallery of Famous Artists. V. Gallery of Famous Artists. V. Gallery of Famous Artists. Very Collections of Engravings at Harvard College.

III. The Titian Gallery. IV. Gallery of Famous Artists. V. Gallery of Famous Artists. V. Gallery of their pictorial attractions, the bumber of eminent artists represented (many of them by their most beautiful and famous works), and the upperfection with which the Heliotypes reproduce the by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works), and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works, and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works, and the upperfection with which the Heliotypes reproduce the by their most beautiful and famous works, and the perfection with which the Heliotypes reproduce the by their most beautiful and famous works, and the perfection with which the Heliotypes reproduce the by their most beautiful and famous work

y will

ll em grav-odern

epre-llege. unity us of nable

ever

ndard s sev-ently skele-ed by d the this is of the tin," Ten-Low-ll be

mong the and

the

t the

verv

ther Wo-

les."
l be

and nter-ng a , are loss.

With

of with The and ems

He-ach tive e of

the

the the t in mes



THE BASKET
SLOPHOPPER is the
neatest and mest
useful article that
can be devised for what it is intended:

J. L. MOTT IRON WORKS, New York.

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by using our

Patent Slate Paint,

MIXED READY FOR USE.

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this state, be made to last from twenty to twenty-five years. Old roofs can be putched and coated, looking much better, and lasting longer than new shingles without the state, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the co-of simply laying toem. The paint is FIRE-PROOF again: sparks or flying embers, as may be easily tested by any on

IT STOPS EVERY LEAK,

and for tin or from has no equal, as it expands by heat, con-racts by cold, and NEVER CRACKS nor scales. Roofs cov-red with Tar Sheathing Felt can be made water-tight at a mail expense, and preserved for many years. This State Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on tin, iron, felt, matched boards, or any smooth surface, from two quarts to one gailon are required to 180 square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition,

therefore it neither cracks in winter, nor runs in summer.
On occayed shingies it fills up the holes and pores, and
gives a new, substantial roof that will last for years. CTRLED
or WARFED shimiles it brings to their places, and keeps
them there. It fills up all holes in felt roofs, stops the leaks,
and, although a slow dryer, rain does not affect it a few
hours after applying. As nearly all paints that are black
e ntsh TAR, be are you obtain our GENTINE article, which
(for shingle roofs) is

CHOCOLATE COLOR,

when first applied, changing in about a month to a uniform slate color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate Paint ever introduced, that will effectually prevent dampness from penetrating and discoloring the plaster.

These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.

Our only colors are CHOCOLATS, RED, BRIGHT RED, and ORANGE.

NEW YORK CASH PRICE-LIST.

5	gallons,	can and	box								-\$5 50
20	16	keg									
20 40	44	one bar									
1	We have	in stock	, of	ou	ro	wn	ms	nul	acture,	roofing	mate-

1000 rolls extra Rubber Roofing, at 3 cents per square foot Or we will furnish Rubber Roofing, Nails, Caps, and Slate Paint, for an entire new roof, at 4½ cents per square foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1½ cents per square foot.

3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

foot.
200 rolls Tarred Sheathing, at % cent per square foot.
1000 barrels Slate Flour, per barrel, \$3.00.
300 barrels Grafton Mineral, per barrel, \$3.00.
500 gallons fine Enamel Paint, mixed ready for use, on Inside or outside work, at \$2.00 per gallon. Send for sample card of colors.

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unless express charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK.

CHURCH AND LODGE



ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUFACTURERS OF FINE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES.

WHICH COMPRISE

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble),

ROOFING SLATES, SLATE URINALS, **BLACKBOARDS** FOR SCHOOLS, &c.

A LARGE STOCK O

Parlor Grates, Frames, and Registers ALWAYS ON HAND

JOSEPH W. GRIGG,

No. 59 Bromfield Street, Boston.

"ZODTCHY" (BUILDER).

A JOURNAL OF ARCHITECTURE, FINE ARTS, AND ENGINEERING,

Published, since 1872, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

Each number contains from Eight to Sixteen pages of letterpress, gr. quarto, with cuts, and at least five autographic chromo-lithographic plates, the titles in both Russian and French.

PROSPECTUS.

PROSPECTUS.

The "Zodtchy" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Construction of different Buildings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Matternia, &c., the Boggraphy of Bussian and Distinguished Foreign Architects, the Discussion of Building Laws, Critical Analysis of Architectural and Artistic Publications. The "Zodtchy" bublishes a Werkly Stpplement called "Leaves of the Zodtchy," which contains the current Building News, Public Competitions, Exhibitions, Proceedings of Architectural Societies, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisements, &c.

Capital, Advertisements, &c.

Subscription Price for Europe and the United States,
\$12.59 per Annua.

Price for Advertisements: One Line, each insertion, & cta.
For important Advertisements, a Discount of ten to thirty
per cent.
The "Zodtcht" exchanges with all Architectural and
Technical Journals.

Address,
JOURNAL "ZODTCHY,"

18 OFFICER STREET, ST. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE, BOSTON,
Receive Subscriptions for the "ZODTCHY" for the United States.

SUPERB HELIOTYPE BOOKS.

THE Heliotype process reproduces engravings with faultless accuracy, and with a delicacy which frequently secures a more pleasing effect than the original engraving itself. These Heliotypes are not cheap or imperfect initations, but absolutely exact copies; and, being printed in ink, they are permanent.

The following Heliotype Books commend themselves to all art-lovers, and are peculiarly suitable for Gifts:—

GEMS OF THE DRESDEN GALLERY.

nprising the most Famous and Popular Works in the Dresden Collection, reproduced in Heliotypa from the best Engravings. With Notices of the Works and the Artists. 24 Heliotypes. 1 vol. large 4to, \$10.

Works and the Artists. 22 Henotypes. I vol. argo
410, \$10.

CONTENTS.—The Sistine Madonna, by Raphael —
The Madonna of the Meyer Family, by Holbelin.—The
Reading Magdalen, La Notte, and St. George, by
Corregio.—Titian's Daughter, by Titian.—Falma's
Daughters, by Falma Vecchio.—"Quos Ego." by
Rubens.—Eece Homo, and Venus and Child, by Guldo
Reni.—Susanna and the Elders, by Paolo Veronese.—
The Fruit-Sellers, by Murillo.—Rembrande and his
Wife, by Rembrandt.—Saint Cecilia, and Christ, by
Carlo Dolce.—The Genius of Fame, by Caracci.—The
Card-Players, by Caravaggio.—The Writing-Master, by
Dow.—Rycknert, by Van Dyck.—The Cemetery, by
Ruysdael.—The Smithy, by Wouvermans.—Diogenes,
by Ribera.—The Ford, by Berghem.—Netscher and
his Wife, by Netscher.

GEMS OF THE GRAY COLLECTION.

A Series of Twenty-four Choice Engravings, reproduced in Heliotype from the Originals in the Gray Collection of Engravings, Harvard University. With full Historical and Descriptive Letterpress. 1 vol. large 4to, elegantly stamped, \$10.

press. I vol. large 4to, elegantly stamped, \$10.
CONTENTS.—The Transfiguration, and Galatea, by Rapiael.—The Last Supper, and the Combat for the Standard, by Leonardo da Vinci.—Il Giorno, and St. Catherine, by Correggio.—Aurora, and Doctors of the Church, by Guido.—The Triumph of Bacchus, by Caracci.—The Last Communion of St. Jerome, by Domenichino. Cervantes, by Velasquez.—The Immaculate Conception, by Murillo.—The Lion Hunt, by Rubens.—Christ crowned with Thorns, by Van Deck.

The Knight of Death, by Dürer.—David ami Saul, by Van Leyden.—The Burgomaster Six. and The Mill, by Rembrandt.—The Three Fates, by Michael Angelo.

—Belisarius, by Salvata Rosa.—The Rat-Catcher, by Visscher.—The Sudarium, by Mellan.—The Embarkation for Cythera, by Watteau.—The Distressed Poet, by Hogarth.

GALLERY OF GREAT ARTISTS.

GALLERY OF GREAT ARTISTS.

A Series of Portraits engraved on Steel, by Eminent Engravers, reproduced in Heliotype. With Biographical and Descriptive Letterpress. Containing Portraits of Leonardo da Vinci, Raphael, Michael Angelo, Correggio, Titian, Caracci, Guido Reni, Velasquez, Murillo, Salvator Rosa, Poussin, Greuze, Claude, Dürer, Holbein, Rembrandt, Rubens, Van Dyck, Hogarth, Reynolds, Landseer, Turner, Copley, Stuart. 1 vol. large 4to, elegantly stamped, \$10.

THE TITIAN GALLERY.

Twenty-four of the finest and most popular of Titian's Pictures. With full account of the Artist and his Works. I vol. large tto, elegantly stamped, \$10. Contexts.—Titian.—Titian's Paughter.—Titian's Mistress.—Pietro Aretino.—Isabella D'Este.—Francis I.—Charles V.—Današ.—Flors.—Laccoön.—Sophonisba.—Three Stages of Life.—Venus and Cupid.—Venus Sleeping.—Venus and the Mirror.—The Assumption.—The Entombment.—The Great Holy Family.—The Martyrdom of St. Peter.—St. Jerome in the Desert.—The Supper at Emmans.—The Tribute Money.—The Madonna and Angels.—Magdalen.

*, These Heliotype volumes are of the same general style with the Landseer Engravings, Toschi's Engrav-ings, Raphael Studies, and Child Life in Pictures, which have proved so acceptable to the public.

JAMES R. OSGOOD & Co., Boston

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A. and E. VARIN Reproduced by the Heliotype Process.
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., Boston.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes of M. T. B. EMERIC-DAVID, member of the Institute of Frank. T. B. This volume contains twenty-four Finetra, reproduced in Tac-simile and with admirable as a rewitted produced in Tac-simile and with admirable as rewitted produced in Holy Ramillow (two groups), "The Madonas of the Fish," and "The Bearing Of the Cross." Quarto. Price, \$10.00.

Receive Subscriptions for the "ZODTCHY" for the United States.

GENERAL HARD TIMES.

Pensions procured and increased. Rounties obtained from \$150, 8200, \$200; \$200; \$200 televeran). Patents for inventors. Late Post-masters' accounts settled. Address (with stamp).

W. H. GODDARD, Attorney-at-Law, Washington, D.C.

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof,

PRICE LIST.

same prices. Liberal discount to the trade.

WILSON & JAMES,
68 Beekman Street, New York.
State rights for patent Shutters for sale. Agents wanted.

WESTON'S

DIFFEREN VAL PULLEY BLOCKS.



DOYL , HALL'S, AND BIRD'S,

THE YALE

CK MANUFACTURING COMPANY, NRY R. TOWNE, President,

STAMFORD, CONN.

lapted for all hoisting purposes.

ES 'ABLISHED 1888.

Palmer, Parker, & Co.

Manufac rers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, ROSEWOOD, etc., MAHOGANY, THUYA, WHITE HOLLY,

> In Logs, Planks, Boards, and Veneers. Dowels all Sizes suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF!





IN ALL KINDS

JENNINGS' PATENT SIX. JOHNINGS' PATENT WATER CLOSETS, JENNINGS' PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager. JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR, PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

Mer Manufacturer of Fine Furniture, and Importer of vare Etchings and Engravings.

No. 170 Tremont St., Boston.

KELLEY & HOLLAND,

Stained and Cut Glass Works.

Church and Ornamental Windows to Order.

Nos. 21 & 27 Pearl Street.



Franklin Press: Rand, Avery, & Co., Boston.





them HUT-s, and lance re the lware been been

er.

k.

S.

nd

GS.



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 52.7

SATURDAY, DECEMBER 23, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, | Boston. | New York. | Philadelphia.

LAWRENCE, WILDE, & CO., MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and ORDERED WORK a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and ably to withstand immense pressure.

The most practical Hose for use in

FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.

—Send for Circulars.—

ROBERT GEMS, Treas.—Salesroom, 339 Washington St.,

BOSTON, Mass.

CHARLES P. WILLJAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in

Quarryman, and Wholesale Dealer in BUILDING STONE, OHIO STONE, FROM BEELIN, AMHEEST, AND BEREA QUARRIES.

Sole Agent for BERLIN STONE,

And for Concord Granite, in New York and New Jersey.

AGENT FOR CANAAN MARBLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES,

AND BURGLAR ALARMS,

For Public and Private Buildings.

THE BEST IN USE. S. W. FULLER,

63 Devonshire Street, Boston

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)

MANUFACTURESS OF LIGHT COLORED (Buff to White)
PRESSED FRONT BRICK.

MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.
Workset Soverville on Bergian River, N. J.

Works at Sayerville, on Raritan River, N.J., Office, NEWARK, N.J.

MINTON'S ART AND ENAMELLED

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES. T. ASPINWALL, Sole Agent,

38 MURRAY STREET, NEW YORK.

DISCOURSES ON ARCHITECTURE.

By VIOLETLE-DEC. Translated, with an Introductory Essay, by HENRY VAN BRUET, Fellow American Institute of Architects. Fully illustrated, I vol. royal 8vo. 88.00.

JAMES R. OSGOOD & CO., BOSTON.

BUILDERS' SUPPLIES.

THE FIRE-PROOF BUILDING CO. OF NEW YORK. Hollow Blocks of any pattern, unlting strength, and resistance to fire and water. The Hydraulic Lime of Teil (France), one of the strongest cements known, is largely used in this maunfacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent 1.ss than brick.

Fire-proof partitions, floor arches between iron beams, ceilings under wooden or iron beams, in the following buildings:

wildings:—wooden or iron beams, in the following buildings:—Western Union Telegraph, Del. and Hudson Canal Co., Staats Zeitung, Equitable Life Assurance, Hudson R. R. E. Fr'ght Depot, Wilmsb'gi Savings Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Windsor Hotel, New York Hospital, New York Hospital, New York Hospital, Thbune, Peabody Museum. Insurance on Wooden Manards r duced nincty c uts porsion spiroved by the New York Board of Fire Underwriters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

MITCHELL, VANCE & CO., Designers and Manufacturers o

ORNAMENTAL BRONZE AND METAL WORK

OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND FRIVATE
BUILDINGS.
ALSO GAS FIXTURES.

WAREROOMS, No. 597 BROADWAY,

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS.

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Trement Street, Boston.
Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.
CHARLES WHITTIEE, Pres.
JAMES STURGIS, Treas.

Bartlett, robbins, & co.,

ARCHITECTURAL IRON WORK,
OINAMENTAL IRON WORK,
OINAMENTAL IRON WORK,
HOT WATER, HIGH LOWPRESSURE STEAM
HEATING AND VENTILATING BY HOT WATER
A SPECIALITY.
Works, cor. Pratt and Scott Size,
BALTIMORE, Mb.

BALTIMORE, Mb.
Office 24 Light St.

BALTIMORE, MD.
NEW YORK OFFICE, 68 Beckman Street.

JOHN H. REED & CO.

AND AGENTS FOR BAY STATE IRON COMPANY,
Manufacturers of and Dealers in
Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Pig.
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Ancle and T Iron, Boiler and Tank
Rivets, Lap-Welded Iron Boiler Tubes,
Wrought Iron Steam and Gas Pine
Offices, 2 DEWENDER

OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS

TUFTS' ELEVATOR WORKS,

MANUFACTURERS OF "TUFTS' PATENT" COMBI-NATION ROPE ELEVATOR, TO BE OPERATED EITHER BY STEAM OR WATER. The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &c.

27 FOUNDRY STREET, SOUTH BOSTON. OFFICE, 243 Broadway, New York.
L. A. Bigelow, resident.
Treas'r and Gen'l Manager,

OTIS TUFTS, President.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO.

CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

E. H. BRABROOK,

96 and 98 Washington St., Boston.

FURNITURE & INTERIOR DECORATIONS,

MR. VICTOR CHARMOIS - Designer.

WALWORTH MANUFACTURING CO.,

VV No. 63 KIBBY STREET, BOSTON,
Contractors for
STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS, of most approved styles. Plans
and Estimates furnished upon application.
GAS LIGHTING APPARATUS, WROUGHT IRON
PIPE AND FITTINGS; RADIATORS,
GREEN-HOUSE APPARATUS,

Etc., Etc.

ARCHER & PANCOAST MANUF. CO.,

A RUHER & PANCOAST MANUF. CO.,

MANUFACTURES OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIELS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,
CHURCH METAL-FURNITURE.
67 GREEN ST.; 68, 70, & 72 WOOSTER ST., ABOVE BROOME,
NEW YORK.
G3- Broadway cars pass the door.

MINTON'S TILES.

PLAIN AND ENCAUSTIC,

FOR PUBLIC BUILDINGS AND DWELLINGS.

FOR PUBLIC BUILDINGS AND DWELLINGS,
As Islaid by us in
THE CAPITOL AT WASHINGTON,
And in numerous Churches, Banks, and Dwellings in every
part of the Country.
Glazed and Enamelled Tiles for Mantels, Hearths, Wain
scoting, &c., and for Exterior Decoration.
MILLER & COATES,

G AS FIXTURES OF EVERY DESCRIPTION. SPECIAL RATES TO BUILDERS. R. HOLLINGS & CO., 517 Washington St., BOSTON.

GALVANIZED IRON CORNICES, HAYES'S PATENT VENTILATING SKYLIGHTS, Campbell's Patent Chimpey Jacks, Window Caps, &c. Shitli & VAN NOOLDEN, 857 Harrison Avenue, Boston.

S. A. STETSON & CO., 173 Tremont St., OBLASS CHANDELIERS. Gas Pipe, and Fitting in all its Branches. Architects, Contractors, and Builders furnished with the lowest estimate.

NEW ENGLAND DRAIN PIPE COMPANY, 24 HAWLEY STREET, BOSTON, GLAZED SEWER, DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNEL STONES, &c. BENJ. KOYES, Agonta.

GEO. F. BLAKE MANUFACTURING CO.,

BUILDERS' SUPPLIES.

HAWTHORNE & TUCKER,

PLUMBERS.

PROVINCE STREET, BOSTON.

nates for Plumbing made, and work done in any part United States or Provinces.

FULLER, DANA, & FITZ, METAL MERCHANTS, IMPORTERS OF BOOFING PLATES AND IRON, USED IN BUILDINGS.

Exclusive Boston Agents for the sale of The Union Iron Mills' Solid Woucher Iron Beams, and The "Burden Best" Iron, Tensile Strength 78,000 lbs.

CAPE ANN GRANITE COMPANY GRANITE, BUILDING, ASIM MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAYING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., HOSTON.
Quarries: BAY VIEW, GLODGESTER, MASS.
JOEAS H. FREEGI, Pres.
R. H. BENKETT, Tress.
SCOTT WEBBER, Supt.

MOSES MELLEN & CO. 16 Bromfield ENAMELLED SLATE MANTELS AND SHELVES,
PARLOR GRATES, ENGLISH FLOOR AND WALL
TILES.

M. W. PEIRCE & CO.,
STEAM, GAS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREEK,
Lowest Estimates for furnishing Private and Public Buildings and Churches.

BEEHIVE BRAND FELT ROOFING for Flat Roofs. Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, REAR TREMONT, BOSTON.

HENRY B. JONES & CO. Importers, Jobbers, and Retailers of PAPER HANGINGS, 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
284 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858).
ORNAMENTAL EMBOSSED, AND CUT GLASS,
FOR HOUSES, STEAMBOATS, RALIROAD CARS,
OFFICES, &C., No. 256 West 14th St., New York.

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure air, without dust or cold draughts, and a apted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street. Boston.

FOR MARBLE FLOORING TILES, GEO. BARNEY, Swanton, Vt.

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

DESIGNER.

ECCLESIASTICAL DECORATOR

440 TREMONT STREET, BOSTON, MASS.

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHURCHES, AND PUBLIC BUILDINGS. No. 186 HARRISON AVENUE, BOSTON.

L. HABERSTROH, (Established 1848)
FRESCO PAINTER,
NO. 12 SCHOOL STREET, BOSTOK.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 9 HAMILTON PLACE,
Opp. Park-Street Church.
BOSTON.

WARNER BAILEY, Sign and Ornamental

POTTIER & STYMUS

MANUFACTURING COMPANY

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATIONS AND UPHOLSTERY.

LEXINGTON AVENUE, 41st AND 42D STREETS, NEW YORK.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.

HAVE for many years given their exclusive attention to FIER-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business:

FIRE-PROOF FLOORS. The only floors that have stood fire in this country. FIRE-PROOF ROOFS. Refer to Equitable Life Insur Company's Building at Boston.

Company's Building at Boston.

FIRE-PROOF SHUTIERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country. Minimum of metal, maximum of eithfines, maximum of clinch; the best lath ever made, either wood of iron." See New York Post-Office; State Department, Washington; Equitable Life Naturance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when

Insurance Company's Buildings, and many others.

Mr. Howr will be pleased to wait upon Architects, when
easired, to explain our methods, and to present for inspecion construction plans and estimates for any specific work

PROPOSALS.

GOVERNMENT SALES. — Sealed proposals are hereby invited for the purchase and removal of the following buildings erected by the United States Government in connection with the International Exhibition of 1876, viz.: 1. The Government Building at intersection of 1876, viz.: 1. The Government Building at intersection of Belmont and Founian Avenues, in Exhibition Grounds, built of frame timber, with iron roof truss, felt roof, and shown and the properties of the control in the control of the control

HOSPITAL AND ASYLUM WORK.—

Scaled Proposals will be received by the Board of Trustees of the Columbus Hospital for the Insane and the Ohio State Asylum for Idiots, acting conjointly, at No. 76 North High Street, Columbus, 0, until Thursday, Dec. 28, at 12 M., for furnishing the materials and doing the work upon System of Sewerage, Water-head and Supply for Columbus Hospital for the Jusane, and Ohio State Asylum for Idiots. Bids will be received I. For nall pipes and castings. 2, For excavating trenches and laying pipes, including the furnishing and laping of the sewer-pipes and back filling; also including earth fills. 3, For all materials and labor for a drain from boline-house of Columbus Hospital for Insane to main sewer. 4, For furnishing all the materials and d.ing all of the work connected with the building of the two pump and bolier houses, coal-houses, and smoke-stacks, filtering-basin, with water-ways, rip-ray work, and three ciscens. 5, For for the work can determ, suction, and discharge connections. 6, For boliers complete, including all brick work and foundations, all necessary fittings, connections, and feed-pumps. 7, For all valves needed, with castings and top covers. 8, For the work as a whole. Plans, specifications, profiles, and detailed drawings can be seen at the office of the Ohio State Asylum for Idiots during all business hours, where all information desired by the public will be furnished. Proposals will be directed to Dr. N. 8. Townsend, President of Board of Trustees of Columbus Hospital for Insane, at No. 76 North High Street. N. 8, Townsend of Board of Trustees, Columbus Hospital for Insane, at No. 76 North High Street. N. 8, Townsend of Doard of Trustees, Columbus Hospital for Insane.

A RCHITECTS, PLANS. — The Board of Di-rectors of the Mount Pulaski Public School will pays 5900 to the party furnishing the best plans and specifications for a Public School Building to accommodate 600 pupils Correspondence solicities. ommodate 600 pupils. F. D. CASS, Secretary of Board. espondence solicited. ount Pulaski, Logan Co., Ill.

PROPOSALS FOR STEAM HEATING
APPARATUS AND VENTILATING APPLIANCES.
—City of Providence. Scaled proposals will be received by
the City Hall Commissioners, at their office, No. 5 WhatCheer Building, for the Steam Heating Apparatus and
Ventilating Appliances, for the New City Hall Building,
Providence, R.I., until 12 o'clock, M. Dec. 23, 1876.
Plans, specifications, and form of proposal, will be furnished bona fide bidders on application to the Commissioners as above, or to the Architect, S. J. F. Thayer, No. 40
Wa er street, Boston.
Each bid must be accompanied with a bond in the aum of
\$3,000, that a contract will be signed within five days of the
acceptance of a bid.

The party to whom the contract may be awarded will be
required to furnish a salisfactory bond in the sum of \$10,000
for the fulfilment of the contract, which bond shall also remain in force two years after the last payment shall be due.
The Commissioners do not bind themselves to accept the
lowest or any bid. WRY HENRY G. RUSSELL, WILLIAM

PROPOSALS.

QUEBEC HARBOR WORKS.
PROPOSED WORKS AT THE MOUTH OF THE
RIVER ST. CHARLES.
Tenders will be received at the office of the Queber
Harbor Commissioners up to noon of Thursday, the first
day of February, 1871, for the construction of the following
works:

Tenders will be received at the office of the Quebee Harbor Commissioners up to noon of Thursday, the first day of February, 1871, for the construction of the following works:—

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.

2. A wall and an embankment, forming the North Quay of the proposed South Wet Dock.

3. The dredging out and the formation of a channel-way parallel to both walls.

4. The construction of cribwork at the end of the embankment next to the tias Works.

5. Cribwork and retaining-walls adjoining the Ballast entropy of the proposed eighty (90) feet entrance in the north wall of the South Tidal Harbor.

7. Hans, specifications, bills of quantities, and form of tender, can be seen at the office of the Commissioners along effice hours; and printed copies of the specifications and bills of quantities will be furnished to intending contractors upon making a deposit of fitly dollars, to be returned, after the tenders are opened, to parties sending in bona fide tenders.

None other than the printed form of tender issued by the Commissioners will be received.

The Commissioners do not bind themselves to accept the lowest or any totaler, find two respectable and responsible securities, to be approved of by the Commissioners, whose securities, to be approved of by the Commissioner, whose securities to be approved of by the Commissioner, whose entropy of the contract, and of any alteration, addition to, or modification thereof, that may be agreed between the Commissioners or their Engineer and the Contractor.

Tenders for these works will not be considered unless accompanied by an accepted by hic heck, or other available security, for the sum of \$3,000, which will be returned to unsuccessful competitors as soon as the contract Is awarded.

J. B. MARTEL, Secretary-Treasurer.

J. B. MARTEL, Secretary-Treasurer.

HARBOR COMMISSIONERS' OFFICE, QUEBEC, 20th November, 1876,

Valuable Scientific Books.

CHIMNEYS FOR FURNACES,

FIREPLACES, and STEAM BOILERS. By R. Armstono, C. E. 18mo, boards, 50 cents.

VENTILATION OF BUILDINGS.

WATER AND WATER SUPPLY.

By Prof. W. H. CORFIELD, M. A. 18mo, boards, 50 cents.

SEWERAGE AND SEWAGE UTILIZATION.

D. VAN NOSTRAND, Publisher,

23 Murray Street, and 27 Warren Street, New York.

* Copies sent free by mail on receipt of Price.

MASS. INSTITUTE OF TECHNOLOGY.
This school offers a four-years' scientific and professional training for Chemists. Metallurgists, Civil, Mechanical, and Mining Engineers, Architects, Teachers of Science,

sional training Engineers, Arcineess, and Mining Engineers, Arcineess, and Manufacturers.

The Coerse in Architecture embraces, besides the necessary scientific and mathematical studies, the study of architectural history, and the constant practice of original architectural history.

years' special course.

The work of the school is exhibited at Philadelphia, in the East Gallery of the Main Building.

For particulars address WILLIAM R. WARE, Esq., Professor of Architecture, or Dr. Samuel Kneeland, Secretary. Boston, Feb. 1, 1876.

NORTH AMERICAN REVIEW, OCTOBER, 1876.

ART. I.

THE SOUTHERN QUESTION, WILLIAM HENRY TRESCOT.

II. THE WHISKEY RING. H. V. BOYNTON.

III. VON HOLST'S HISTORY OF THE UNITED STATES. HERRY ADAMS and H. C. LODGE.

IV. AN EPISODE IN MUNICIPAL GOVERNMENT. The Shatering of the Tweed "Ring."

V. THE "INDEPENDENTS" IN THE CANVASS.

VI. CRITICAL NOTICES.

\$1 50 a Number; Yearly Subscription, \$6 00.

Sold by Booksellers and Newsdealers. Sent, post-paid, on receipt of price by the publishers,

JAMES R. OSGOOD & Co., BOSTON.

TO ARCHITECTS AND BUILDERS.

Any person or corporation wishing to invite competitive plans for new buildings will do well to address Architects through the advertising columns of the "AMERICAN ARCHITECT AND BUILDING NEWS."

Proposals for Building Materials of all descriptions, and announcements of interest to Architects, Builders, Decorators, etc., if advertised in this paper, reach a large number of

The Commissioners do not blind themselves to accept the lowest or any bid.

WM. G. R. MOWRY, HENRY G. BUSSELL, WILLIAM M. BALLEY, City Hall Commissioners.

THE

Quay

Quay
d-way
bankallast
y (80)
bor.
m of oners
conng in
y the
t the
ssible
chose
of relound
ulfilound

S.

RM-

N.

ŧ,

To est ul

BUILDING MATERIALS.		PAINTS AND OILS. Chalk
LATEST NEW YORK QUOTATIONS.	11 x 14 — 12 x 16 23 00 21 00 20 00 1 11 x 18 — 14 x 24 24 50 22 00 21 00 1	7 50 China ciay
Dec. 22, 1876. BRICK, Cargo Afloat.	15 x 24 ÷ 15 x 32 30 00 28 00 25 00 16 x 32 ÷ 20 x 30 32 00 30 00 26 00 22 x 30 ÷ 15 x 38 34 00 32 00 28 00	Zinc, white, American, in oil, pure. 111/2@ 12
Pale 37 M. \$2 75 @ 83 00	20 x 34 — 22 x 38 37 00 34 00 30 00 24 x 36 — 24 x 40, 40 00 36 00 32 00	Lead, white, American, in oil, pure. 101/2@ 10%
Jersey	21 x 42 - 28 x 42 44 50 40 00 36 00	Chre, French, dry (gold) 1 45 @
Hanorstraw Ray 5 50	30 v 50 32 v 52 48 50 44 50 40 00	Ochre, in oil (currency)
Haverstraw Bay, choice	34 x 58 — 34 x 60 55 00 50 00 46 00 36 x 60 — 40 x 60 60 00 55 00 52 00	Spanish brown, dry
Brick. FRONTS.	An additional 10 per cent will be charged for all a	ss., Vermilion, Am. Quicksilver (gold) 70 @ 721/4 class Vermilion, Trieste (gold) 1 00 @ 1 10 s in Carmine, American, gold 4 85 @ 5 50
Croton — Brown	more than 40 inches wide. All sizes above 52 inche length, and not making more than 81 united inches, be charged in the 84 united inches bracket	will Chrome vellow, genuine, dry 1244(a) 28
Croton - Dark — @ 9 00 Croton - Red — @ 10 00 Philadelphia 23 00 @ 27 00	Discount to the trade, 50 and 10 @ 50 and 10 and to cent.	Crome, yellow, in oil
Croton - Red.	AMERICAN WINDOW, per box of 50ft.	Putty, pure
For delivery, add \$5 on Philadelphia and Trenton, and \$6 on Baltimore.	6 x 8 - 10 x 15\$10 75 \$9 75 \$9 00 \$11 x 14 - 12 x 13 11 50 10 25 9 75	8 25 Sienna, burnt, American,
CEMENT. Rosendale	18 x 22 13 25 12 00 10 75	9 00 Sienna, raw, in oil 15 @ 95
Portland	125 x 30 — 24 x 30, 19 75 16 75 13 50	9 50 Umber, burnt. 4 @ 8 0 25 Umber, burnt, in oil 16 @ 21 Umber, raw 33\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Keene's coarse	21 x 28 - 24 x 30 20 25 17 50 14 00 26 x 36 - 26 x 44 22 78 20 25 15 50 28 x 44 - 30 x 50 24 00 21 50 16 75	
FIRE BRICK.	28 x 44 - 30 x 50 24 00 21 50 16 75 30 x 52 - 30 x 54 27 25 24 00 18 75 30 x 56 - 34 x 56 29 50 26 25 22 00	— Black, Lamp, ordinary
Red Welsh \$35 00 @ 36 00 Scotch 35 00 @ \$40 00 American 30 00 @ 40 00	34 x 58 - 34 x 60 31 50 20 50 27 50 36 x 60 - 40 x 60 37 00 32 50 29 50	PLASTER PARIS.
DOORS, WINDOWS, AND BLINDS	Above \$12 per box extra for every five inches. Discount, 70 @ 75 per cent.	Duty20 per cent. ad val. on calcined; lump, free. Nova Scotia, white
DOORS, RAISED PANELS, TWO SIDES. 2.0 x 6.0	Also sold at 60@ 60 and 5 from French list. Greenhouse, Skylight, and Floor Glass.	Calcined, Eastern and city D bbl. 1 25 @ 1 50
2.0 x 6.0	Per square foot not each	Calcined, city casting 2 00 (a) 2 25
2.8 x 6.8 1½ 1 25 — Doors, Moulded.	Fluted plate \$0 22 4 Rough plate \$3 - 4 Rough plate \$4 Rough pla	1 00 SLATE. Delivered at New York. 1 15 Purple roofing slate,
Size. 1½ in. 1½ in. 1½ in. 1½ in.	% Rough plate bull % Rough plate	
2.6 x 6.6 1 87 \$2 38	FOREIGN WOODS. — Duty free,	Black slate, Pennsylvania (at Jersey City)
2.6 x 6.10	Cube Deuporticial foot 6 7 @ 6	8 Slate tiles, 1½in., rubbed, P sq. ft. delivered. 20 @ 25
2.8 x 6.8 2.00 2.58 \$3.18 2.8 x 7.0 2.09 2.68 3.34 2.10 x 6.10 2.00 2.78 3.54	Mexican, small	11 SOLDERS. No. 1
3 0 x 7.0 2 30 3 02 3 74	St. Domingo, crotches, orumary to	1278
GLAZED WINDOWS. Dimen- 12 Lights. 8 Lights. 4 Lights.	St Domingo crotches fine 0.50 @ 0	75 I. C. charcoal 10 v 14 37 hov (cur) 48 95 @ 48 50
sions of Windows. 14pl. 14cc. 14cc. 14cc. 14cc. 14cc. 14cc.	St. Domingo, logs, small. 0 7 @ 0 St. Domingo, logs, large 0 15 @ 0 Cuba, logs, small. 0 9 @ 0 Cuba, logs, small. 0 9 @ 0 Cuba, logs, large. 0 20 @ 0	25 I. X. charcoal, 10 x 14 10 50 @ 10 75
2.1 x 3.6\$1.00 1.08 — — — — — — — — — — — — — — — — — — —	Cuba, logs, large 0 20 @ 0 Frontera, Mexican, large 0 12 @ 0	10 11. U. COKC, 14 X 20 0 10 (a) 8 00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Frontera, Mexican, large	10 I. C. coke, terne, 14 x 20
2.7 x 5.6 1.84 2.02 2.08 2.26 2.31 2.49 2.7 x 5.10 1.94 2 13 2.19 2.38 2.43 2.62	Rosewood.	Sheet (mold) 10 B. 40 001 @ 40 001
2.10 x 4 61.59 1.66 1.80 — — 2.03 2.17 2.10 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53	Rio Janeiro, ordinary to good Plb. 0 2½@ 0 Rio Janeiro, good to fine 0 4 @ 0 Rebia ordinary to good.	6 ⁷² LEAD.
2.10 x 5.61.88 1.96 2.19 2.16 2.39 2.42 2.65 2.10 x 5.102.09 2.18 2.42 2.31 2.55 2.58 2.82	Bahia, ordinary to good 0 2½ 0 0 Bahia, good to fine 0 3 0 0 4 0 0	5 Sheet 0 9
cc means counted checked, plowed and bored for weights.	Honduras 0 4 @ 0 Satinwood	
Hot-Bed Sash, Glazed	Lignumvitæ, small,	00 Duty Bar. 1 to 114e. W #s: Railroad, 70e. W 100 h:
Per lineal foot, up to 2.10 wide	LATH. — Cargo rate	Scrool, 1% to 1%c. P h; Pig, 87 P ton; Polished Sheet,
Per lineal foot, up to 3.1 wide	Pine, very choice, and extra dry, PM ft. \$60 00@ \$70 Pine, good	Scrap Wrought, \$8 P ton — all less 10 per cent. No Bar
Inside Blinds. Per lineal foot, 4 folds. Pine	Pine, common box	Pig, Scotch, Coltness
Per lineal foot, 4 folds, Pine	Pine, tally plank, 13, 10in., dres'd each Pine, tally plank, 13, 2d quality 35@	43 Pig, Scotch, Glengarnock
Per lineal foot, 4 folds, Black Walnut — @ 1 20 Window Frames.	Pine, tally planks, 1%, culls	28 Pig. American, No 1
Up to 3.4 x 7.2, put together @ 2 65	Pine, tally boards, culls 23@	24 Bar, refined, English and American
HAIR.—Duty free. Cattle	Pine, strip boards, clear 25@	20 Bar, Swedes, assorted sizes (gold) —@ 100 00 Store prices, cash. 38 Bar, Swedes, ordinary sizes
LIME.	Spruce boards, dressed	Bar, Swedes, plow sizes
State, common, cargo rate	Spruce plank, 2in	38 in. x ½ to lin
Rockland, common	Spruce timber	00 Bar, refined, 1 & 1 \(\) \
Ground	Hemlock joist, 2½ x 4	Dat, Felhical, % to 2th, Fd. & #1.—1 to 0
GLASS. Duty. — Window, Polished Cylinder, and Crown, not	Hemlock joist, 4 x 6 40@ 45 Ash, good 40 M ft. 38 00@ 45 Oak 40 00@ 50 Maple 25 00@ 50	00 Horseshoe
over 10 x 15in., 2½c. P sq. ft.; larger, and not over 16 x 24in., 4c. P sq. ft.; larger, and not over 24 x 30in., 6c.	Chestnut boards, lin	00
	Chestnut plank	THE BOSTON MARKET.
Cynnaer, Crown, and Common window, not exceeding 10 x 15in., sq., 1½c.; over that, and not over 24 x 30, 2½c.; all over that, 3e.	Black Walnut, good	
Ib. FRENCH WINDOW. List of March 1, 1876.	Black Walnut, selected and seasoned110 00@ 150 Black Walnut counters	35 10d \$3 20
SINGLE THICK - per box of 50ft.	Black Walnut counters	00 8ff 4 75
Sizes. 1st. 2d. 3d. 4th. x 8 — 7 x 9\$11 00 \$10 50 \$10 00 \$9 50 15 x 10 — 10 x 15 12 00 11 00 10 50 10 00	Whitewood, inch	2 in., Pennsylvania make
16 x 14 — 12 x 16 13 50	Sningles, extra snaved pine, 16in 8 50/00 9	8ASH WEIGHTS
18 x 24 — 15 x 32 17 00 16 00 14 00 13 00	Shingles, extra sawed pine, 18in 7 00@ 8	00 SASH LINE. P lb, 50 Best hemp
21 x 30 — 15 x 38 19 50 18 00 16 00 — 21 x 34 — 22 x 36 20 50 19 50 17 00 —	Shingles, clear sawed pine, 18in	00 DOOR BUTTS.
24 x 36 - 24 x 40 23 00 20 50 18 00	Vellow nine girders	Size — 42 x 45 5 x 5
26 x 46 — 30 x 48 26 50 23 50 22 00 —— 30 x 50 — 32 x 52 28 00 25 50 23 00 —— 32 x 54 — 34 x 56 29 00 27 00 24 00 ——	Locust posts, 10ft 24@	Ornamental Bronzed Iron, 1 50 1 75 P pair.
32 x 54 — 34 x 56 29 00 27 00 24 00 — 34 x 58 — 34 x 60 31 50 29 00 26 00 — 36 x 60 — 40 x 60 35 00 32 00 29 00 —	Chestnut posts	Ornamental Bronze Metal, 3 60 4 00 pp pair. [CONTINUED ON NEXT PAGE.]
	Compo suspense to hot come our	

THE BOSTON MARKET-Continued.

Builders' Hardware.

MORTISE LOCKS — Brass face and bolt — easy DOOR KNOBS.

SCREWS.
Round head, nickel plated \$2 25 \$2 90 for window beads, 114 11/2 in. STORE DOOR HANDLES - with mortise is

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash

For Insane Hospitals, Fire Proof Buildings, &c.



Sashes gives perfect security without its that have a prison-like appearance and both architects and medical superin-

D. M. MEEKER & SON. Newark, N.J.

Fine Castings of Malleable and Gray Iron, German Silver and Composition; also Patterns a specialty.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl

It can be introduced at the cost of the ordinary wash-bowl

This guaranty accompanies every basin sold to our

L. S. MOORE & CO., 40 Oliver Street, Boston



SCOTCH AND AMERICAN

Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS.

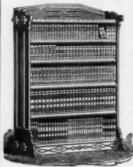
Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile.

American, Roman, and Portland Cement. LIME, SAND, &c.

WALDO BROTHERS,

No. 94 Water Street, Boston

PINGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and West of the Artise. Twenty-four Plates, reproducing with Works, including "The Challester and Deer," "The King of the Porest," "The Monarch of the Gien," "High Life," "Law Life," "Lawing Down the Law," "Shoeing the Bay Mare," and others of equal beauty, Quarte. Price, \$10.00.



Useful if not indis-Architect's Office.

The Portable BOOKCASE.

Eastlake Pattern. (Patented),

Strong, durable, Holds from 150 to 300 volur White Pine, \$16 and \$21; Black Walnut, \$20 and \$25. Call and examine it.



The Harvard Book-Rack, Holds from 20 to Substantial, tasteful, durable. Price, in neat box, \$1.00.

LOCKWOOD, BROOKS, & CO.,

381 Washington St., and 10 Bromfield St.,

BOSTON.



HEADQUARTERS

PARLOR GRATES.

THE ONLY

MANUFACTURERS

NEW ENGLAND.

Large Assortment of the Latest Improved Designs.

Dumping and Shaking Grates. BRASS FENDERS AND ANDIRONS OF ANTIQUE

We guarantee our goods to be the BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty. Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalo

MURDOCK PARLOR-GRATE CO.,

11 Marshall Street, Boston

Springfield Gas Machine.

ANDREW C. PAUL,

119 Court Street, Boston.

TO INTERIOR DECORATORS.

nt advertising Medium for yo AMERICAN ARCHITECT AND BUILDING NEWS.

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

Invented 1850.

SPECIMENS OF TWENTY-FIVE YEARS' STANDING an he shown looking much fresher than any other paint of kny orans.

can be shown looking much fresher than any owner paints of two years.

It emits no poisonous gas like other paints while drying. Its surface is a perfect enamel, from which any specks of dirt may easily be removed.

It is unequalled for beauty, durability, and economy.

OFFICE AND STORE 145 MILK STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos

by COREGIO and Parisegrates. From Freedows
by Correction of the Heliotype Process from the "Gray Collection of Engravings." Harvard University.
This volume contains twenty-four Plates, including Parmegiano's Saint Agatha, Saint Lucia, and Saint Apollonia,
Two Deacons, and Saint George. Of Correggio's Frescos, it
includes the Madonna della Scala, Diana in a Chariot, The
Coronation of the Virgin, groups of Cherubs and Angels,
A rare and valuable collection. Quarto. Prics. \$10.00.

JAMES B. OSGOOD & CO., BOSTON.

INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131 133, & 135 Shawmut Avenue.

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

National Fine Art Foundery,

218 East 25th Street, New York Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects.

Artistic Monuments in Granite and Bronze.

Admirably adapted for School and Home Instruction, and very APPROPRIATE FOR THE HOLIDAYS.

WHITE'S

PROGRESSIVE ART STUDIES Just Ready;

> WHITE'S Primary Drawing,

> > GUIDE POINTS.

This series is a part of the cour e of WHITE'S FRO-GRESSIVE ART STUDIES, which have been received with so much favor. It is comprised in its Cards, enclosed in an envelope; A MAVAL OF INSTRUCTIONS for the teacher, and packages of EXERCISE PAPER, containing 50 sheets each.

Manual Exercise Paper, per package . . .

Samples of a set of the Cards, and the Manual, if desired for examination with a view to introduction, will be sent on receipt of 15 cents each.

A Pronounced Success!

WHITE'S ART STUDIES.

BY GEO. G. WHITE, PROFESSIONAL ARTIST.

A thoroughly Practical System of Drawing for Schools and Private Learners, by an eminent artist.

"Mr. White has shown an ability hardly less than genius in the preparation of his Art Studies." — ATLANTIC MONTILY.

WHITE'S PROGRESSIVE ART STUDIES are issued in the form of Cards, neatly incased in envelopes containing twelve each, with an accompanying Manual of Instructions, and duplicate sheets of blank Drawing Paper.

NOW READY.

*.*We shall be pleased to send samples of the Art Studies for examination with a view to introduction, on receipt of 30 cents each.

Send for full Descriptive Circulars containing many testi-

. THE EDUCATIONAL REPORTER for Septemb containing full particulars of our New Books, and much v uable educational information of a miscellaneous charact will be sent to teachers and educationists on application.

Ivison, Blakeman Taylor, & Co.

EDUCATIONAL PUBLISHERS.

138 and 140 Grand St., New York. 133 and 135 State St., Chicago.

S

ıe,

E.

gs,

7118

me DR

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF STATIONERY

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE

TRACING CLOTH. TRACING PAPER,

MOUNTED PAPERS, Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper, Rubber and Wood Triangles,

T-Squares,

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.





[ESTABLISHED 1844.] PARLOR GRATES

For Health and Comfort. Made low or half low down with the celebrated dump attachment.
ed for hard or so
wood. The fines
ent in New Engli

H. M. CREAMER. 86 North Street, Boston

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship,

180 Washington St., (New No. 364.)

BOSTON

E. Hixon,

Fred. Reed,

E. Hixon, jur





J. & R. LAMB,

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purposes telusively Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free od Work | M. tal & Ston ; Work | Banners & Decoration of cts. | 10 cts.

BURDITT & WILLIAMS.

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

or own patterns, or from architects' drawings.

20 DOCK SQUARE, BOSTON,
MANUFACTORY 19 WARRHAM STREET.



ROETH & MAY. FURNITURE

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books

Mailed free to any address.

All architectural and Scientific Be A. J. BICKNELL & CO., ARCHITECTURAL BOOK PUBLISHERS, 27 WARREN STREET. NEW YORK.

W. J. McPHERSON & CO.

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

AGENTS.

Boston.—Parsons & Torry, 68 Washingon st; Pitkin Bros.
3 Charlestows st; Allen & Noble, 94 Hanover st; Bogman & Vinal,
Dock sq; Farless & Boynton, 18 Coruhill; Gardner & Chandler,
23 Washington st; B. L. Solomon & Sons, 49 Franklin street.
Providence, R. I. — Belcher Bros. 27 Weyboscet st.
New York City. — A. Hammacher & Co., 298 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 229 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 229 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 229 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 229 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 229 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 229 Bowery;
J. Tillotton & Co., 8 Dey st; O. A. Nathusius, 239 Bowery;
J. Tillotton & Co., 8 Stock, 16 Wooster steer,
J. Hanger, J. Marrice E. Viele, 41 State st.
Rochester. — Pollote, Weaver, & Co., 17 Buffalo st.
Ratfalo. — C. H. Utley, 32 Pearl st.
Philadelphia. — Thomas Thompson, Sons, & Co., 240 S. 2d;
(Noblit, Brown, Noblit, & Co., 228 S. 2d st; B. L. Middicton, 817;
(2) st; B. L. Solomona & Sons, 31 N. 2d st; F. A. Bareru, 432 E.
Jamphin st; Thomas Knight & Co., or. Cal ave, and Green st.
Pittsburg. — Joseph Woodwell & Co., or. 2d ave, and Green st.
Ratfitmore. — C. Sidney Norris & Co., 30 Hanover st; John beer & Sons, 13 South Charles st, Wardfeld & Bohre, & S. Sharp n.
Einchmant. — Glasceler & Kullman, 534 Main st; J. L.
Clinchmant. — Glasceler & Kullman, 534 Main st; J. L.
Clinchmant. — Glasceler & Kullman, 534 Main st; J. S.

Dambin st. Thomas Knight & Co. cor. Ridge ave, and Green st.
Pittsburg.—Joseph Woodwell & Co. cor. 2d ave, and Green st.
Battimore.—C Sidney Norris & Co. 36 Hanover st. John
Duce & Sons, 24 South Charles st, Warfield & Bohr, & So. Sharp st.
Cleweland, G.—George Worthington & Co. 39 Water st.
Wh. Bingham & Co. 18 Water st.
Ribbin and Co. 18 Water st.
Ribbin and Co. 18 Water st.
Wayne & Son. 12 Main st.
Chicago.—J. L. Wayne & Son, 74 Handolph st. A. A. Ullrich
& Co. 16 Fifth aver J. Liebenstein & Co. 22 Handolph st.
Betroits.—Geo. A. Rubeimann & Co. 87 N. 681 st.
Warshington.—F F. Nay & Co. 68 Fenneyinnia evenue.
Manhington.—F F. Nay & Co. 68 Fenneyinnia evenue.
Montreal.—James Walker & Co. 168 St. James st.
Quebec.—S. J. Shaw & Co., 78 J. James st.
Hamilton, Ont. — Watson & Thompson, 16 McNab et.
237 Our goods can be purchased of the above Agents at the
same prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



The New England Cabinet Organ, FOR CHURCH, HALL, AND HOME USE.

No. 1299 Washington Street,

TAINED GLASS WORKS,

S. P. TOLMAN & E. A. HUNTING,
GENERAL AGENTS. PARTICULAR attention given to Repairing and Leasing Estates and the Collection of Rents.

440 TREMONT STREET, BOSTON, MASS.

1223 Washington Street,

BOSTON.

S. P. TOLMAN & E. A. HUNTING,
GENERAL AGENTS. PARTICULAR attention given to Repairing and Leasing Estates and the Collection of Rents.
MORTGAGES NYGOTIATED NO. II BROMFIELD
STREET, BOSTON

The American Architect and Building News.

PU	BLIS	HED WEEKLY B	Y	
JAMES	R.	OSGOOD	&	CO.,
Wirmman C.		_		Doomon

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART, DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy; \$7.50 per year; \$6.00 in advance.

RATES OF ADVERTISING On the first page, and pages next to editorial matter, 12)

cents per line	(agate), or	\$1.75	2 1	per	23	ach	(1	OWI	rte	en	lines	one
insertion.												
One inch.	one mont	h .					0				\$7 00	
One inch.	, three mor	nths		0	0							
	nine mon				0	0					58 00	
	one year											
On other pap	ges 10 cen	is pe	2	line	3	BAC	h	ins	E	tic	n, or	\$1.40
per inch.												
	one mont	h .			0	0	0	0			\$5.60	
	three mor	iths			0		0	0	0	.0	16.00	
One inch.	, nine mon	ths	0	0	0		٥			×	46.00	

One inch, one year.

No extra charge for cuts, or for advertisements that occupy more than one column in width.

Publishers' Department.

Classified Advertisements.

The following is an alphabetical list of the advertise ments which appear in this number of the AMERICAN ABCHITECT AND BUILDING NEWS. Our columns furnish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to cataprofessional men have little time to attend to enta-logues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ABCHITECT affords this to the special classes to whose interests it is devoted, and therefore a want which has been long felt is now filled. Advertisers will at once appreciate the excellence and convenience of the arrangement.

ARCHITECTS' AND ENGINEERS' STATIONERY, &c.

Wadsworth Bros. & Howland, Boston
ARCHITECTURAL BOOKS.
A. J. Bicknell & Co., New York
ARCHITECTURAL IRON WORK.
Bartlett, Robbins, & Co., Baltimore, Md
ARCHITECTURAL SCHOOL.
Mass. Institute Technology, Boston
ARTIFICIAL WOOD ORNAMENTS.

ZA Bi L	IFICIAL WOOD ORNAMENTS.
7	W. B. Gleason & Co., Boston
BRIG	CKS.
5	Sayer & Fisher, Newark, N.J
BRO	NZE DECORATIONS.
3	National Fine Art Foundery, New York
Bun	LDERS AND REAL ESTATE IMPROVERS.

Tolman & Hunting, Boston	V
BUILDERS' HARDWARE.	
Burditt & Williams, Boston	T
BUILDERS IN IRON.	
George Dwight, Jr. & Co., Springfield	ii
BUILDING STONE.	

Charles P. Williams, New York
Cape Ann Granite Company, Boston
CABINET FURNITURE AND UPHOLSTERY.
Edward Hixon & Co., Boston
CHURCH AND HALL ORGANS.

New England Organ Co., Boston	
CHURCH FURNITURE.	
J. & R. Lamb, New York	
Braman, Shaw, & Co., Boston	٦
CHURCH ORGANS.	

E. & G. G. Hook & Hastings, Boston	i
CONTRACTORS AND BUILDERS.	
W. H. Warren, Boston	vi
Mend, Mason, & Co., Boston	vi
C. H. Hall, Boston	vi
Descripe and Wood Propagation	

DIFFERE	NTIAL PULI	EY BLOCKS.	
Yale	Lock Manuf	g Co., Stamfor	rd, Conn
DRAIN I	TPE.		

DRAIN PIPE.	
N. E. Drain Pipe Co. Boston	i
Waldo Brothers, Boston	iv
ELECTRIC BELLS, ANNUNCIATORS, &c.	

	8.	W.	Fuller,	Boston
EL	EV.	ATO	RS.	
	T	afta'	Elevat	or Works, Boston
E'e	mer.	150	DE STE	AM ENGINEER Son

E-LEV.	ATOES,	STEAM	E.NG1	NES, &C.	
M	hittier	Machine	Co.,	Boston	
FELT	ROOFI	NG.			

N. E. I	elt l	Kooni	ig Co.,	Rosto
FIRE-BRIC	K A3	ED CE	HMNEY	-Tops
Waldo	Brot	hers,	Boston	

FIRE-PROOF	В	UILDING	B.			
Fire-Prec	£	Building	Co.,	New	York	

	FURNITURE AND DECORATION.
	E. H. Brabrook. Roeth & May, Boston.
	Lawrence, Wilde, & Co., Boston
	FURNITURE, WOOD MANTLES, &c. C. J. Soyard, Boston
	FRESCO PAINTERS.
	W. J. McPherson, Boston Philip A. Butler, Boston
	Wallburg & Sherry, Boston
	L. Haberstroh, Boston
	William S. Brazer, Boston
	GAS FIXTURES. R. Hollings & Co Boston
	GAS MACHINES. Andrew G. Paul, Boston
	INTERIOR WOOD-WORK, DECORATIONS, &c. Pottier & Stymus Manufacturing Co., New York.
	IBON BRIDGES. King Iron Bridge and Manu'f. Co., Cleveland, O
ļ	IRON CORNICES.
ĺ	Smith & Van Noorden, Boston
ĺ	IRON MERCHANTS.
1	John H. Pood & Co. Poston

John H. Reed & Co., Bosto IRON WORK FOR BUILDINGS. J. B. & J. M. Cornell, New York

New England Linen Hose Manuf'g Co., Boston.
LOCKS AND BRONZE HARDWARE. Yale Lock Manufacturing Co
MARBLE FLOORING TILES.

1	George Barney, Swanton, Vt	ii
	MARQUIS BASKET HOPPER. J. L. Mott, New York	vii
	ORNAMENTAL AND CUT GLASS.	
	2 0 1 27 27 1	**

REAL	HENTA	L AND	CUL	CHAR	3/34		
J.	Cartis	ser, Ne	w You	rk			
RNAI	MENTA	L BROX	NZES.				
Mi	tchell,	Vance	& C	., Ne	wY	ork	

	Mitchell, Vance & Co., New York						
	Archer & Pancoast Manuf g. Co., N	lev	r	Y	0	rì	Ž
DEN	MAMENTAL IRON WORKS.						
1	Bubier & Co., Boston						
1	Bartlett, Robbins & Co., Baltimore						4

Asahel Wheeler,	Bo
PAPER HANGINGS.	
H. B. Jones & Co	log

H. B. Jones & Co., Boston	ii
PABLOR GRATES.	-
H. M. Creamer, Boston	v
PARLOR GRATES, BRASS FENDERS AND IRONS, &c.	
Mundack Davier Conta Co Baston	8

	TOTAL CARE	REALITY B	AND PROPERTY OF	F. WHAT TAKES	SALES SECURED TO	۰
	Murdock	Parlor	Grate	Co., B	oston	
PE	UMBERS.					
	Hawthorn	ne & T	ucker,	Boston		

L	UMBER	19 D	UPP	LIES.			
	Jenni	ings'	Sani	itary	Depot,	New	Y
Ro	OFING	PLA	TES	AND	META	LS.	
	99. 99.	-	- 4	. 1790	- 93	-	

E.	uner,	Duna,	06	cius,	DOS
SCIE	TIFIC	Boon	KS.		
D	. Van	Nostr	and	L	
~		·			

SHUTTERS	(ROLLING	Woo	D).
Wilson	& James,	New	Yor
SHUTTERS	(STEEL).		

C	lark &	& Co.,	New	You	k				
L	Vilson	& Ja	mes,	New	Yo	rk.			
SIGN	AND	ORNA	MEN	LAL	PA	LX1	E	R8	i.

SIUN AND CHARMENIAD & ALM LEND.	- 1
Warner Bailey, Boston	11
SKYLIGHTS.	
The Hayes Patent, New York	illi
Smith & Van Noorden, Boston	i
SLATE MANTELS &c.	- 1

LATE	MANTELS	, &c.			
J. V	V. Grigg.	Boston	 		,
Mos	es Mellen	& Co.,	 	***	,
SLATE !	PAINT.				

74CM	I OUR	SHIP .	T SPITTI	COL	TAGM	YOUR
SPRING	HINGI	E8.				
Am.	Spring	Butt	Co.,	New	York.	
STAINE	GLA	se.				

	the appearer marcy				
W. J.	McPherson &	& Co.	, Bo	1610	n.
Chas.	Booth, Oran	ge, N	J		
Kelley	& Holland.			***	
99					

STEAM HEATING	APPARATUS.
	ros., Boston
Walworth Ma	nufacturing Co
STEAM PUMPS.	

iv

..... iv

Geo. F. Blake Manufacturing Co., Boston	1
STONE DRESSING WORKS.	
George Brown, Newark, N.J	ii
TILES.	

T. Aspinwall, New C. A. Wellington, I	York.		***			 	* *			
VENEERS.										
Palmer, Parker, &	Co., B	oston	• •	• •	 	 0	0 1	0 0	0 6	

	. werennessed we-			
HITE'S	ART STUDIE	08.		
Ivison	, Blakeman,	Taylor, &	k Co	0
INDOW	SASHES.			

WELLINGTON'S	PATENT WASH	-BOWL	
L. S. Moore	& Co., Boston	***********	
WOOD CARPET	ING, &c.		

Heliotypes and Books for the Holidays.

During the holiday season, Messrs. James R. Osgood & Co. will occupy the capacious store No. 387 Washington Street (near the head of Franklin) where they will display a large and varied stock of their book and heliotype publications.

The assortment in the heliotype department will embrace all the choice works published by Messra. Osgood and Co. during the past three years, including engrav-

brace all the choice works published by Messra. Osgood and Co. during the past three years, including engravings from the paintings of the most eminent modern artists. and the most renowned ancient masters, represented in the "Gray Collection" at Harvard College in This exhibition will afford a most excellent opportunity of the public to examine the splendid productions of the heliotype process, and to secure at very reasonable prices some of the most elegant holiday gifts ever offered.

In the book department will be found the standard works published by Messrs. Osgood & Co., besides several works of exceptional attractiveness but recently issued. Among these may be mentioned "The Skeleton in Armor," by Longfellow, superbly illustrated by Miss Hallock, with border designs by Ipsen, and the engraving from the master hand of Anthony. This is acknowledged to be the most beautiful gift-book of the year; superior in some respects to "Mabel Martin," and "The Hanging of the Crane." The works of Tennyson, Longfellow, Emerson, Whittier, Holmes, Lowell, and numerous other American authors, will be presented in great variety and attractiveness. Among the later publications especially appropriate for the holidays, may be mentioned Aldrich's "Flower and Thorn," "Tales of Two Hemispheres." by Boyesen; "Three Centuries of Song," edited by Whittier, "Powers of Places," edited by Longfellow, "That New World," by Mrs. J. J. Plack; "Soashore and Prairie," by Mrs. Mary P. Thacher; and "In the Levant," the latest work of Charles Dudley Warner.

It is unnecessary to further particularize; but the public will doubtless be convinced from the foregoing, that No. 387 Washington Street, Boston, will be a very attractive resort during the next four weeks.

A New Volume of Poetry.

Messrs. Osgood & Co. have just issued a new volume of poetry, entitled "That New World, and Other Poems," by Mrs. S. M. B. Piatt, author of "A Woman's Poems," and "A Voyage to the Fortunate Isles." man's Poems," and "A Voyage to the Fortunate Isles."

iv l. vol. 16mo, \$1.50. This is a volume which will be leartily welcomed by all lovers of true pootry. Under the general title of "That New World," — which is also the special title of the leading poem, — is grouped a collection of poems referring to such longings, hopes, and fears, dreams and doubts, faith and trust, as are entertained at various times by many people concerning a future life. Among these, as more or less related, are one of the summary of the volume comprises a number of striking poems, of more varied sentiment and interest. The third and last part contains a little group of characteristic poems, many of which are likely third third the summary of the propular, described under the phrase "With Children."

Tales of Two Hemispheres

Tales of Two Hemispheres.

James R. Ozgood & Co. have published in the "Saunterer's Series," a new work by H. H. Boyesen, the popular Norwegian author, under the above title. It contains six charming stories, on Old and New World subjects, which are told with remarkable grace and attractiveness. Speaking of the leading story, "The Man who lost his Name," the New York Evening Post said: "Its author has done other work as clever as this, but nothing that we can recall which has shown so much strength." I vol. 8vo, \$1.25.

The Kittredge Cornice and Ornament Co.,

The Kittredge Cornice and Ornament Co.,

Of Salem, O., has published "The Compendium of
Sheet-Metal Work," which is profusely illustrated with
designs of the goods manufactured by them. The
book comprises more than five hundred pages, and
gives prices, rules, and directions for estimates, items
of cost of their various ornaments, &c. The Compendium is a very convenient publication for those who
desire to use the materials made by the Kittredge
Cornice and Ornament Co.

Heliotype Art-Works.

James R. Osgood & Co. announce the following Heliotype Art Works for November and December; each containing 24 full-page Heliotypes, with descriptive letter-press, Large 4to. Tastefully bound. Price on his

i Tiles.

T. Aspinwall, New York.

C. A. Wellington, Boston.

VENEERS.

Palmer, Parker, & Co., Boston.

VENTILATION.

W. H. Kimball, Boston.

WHITE'S ART STUDIES.

I Vision, Blakeman, Taylor, & Co...

Window Sashes.

D. M. Meeker & Son's, Newark, N.J.

Wellington's Patent Wash-Bowl.

L. S. Moore & Co., Boston.

Wellington's Patent Work for November and December; each containing 24 full-page Heliotypes, with descriptive each solution. The State of the Containing 24 full-page Heliotypes, with descriptive each containing 24 full-page Heliotypes, with descriptive of the page Heliotypes, with descriptive each containing 24 full-page Heliotypes, with descriptive of the sufference and page 450. Tastefully bound. Price of each space 24 for Tastefully bound. Price of Enterprises 24 full descriptive each containing 24 full-page 460. Tastefully bound. Price of each space 24 for Tastefully bound. Price of Enterprises 24 full descriptive each containing 24 full-page 460. Tastefully bound. Price of Enterprises 24 full descriptive each containing 24 full-page 460. Tastefully bound. Price of Enterprises 24 full descriptive each containing 24 full-page 460. Tastefully bound. Price of Enterprises 24 full descriptive each containing

and

good grav-dern

pre

dard

ie,"

der dso

eol-and ter-g a

ent tle ely ith

the



THE BASKET
SLOP HOPPER is the
neatest and mest
useful article that
can be devised for
what it is intended: what it is intended:
it can be placed in
the yard, in the
washroom, or in the
kitchen, as it is
trapped, and no
smell can come from the sewer, and the Basket or Re-ceiver can be re-moved to carry away the rubbish. Manufactured at

J. L. MOTT IBON WORKS, New York.

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by

Patent Slate Paint,

MIXED READY FOR USE.

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, by application of this slate, be made to last from twenty-five twenty-five years. Old roofs can be patched and coated, looking much better, and lasting longer than new shingles without the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the cost of simply laying toem. The paint is FIRE-PROOF against sparks or flying embers, as may be easily tested by any one

IT STOPS EVERY LEAK,

and for tin or iron has no equal, as it expands by heat, contracts by cold, and NEVER CRACKS nor scales. Roofs covered with Tar Sheathing Feit can be made water-tight at a small expense, and preserved for many years.

This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a hundred square feet of shingle roof, while on tin, iron, felt, matched boards, or any smooth surface, from two quarts to one gallon are required to 180 square feet of surface; and although the paint has a heavy body, it is easily applied with a brush

No Tar is used in this Composition,

therefore it neither cracks in winter, nor runs in summer. On decayed shingles it fills up the holes and pores, and gives a new, substantial roof that will last for years. Cuello or WARPED shimles it brings to their places, and keeps them there. It fills up all holes in felt roofs, stops the leaks, and, although a slow dryer, rain does not affect it a few hours after applying. As nearly all paints that are black contain TAR, be sure you obtain our GENLINE article, which (for shingle roofs) is

CHOCOLATE COLOR,

when first applied, changing in about a month to a uniform slate color, and is to all intents and purposes SLATE. On

TIN ROOFS

our red color is usually preferred, as one coat is equal to five of any ordinary paint. For

BRICK WALLS

our BRIGHT RED is the only reliable Slate Paint ever introduced, that will effectually prevent dampness from pentrating and discoloring the plaster.

These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.

Our only colors are Chocolate, RED, BRIGHT RED, and ORANGE.

NEW YORK CASH PRICE-LIST.

 8 gallons, can and box
 \$5.56

 10
 keg.
 9.58

 20
 half barrel
 16.60

 40
 one barrel
 30.0e

We have in stock, of our own manufacture, roofing materials, &c., at the following low prices: —

1000 rolls extra Rubber Boofing, at 3 cents per square foot Or we will furnish Rubber Boofing, Nails, Caps, and Slate Paint, for an entire new roof, at 49, cents per square foot. 2800 rolls 2-ply Tarred Boofing Felt, at 1% cents per square ot. 3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square

foot.
200 rolls Tarred Sheathing, at & cent per square foot.
1000 barrels Slate Flour, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$3.00.
500 barrels Grafton Mineral, per barrel, \$3.00.
5000 gallons fine Enamel Paint, mixed ready for use, on In-lés or outside work, at \$2.00 per gallon. Send for sample card of colors.

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unless express charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

CHURCH AND LODGE



FURNITURE,

ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUFACTURERS OF FINE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES,

WHICH COMPRISE

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble),

ROOFING SLATES, SLATE URINALS. **BLACKBOARDS** FOR SCHOOLS, &c.

Parlor Grates, Frames, and Registers

JOSEPH W. GRIGG.

No. 59 Bromfield Street, Boston.

"ZODTCHY" (BUILDER).

A JOURNAL OF ARCHITECTURE, FINE ARTS, AND ENGINEERING,

Published, since 1873, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. l'eteraburg.

MONTHLY EDITION.

Each number contains from Eight to Sixteen pages of letterpress, gr. quarto, with cuts, and at least five autographic chromo-lithographic plates, the titles in both Russian and French.

PROSPECTUS.

PROSPECTUS.

The "ZODTCHY" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Con-truction of different Buildings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &cc., the Biography of Russian and Distinguished Foreign Architectural and Artistic Publications. The "Zodfcut" publishess & Weekly Strplement called "Leaves of the Zodtchy," which contains the current Building Newscreet Competitions, Exhibitions, Froceed-the Academy and School of the Fine Arts in the Empire, Prices of Building-Materials, New Private Buildings in the Capital, Advertisement, &c.

Subscription Price for Europe and the United States, Price for Advertisements: One Line, each insertion, &cts.

Price for Advertisements: One Line, each insertion, 8 cts. For important Advertisements, a Discount of ten to thirty server.
The "ZODTCHY" exchanges with all Architectural and feechnical Journais.

echnical Journals.
Address,
JOURNAL "ZODTCHY,"

18 OFFICER STREET, St. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE, HOSTON,
Receive Subscriptions for the "Zoddchy" for the United States.

SUPERB HELIOTYPE BOOKS.

THE Heliotype process reproduces engravings with faultless accuracy, and with a delicacy which frequently secures a nore pleasing effect than the original engraving itself. These Heliotypes are not cheap or imperfect imitations, but absolutely exact copies; and, being printed in ink, they are permanent.

The following Heliotype Books commend themselves to all art-lovers, and are peculiarly suitable for Gifts:—

GEMS OF THE DRESDEN GALLERY.

mprising the most Famous and Popular Works in the Dresden Collection, reproduced in Heliotype from the best Engravings. With Notices of the Works and the Artists. 24 Heliotypes. 1 vol. large 4to, \$10.

4to, \$10.

CONTENTS. — The Sistine Madonna, by Raphael —
The Madonna of the Meyer Family, by Holbein. — The
Beading Magdalen, La Notte, and St. George, by
Corregio. — Titian's Daughter, by Titian. — Falma's
Daughters, by Palma Vecchio. — "Quos Ego." by
Rubens. — Eece Homo, and Venus and Child, by Guido
Reni. — Sussanna and the Eiders, by Faolo Veronese. —
The Fruit-Sellers, by Murillo. — Rembrandt and his
Wife, by Rembrandt. — Saint Cecilia, and Christ, by
Carlo Dolce. — The Genius of Fame, by Caracci. — The
Card-Players, by Caravaggio. — The Writing-Master, by
Dow. — Ryckaert, by Van Dyck. — The Cemetery, by
Ruysdael. — The Smithy, by Wouvermans. — Diogenes,
by Ribera — The Ford, by Berghem. — Netscher and
his Wife, by Netscher.

GEMS OF THE GRAY COLLECTION.

GEMS OF THE GRAY COLLECTION.

A Series of Twenty-four Choice Engravings, reproduced in Heliotype from the Originals in the Gray Collection of Engravings, Harvard University. With full Historical and Descriptive Letterpress. I vol. large 4to, elegantly stamped, \$10.

CONTENTS.—The Transfiguration, and Galatea, by Raphael.—The Last Supper, and the Combat for the Standard, by Leonardo da Vinct.—Il Giorno, and Sc. Catherine, by Correggio.—Aurora, and Doctors of the Church, by Guido.—The Triumph of Bacchus, by Caracci.—The Last Communion of St. Jerome, by Domenichino. Cervantes, by Velasquez.—The Immaculate Conception, by Murillo.—The Lion Hunt, by Rubens.—Christ crowned with Thorns, by Van Dyeke.

—The Knight of Death, by Dürer.—David and Saul, by Rembrandt.—The Burgomaster Six. and The Mill, by Rembrandt.—The Three Fates, by Michael Angelo.—Belisarius, by Salvata Hosa.—The Rat-Catcher, by Visscher.—The Sudarium, by Mellan.—The Enbarkation for Cythera, by Wattean.—The Distressed Poet, by Hogarth.

GALLERY OF GREAT ARTISTS.

GALLENT OF GREAT SHIPS.

A Series of Portraits engraved on Steel, by Eminent Engravers, reproduced in Heliotype, With Biographical and Descriptive Letterpress, Containing Portraits of Leonardo da Vinci, Raphael, Michael Angelo, Correggio, Titian, Caracci, Guido Reni, Velasquez, Murillo, Salvator Rosa, Poussin, Greuze, Claude, Dürer, Holbein, Rembrandt, Rubens, Van Dyck, Hogarth, Reynolds, Landseer, Turner, Copley, Stuart. 1 vol. large 4to, elegantly stamped, \$10.

THE TITIAN GALLERY.

THE TITIAN GALLERY.

Twenty-four of the finest and most popular of Titian's Pictures. With full account of the Artist and his Works. 1 vol. large 4to, elegantly stamped, §10.

CONTENTS.—Titian.—Titian's Daughter.—Titian's Mistress.—Pietro Arctino.—Isabella D'Este.—Francis I.—Charles V.—Danaß.—Flora.—Laocoğu.—Sophonisba.—Three Stages of Life.—Vennx and Cupid—Venus Sleeping.—Venus and the Mirror.—The Assumption.—The Entombment.—The Great Holy Family.—The Martydom of St. Peter.—St. Jerome in the Desert.—The Supper at Emmaus.—The Tribute Money.—The Madouna and Angels.—Magdalen.

*, * These Heliotype volumes are of the same general style with the Landseer Engravings, Toschi's Engrav-ings, Raphael Studies, and Child Life in Pictures, which have proved so acceptable to the public.

JAMES R. OSGOOD & Co., Boston.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A and E VARIN. Reproduced by the Heliotype Procesa.
I vol. quarto. Boards. \$12.00.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., BOSTOR.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. H. EMERIC-DAVID, member of the Institute of France.

This volume contains twenty-four Flates, reproduced in fac-simile and with admirable success by the Heliotype Process. The subjects represented the first process. The subjects represented the Heliotype Process. The Madonian of the Fish, "and "The Bearing of the Gross." Quarto. Price, \$16.99.

JAMES R. OSGOOD & CO., BOSTOM.

MEDIÆVAL FOLIAGE. By J. K. Con-

GENERAL HARD TIMES.

Pensions procured and increased. Bounties obtained from \$10.00 parts. These two volumes by Mr. Colling contain valuable infroductory ceases on the use of Voltage in Arx, with a great feet [100.800, \$302 to 402 (veteran). Patents for inventors. Late [100.800, \$302 to 402 (veteran). Patents for inventors. Late [100.800, \$302 to 402 (veteran). Patents for inventors. Late [100.800, \$302 to 402 (veteran). Patents for inventors are univaled.

W. H. GODDARD, Attorney-at-Law, Washington, D.C.

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof, Are also offered at reduced rates

PRICE LIST.

re Fool.
Super.

\$1.05 to \$1.15
45 to \$2.5
same prices. Liber-1 discount to the trade.

\$7 \quad \text{0}.

WILSON & JAMES,
WILSON & JAMES,

State rights for patent Shutters for sale. Agents wanted.

WESTON'S DIFFERENTIAL PULLEY BLOCKS.



DOYLE'S, HALL'S, & BIRD'S,

THE YALE LOCK MANUFACTURING COMPANY, HENRY R. TOWNE, President,

STAMFORD, CONN.

Adapted for all hoisting purpo HOLD THE LOAD SUSPENDED AT ANY POINT.
ENABLE ONE MAN TO DO THE WORK OF FOUR OR FIVE.

ESTABLISHED 1833.

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP, WHITE HOLLY, THUYA, ROSEWOOD, etc., MAHOGANY.

In Logs. Planks, Boards, and Veneers. Dowels all Sizes

suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED.

and at London, Paris, Vienna, Berlin, Melbou



SEWERGASSHUTOFF! JENNINGS' PAT. W. CLOSETS.



JENNINGS' SPECIALTIES

JENNINGS: PATENT SIX- JOHNINGS: PATENT WATER CLOSETS, EMPIRES PATENT PERSON URINAL.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS,



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture, Decoratio .; and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS,
HEARTHS, AND HALL, VESTIBULE,
AND BANK FLOORS.

Manufacturer of Fine Furnisure, and Importer of rare
Etchings and Engravings.
No. 170 Tremont St., Boston.

THE NATIONAL ODE

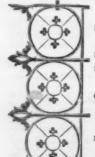
Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

oric occasion on which this Ode was recited, the majestic and classical char-Ode, and the rare attractiveness of Mr. Taylor's penmanship which is repro-absolute accuracy, give peculiar value to this volume as a souvenir of a memor-

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works



For Building IRON AND WIRE RAILING,

IRON CRESTINGS, IRON STABLE FIXTURES, FOUNTAINS,

VASES,

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS' HARDWARE, Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue BUBIER & COMPANY,

HOMES AND HOW TO MAKE THEM.

By E. C. GAEDERR. Hightrated. 1 vol. square 12mo

JAMES R. OSGOOD & CO., BOSTOR.

ARCHITECTS.

WROUGHT AND CAST IGON OFFICES OF FRANK W. WESTON, Late WESTON & RAND, (17 Pemberton Sq. Boston,) Architect, 178 DEVONSHIRE ST., AND 33 FEDERAL ST., BOSTON.

WALTER ARCHITECT. PERRY DICKSON, Albery, N. Y. BUILDING,

CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR,
NOS. 488 & 400 HARRISON AVENUE, BO

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord N. H. Offices, 10 Caual Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufac-turer of Stationary Wash Stands. 37 Haverhill St., Bos-ton. Posts, Rails, Balusters, & Office Rails, furnished to order



Franklin Press: Rand, Avery, & Co., Boston,

EXAMPLES OF MODERN ARCHITEC-TURE. From designs by Scott, Steet, Colling, and others. I vol. quarto. 64 plates. \$15.00. Containing designs for Churches, Cathedrals, Colleges, Ilails, Railway Stations, Museums, Model Dweilings, Baths, JAMES R. OSGOOD & CO., Bostons.



er.

rk.

S,

ES.

GS.

ston.

lor,

hers,

EC-

ça. and



A WEEKLY JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART.

Vol. I. No. 53.]

SATURDAY, DECEMBER 30, 1876.

[PRICE 15 CENTS.

BUILDERS' SUPPLIES.

J. B. & J. M. CORNELL.

All kinds of

IRON WORK FOR BUILDINGS.

9 Studio Buildings, | 141 Centre Street, | 427 Walnut Street, Boston. | New York. | Philadelphia.

LAWRENCE, WILDE, & CO., MANUFACTURERS OF

FIRST-CLASS FURNITURE

INTERIOR DECORATIONS,

NOS. 38 TO 48 CORNHILL, BOSTON.

Competent Designers always employed, and ORDERED WORK a specialty.

NEW ENGLAND LINEN HOSE MANU-FACTURING COMPANY. Linen and Rubber-Lined Linen

FIRE HOSE.

Seamless woven, and abl to withstand immense pressure.

The most practical Hose for use in
FACTORIES, MILLS, AND HOTELS.

All Buildings with Stand-Pipes should have it.
—Send for Circul rs.
—ROBERT GEMS, Treas.—S destron, 339 Washington St.,
BOSTON, MASS.

CHARLES P. WILLIAMS,

NO. 247 BROADWAY, NEW YORK, Quarryman, and Wholesale Dealer in BUILDING STONE,

OHIO STONE, FROM BERLIN, AMHERST, AND BEREA QUARRIES.

Sole Agent for

BERLIN STONE,
And for Concord Granite, in New York and New Jersey.
AGENT FOR CANAAN MARSLE.

ELECTRIC BELL, AND ANNUNCIATORS,

SPEAKING TUBES.

AND BURGLAR ALARMS, For Public and Private Buildings.

THE BEST IN USE.

S. W. FULLER,

63 Devonshire Street, Boston.

SAYER & FISHER.

MANUFACTURERS OF LIGHT COLORED (Buff to White)

PRESSED FRONT BRICK.
MOULDED, ARCHED, SPLAYED, AND FOLIATED
BRICKS OR BLOCKS,
FOR EXTERIOR AND INTERIOR
ORNAMENTATION MADE TO ORDER FROM DESIGNS.
ALSO, COMMON BUILDING BRICK.

Works at Sayerville, on Raritan River, N.J.,
Office, Newark, N.J.

MINTON'S ART AND ENAMELLED

ALSO

THE CAMPBELL BRICK & TILE COMPANY'S EN-CAUSTIC GEOMETRICAL & MAJOLICA TILES. T. ASPINWALL, Sole Agent,

38 MURRAY STREET, NEW YORK.

DISCOURSES ON ARCHITECTURE.

By Viollet Le-Dic. Translated, with an introductory Essay. by Heaver Van Brunt, Fellow American Institute of Archite.ts. Fully illustrated. I vol. royal 8vo. 88.00.

JAMES R. OSGOOD & CO., Boston.

Warehousee, Stores, &c.

37 FOUNDRY STREET, SOUTH BOSTON.

OPPICE, 243 Broadway, New York.

OPPICE, 243 Broadway, New York.

OTIS TUFFS.

President. Treas'r and Gen'l Manager.

BUILDERS' SUPPLIES

THE FIRE-PROOF BUILDING CO. OF NEW YORK. It show Blocks of any pattern, uniting strength, and resistance to fir and water. The Hydraulic Lime of Tell (France), one of the strangest cements kn.ywn, is largely used in this manufacture. The blocks do not conduct heat, cold, or sound, and weigh sixty per cent I as than brick.

an brick. Fire-proof partitions, floor arches between iron beams, filings under wooden or iron beams, in the following

ceilins ander wooden or iron beams, in the following buildings:

W. stern Union Telegraph, Del. and Hudson Canal Co., Equitable Life Assur nee, Willimsb gh Sar ngs Bank, Westminster Hotel, Syracuse Savings Bank, Columbia College, Baltmore Saf. Dr. po-lit, Insurance on Wooden Manards r duced ninty c rus per \$100. Sidewalks laid at Lenox Library, Union, &c. Hollow Bricks of all kinds. Our Fire-Froot work is the only one approved by the New York Boar I of Fire Chierwhiters, and the Superintendent of Buildings, after severe public tests.

LEONARD F. BECKWITH, President.

MITCHELL, VANCE & CO.,

Designers and Manufacturers of

ORNAMENTAL BRONZE AND METAL WORK OF EVERY DESCRIPTION,
FOR CHURCHES, BANKS, PUBLIC AND PRIVATE
BUILDINGS.

ALSO GAS FIXTURES.
WAREROOMS, No. 597 BROADWAY, NEW NEW YORK.

WHITTIER MACHINE CO.

Manufacturers of Steam and Hydraulic

ELEVATORS,

STEAM ENGINES, BOILERS, AND MACHINERY.

No. 1176 Tremont Street, Boston.

Office in the New England Mutual Life Insurance Co's.
Building, Post Office Square.

CHARLES WHITTIER, Pres. JAMES STURGIS, Treas.

BARTLETT, ROBBINS, & CO.,

ARCHITECTURAL IRON WORK,
OIRNAMENTAL IRON WORK,
OIRNAMENTAL IRON WORK,
HOT WATER, HIGH AND LOW PRESSURE STEAM
HEATING AND VENTILATING BY HOT WATER
A SPECIALITY Office 24 Light St.
Works, cor. Pratt and Scott Sig.
New York Office, 88 Beekman Street. Office 24 Light St.,

JOHN H. REED & CO.

IRON MERCHANTS,
AND AGENTS FOR BAY STATE IRON COMPANY,
Manufacturers of and Dealers in
Homogeneous Boiler and Fire-Box Plates, Plate, Sheet, Plg,
and Railroad Iron, Wrought Iron Girder, Channel, and
Deck Beams, Angle and T Iron, Boiler and Tank
Rivets, Lap-Welded Iron Boiler Tubes,
Wrought Iron Steam and Gas Pine.

ught Iron Steam and Gas Pipe. OFFICES, 2 PEMBERTON SQUARE, BOSTON, MASS.

TUFTS' ELEVATOR WORKS, ANUFACTURERS OF "TUFTS' PATENT" COMBINATION ROPE ELEVATOR,

To be operated either by steam or water.

The only safe and reliable machine made for Passenger use in Public Buildings and Hotels, and for business purposes in Warehouses, Stores, &C. 27 FOUNDRY STREET, SOUTH BOSTON.

BUILDERS' SUPPLIES.

KING IRON BRIDGE AND MANU'F CO. CLEVELAND, O.

MANUFACTURERS OF ALL KINDS OF

WROUGHT-IRON BRIDGES AND ROOFS.

Correspondence solicited.

E. H. BRABROOK,

96 and 98 WASHINGTON ST., BOSTON.

FURNITURE & INTERIOR DECORATIONS,

MR. VICTOR CHARMOIS - Designer.

WALWORTH MANUFACTURING CO.,
NO. 69 KILBY STREET, BOSTON,
CONTRACTORS FOR STEAM AND HOT WATER WARMING AND VENTILATING APPARATUS, of most approved styles. Plans
and Estimates furnished upon application.
GAS LIGHTING APPARATUS, WROUGHT IRON
PIPE AND FITTINGS; RADIATORS,
GREEN, BUSINGS APPARATUS.

GREEN-HOUSE APPARATUS, Etc., Efc.

ARCHER & PANCOAST MANUF. CO.,

A MANUFACTURERS OF
GAS FIXTURES AND ORNAMENTAL BRONZES,
CRYSTAL CHANDELIERS,
FIXTURES FOR PUBLIC AND PRIVATE BUILDINGS,

CHURCH METAL-FURNITURE. 67 Green St.; 68, 70, & 72 Wooster St., above Broome,

NEW YORK.

Broadway cars pass the door.

GRANITE COMPANY
GRANITE BUILDING AND MONUMENTAL WORK.
ALSO GRANITE FLAGGING & PAVING BLOCKS,
SIMMONS BUILDING, 40 WATER ST., BONTON.
QUARTIES: BAY VIEW, GLOCCESTER, MASS.
JONAS H. FRENCH, PARTIES, BUILDING, 40 WATER ST., BONTON.

QUARTIES: BAY VIEW, GLOCCESTER, MASS.

JONAS H. FRENCH, PARTIES, SUPPLY OF THE PROPERTY OF THE PROPERTY

PULLER, DANA, & FITZ,
110 NORTH STREET, BOSTON.
METAL MERCHANTS, Importers of ROOFING PLATES
AND IRON, USED IN BUILDINGS.
Exclusive Boston Agents for the sale of The Union
Inon Mills' Solid Worden't Inon Brams, and The
"Burden Best" Iron, Tensile Strength 78,900 lbs.

G AS FIXTURES
OF EVERY DESCRIPTION
SPECIAL RATES TO BUILDERS.
R. HOLLINGS & CO., 547 Washington St. BOSTON.

GALVANIZED IRON CORNICES, Campbell's Pate t Chimney Jacks, Window Caps, &c. SMITH & VAN NOORDEN, SSI Harrison Avenue, Boston.

A. STETSON & CO., 173 Tremont St., Boston, GAS FITTERS, GILT, BRONZE, AND GLASS CHANDELIERS. Gas Fipe, and Fitting in all its Brunches. Architects, Contractors, and Builders furnished with the lowest estimates.

NEW ENGLAND DRAIN PIPE COMPA-DRAIN, AND WATER PIPE, LAND TILE, CHIMNEY TOPS, FUNNEL STONES, &C. BENJ. NOVES, Agont.

GEO, F. BLAKE MANUFACTURING CO., MANUFACTURERS OF BLAKE STEAM PUMPS, CAUSEWAY AND FRIEND STREETS, BOSTON.

BUILDERS' SUPPLIES

HAWTHORNE & TUCKER,

PLUMBERS.

PROVINCE STREET, BOSTON.

Estimates for Plumbing made, and work done in any part of the United States or Provinces.

MOSES MELLEN & CO. 16 Bromfield

ENAMELLED SLATE MANTELS AND SHELVES PARLOR GRATES, ENGLISH FLOOR AND WALL TILES.

M. W. PEIRCE & CO.,
STEAM, 6AS, AND KEROSENE FIXTURES,
117 AND 119 COURT STREET,
BOSTON.
Lowest Estimates for furnishing Private and Public Buildings and Churchez.

BEEHIVE BRAND FELT ROOFING for Flat Roofs Only Manufacturers, NEW ENGLAND FELT ROOFING COMPANY, 17 Central Street, Boston.

MONS. C. J. SOYARD, formerly 12 West Street, designer and maker of FURNITURE, WOOD MANTELS, AND ALL FIRST-CLASS CABINET WORKS OF EVERY DESCRIPTION. 2 "A" BEACON STREET, MEAR TREMONT, BOSTON.

HENRY B. JONES & CO.
Importers, Jobbers, and Retailers of PAPER HANGINGS. 612 WASHINGTON STREET, BOSTON.

GEORGE BROWN.
STEAM STONE-DRESSING WORKS.
264 TO 270 PASSAIC STREET, NEWARK, N.J.
Estimates made, and cut stone work of every description promptly and accurately furnished.

J. CARTISSER, (ESTABLISHED 1858). ORNAMENTAL, EMBOSSED, AND CUT GLASS, FOR HOUSES, STEAMBOATS, RAILROAD CARS, OFFICES, &C., No. 256 West 14th St., New YOTK

VENTILATION.—IMPROVED WALL AND WINDOW VENTILATORS, that will supply pure sir, without dust or cold draughts, and a apted to large or small rooms. Call or send for Circulars. W. H. KIMBALL, 120 Tremont Street Boston.

FOR MARBLE FLOORING TILES,

FRESCO PAINTERS.

W. J. McPHERSON, Established A. D.

MURAL PAINTER,

ECCLESIASTICAL DECORATOR.

440 TREMORT STREET, BOSTON, MASS

PHILIP A. BUTLER,

DECORATOR AND DESIGNER,

No. 17 PEMBERTON SQUARE,

WALLBURG & SHERRY, INTERIOR PAINTERS AND DECORATORS, OF HOUSES, CHERCHES, AND PUBLIC BUILDINGS, No. 136 HARRISON AVENUE, BOSTON.

GEO. DWIGHT, JR., & CO.,

Builders in Iron, and Engineers in Fire-Proof Construction,

SPRINGFIELD, MASS.,

HAVE for many years given their exclusive attention to FIRE-PROOF CONSTRUCTION; and they now invite the correspondence of Architects to the following specialities which hereafter will constitute the leading items of their business: FIRE-PROOF FLOORS. The only floors that have stood

FIRE-PROOF ROOFS. Refer to Equitable Life Insurance

FIRE-PROOF SHUITERS. Have stood many fires in all parts of the country. Over 6000 pairs put up in Boston after the fire. Saved the city of Springfield last year.

after the fire. Saved the city of Springfield last year.

FIRE-PROOF LATH. In the words of one of the best-known architects of this country, "Minimum of metal, maximum of stiffness, maximum of clinch; the best lath ever made, either wood or iron." See New York Post-Office; State Department, Washington; Equitable Life Insurance Company's Buildings, and many others.

Mr. Horr will be pleased to wait upon Architects, when desired, to explain our methods, and to present for inspection construction plans and estimates for any specific work.

PROPOSALS.

TO MODELLERS AND DECORATIVE SCULPTORS.

THE Boston Society of Architects offers a prize of fifty dollars for the best model, in plaster or wood, of a frieze decoration. The models are to be executed in relief, and not larger than one by three feet. They are to be delivered at the Architectural rooms of the Mass-achusetts Institute of Technology, in Boylston Street, Boston, addressed to the Boston Society of Architects, with the name of the workman who executed them, before the first Friday in February, for examination at the meeting of the Society on that day. After adjudication, the approved models will be on exhibition at the Boston Museum of Fine Arts. Modellers and carvers throughout New England are invited to compete. If sufficient encouragement is found, it is intended to offer similar prizes to workmen in other branches of decorative art.

STREET IMPROVEMENT. — Sealed Proposals will be received at the office of the D-partment of City Work, City Hall, Brooklyn, N.Y., until We nesday, Jan. 3, 187, at 12 k., for grading Bush Street from Court to Hicks Street, according to specifications on file in this department. Specifications may be seen, and forms of proposals can be procured, on application at the Department of City Works. Proposals will not be considered unless accompanied with an undertaking in writing of two surrelies on each proposal (4,000), that if the contract be awarded bits, in the sum of \$\frac{2}{2}\times 0.000\$, and the contract if so awarded them, that there will pay to the city of Brooklyn the difference between the price so proposed, and the price at which the contract may be made with any other person or per ons. Proposals tobe indorsed, "To the Board of City Works" (specifying work). The said proposals will be publicly opened and announced at the next meeting of the said Board, which will be held on the 4th day of January, 1871, at the hour of 10 o'clock, A. M.; or, in case there should be no quorum present on that day, then on the day of the next meeting of the Board.

By order of the Common Co neil, H. W. SLOCUM, WILLIAM A. FOWLEELE, THOMAS W. ADAMS, Commissioners of City Works.

CCHOOL BUILDING. — Sealed Proposals

SCHOOL BUILDING.—Sealed Proposals will be received until Tuesday, Jan. 2, 1877, at 12 o'clock, M., for the erection and completion of a school-building in the village of Canastota, N.Y., for the Union Free School and Academy. Proposals may be made separately and for the whole work complete. Plans and secafications can be seen at the office of J. H. Bell, J.P., in Canastota. Usual privileges reserved. J. H. BELL, Secretary Board of Education.

L. HABERSTROH. (Established 1848)
FRESCO PAINTER.
No. 12 SCROOL STREET, IOSTON.

WILLIAM S. BRAZER,
DECORATOR AND DESIGNER,
NO. 3 HAMILTOS PLACE.
Opp. Park-Street Church.

Boston.

WARNER BAILEY, Sign and Ornamental
Painter, 3 Herrimae Street, Boston.

WARNER BAILEY, Sign and Ornamental
Painter, 3 Herrimae Street, Boston.

POTTIER & STYMUS

DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATION AND ORNAINTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATION AND ORNANEW YORK.

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATION AND ORNANEW YORK.

INTERIOR WOODWORK,
DOORS AND TRIMMINGS,
FITTINGS OF OFFICES,
DECORATION AND ORNANEW YORK.

ILENARD'S DECORATION AND ORNAMENTATION. Specimens of the Decoration and screetly engine by a certified check for be per case of the mount by the chief work of received and ward made. 2. Hospital Building, or the single characteristic orders and removed as seon after feel, 1, 1871, 4, 187

PROPOSALS.

RAILROAD WORK. — Bids for the construction of the Columbus and Mineral Valley Railroad will be received at the office of the undersigned, in the city of Columbus, Ohio, autil noon on the 10th day of January, 1871. Bids may be made for the construction of one or more sections, or for the whole road, and may include all materials necessary to complete it for equiparient. The necessary also complete it for equiparient. The necessary of complete it for equiparient. The necessary also necessary to complete it for equiparient. The necessary also necessary to complete it for equiparient information of the undersigned, white all required information may be obtained. The company reserves the right to redect any and all bits offered. JOHN M. PUGH, President C. & M. V. Railway Co.

M. V. Railway Co.

CAST-IRON WATER-PIPES. — Sealed

Proposals will be received at Milwauke, Wis, until
Saturday, Jan. 6, 1877, at 10 o'clock, A. M., for furnishing colo
tons cast-iron water-pipe; to be delivered at the pipe yard
in said city, of description as follows:

159 tons of six-inch, coated; 23 tons of eight-inch, coated;
25 tons of twelve-inch, coated.

To be delivered at such times and in such quantities as
may be directed by the Board; the first delivery not to
nequired in less than thirty days after date of contract.

Bidders will state a price per ton.

Bonds to accompany bids required in the penal sum of
\$3.000. (Signed) MOSES LANE, JACOB YELTEN, C. L.
SHOLES, F. S. BLODGETT, Commissioners of Public
Works. (Countersigned) JAMES S. WHITE, Comptroller.

SHOLES, F. S. BLODGETT, Commissioners of Public Works. (Countersigned) JAMES S. WHITE, Compiroller, Works. (Countersigned) JAMES S. WHITE, Compiroller, Works. (Countersigned) JAMES S. WHITE, Compiroller, Proposed Works AT THE MOUTH OF THE RIVER SI. CHARLES.
Tenders will be received at the office of the Quebec Harbor Commissioners up to noon of Thursday, the first day of February, 1877, for the construction of the following works:—

1. A wall and an embankment, forming the North Quay of the proposed South Tidal Harbor.

2. The draging out and the formation of a channel-way parallel to both walls.

3. The draging out and the formation of a channel-way parallel to both walls.

4. The con-truction of cribwork at the end of the embankment next to the Gas W rks.

5. Cribwork and retaining-walls adjoining the Ballast Wharf

6. The construction of a bridge over proposed eighty (8) feet entrance in the north wall of the South Tidal Harbor. Plans, specifications, bills of quantities, and form of tender, can be seen at the effice of the Commissioners during office hours; and printed copies of the specifications to the specifications and printed copies of the specifications to be seen at the effice of the Commissioners will be received.

The Commissioners do not bind themselves to accept the lowest or any tender.

The contractor is to find two respectable and responsible recurities, to be approved of by the Commissioners, whose names, addresses, an locaupations are to be inserted in full in his tender, and who are willing, with him, to be bound jointly and severally in the sum of \$0,000 knich will be returned to unsuccessful competitors as soon as the contract is awarded.

J. B. MARTEL, Secretary-Treasurer.

Harbor Commissioners, Whose mer, 1876.

HARBOR COMMISSIONERS' OFFICE, QUEBEC, 20th Novemper, 1876,

A RCHITECTS, PLANS. — The Board of Di-rectors of the Mount Pulaski Public School will pay \$200 to the party tarnishing the best plans and specifications for a Public School Building to accommodate 600 pupils Correspondence collected. Mount Pulaski, Logan Co., Ill. Secretary of Board.

A NNALS OF A FORTRESS. Translated by Benjamin Bucknall, Architect. I volume 8vo, Eighty-five illustrations, several in colors. \$5.00 °M. Violici-le-Due is an accomplished archite t, an able, military engineer, and an ingenious and fascinating writer. His 'Story of a House' display of his taste in the first capacity; his 'Annals of a Fortress' exhibits his genius in the second; whil, his skill in the thir! isstrikingly lilu trated in both of these exceptionally handsome volumes. In the last named this gifted and brilliant autor describes the locating, planning, erecting, and befending through seven successive sie es, of an imaginary fertification on the River Cousie, an affluent of the 85 me in France. Each chapter in its history is set forth with the greatest laboration and strictest regard to the technics of the art of war, so that the effect is that of a vertable nurrative, or more promerly, perhaps, of a scientific review." — Boston Congregationalist.

"Those who read the book through carefully, by the help

ated; les as to be tract. im of C. L. ublic otler.

THE

Quay

Quay way ank-llast (80) or. n of ners ions con-ic re-ig in

the sible hose full und sifil-b, or com-

of N

BUILDING MATERIALS.	DOUBLE THICK.		PAINTS AND OILS.
·····	6 x 8 - 7 x 9\$19 50 \$18 50 \$17 1 8 x 10 - 10 x 15 21 00 19 50 18 5 11 x 14 - 12 x 16 23 00 21 00 20 6	50 17 50	Chalk
LATEST NEW YORK QUOTATIONS.	11 x 14 - 12 x 16 23 00 21 00 20 0 11 x 18 - 14 x 24 24 50 22 00 21 0 15 x 24 - 15 x 32 30 00 28 00 25 0	00 19 50	Whiting
Dec. 29, 1876. BRICK. Cargo Afloat.	16 x 32 - 20 x 30 32 00 20 00 26 0	00	Zinc, white, American, dry 61/6 71/2 Inc., white, American, in oil, pure. 111/2 12
Pale P M. \$2 75 @ \$3 00	20 x 34 - 22 x 36 37 00 34 00 30 0	90	Lead, white, American, dry 9 @ 99, Lead, white, American, in oil, pure. 10 @ 103,
Jersey	24 x 36 — 24 x 40 40 00 36 00 32 0 24 x 42 — 28 x 42 44 50 40 00 36 0	00	Lead, red, American
Long Island	26 x 46 — 30 x 48 46 50 42 00 38 0 30 x 50 — 32 x 52 48 50 44 50 40 0	00	Ochre, French, dry (gold)
Haverstraw Bay, choice	32 x 54 — 34 x 56 50 00 46 50 42 0 34 x 58 — 34 x 60 55 00 50 00 46 0	00 —	Venetlan red, English (gold). Pewt 1 75 @ 2 001 Spanish brown, dry
added, \$2 per M. for Hard, and \$3 per M. for Front Brick.	Sizes above, \$15 per box extra for every hy	e inches.	Spanish brown, in oil
FRONTS. Croton — Brown	An additional 10 per cent will be charged f more than 40 inches wide. All sizes above 5	2 inches in	Vermilion, Ann. Quicksliver (gold). 70 72 Vermilion, Trieste (gold). 1 00 1 10 Carmine, American, gold 4 85 5 50
Croton – Red	length, and not making more than 81 united i be charged in the 84 united inches bracket		Crome yellow, genume, dry 12½@ 28 Crome, yellow, in oil
Philadelphia 23 00 @ 27 00 Trenton 21 00 @ 25 00	Discount to the trade, 50 and 10 @ 50 and 1 cent.	o and o per	rain groom, pure, dry
For delivery, add \$5 on Philadelphia and Trenton,	AMERICAN WINDOW, per box of 50ft. Sizes. 1st. 2d. 3d.	4th.	Putty, pure
and \$6 on Baltimore,	6 x 8 - 10 x 15\$10 75 \$9 75 \$9 75 11 x 14 - 12 x 13 11 50 10 25 9 7	75 8 75	Sienna, burnt. American,
CEMENT. Rosendale	10 x 16 - 11 x 26 12 50 11 50 10 2 18 x 22 13 25 12 00 10 3	25 9 00 75 9 50	Sienna, raw, in oil
Portland 3 3 3 6 6 3 75 Roman 3 5 0 6 8 80 Keene's coarse 7 50 6 8 80 Keene's fine 11 25 6 12 00	26 x 26 - 20 x 30 15 75 14 00 12 6 25 x 30 - 21 x 30 19 75 16 75 13 5	00 10 25	Steinia, Taw, in Oil. 15 @ 25 Umber, burnt. 4 @ 8 16 @ 21 Umber, burnt, in Oil. 16 @ 21 Umber, raw. 33/@ 7 17 Umber, raw in Oil. 16 @ 22 Black, Lamp, Coach. @ 20 Black, Lamp, condinary. 6 6 Black Paint, in Oil. kegs. @ 8 8 Black Paint, in asst'd, cans. @ 11
Keene's coarse	21 x 28 - 24 x 36 20 25 17 50 14 0 26 x 36 - 26 x 44 22 75 20 25 15 8	50	Umber, raw in oil
FIRE BRICK.	28 x 44 — 39 x 50 24 00 21 50 16 7 30 x 52 — 30 x 54 27 25 24 00 18 7	75 —	Black, Lamp, ordinary
Red Welsh	30 x 56 — 34 x 56 29 50 26 25 22 (34 x 58 — 34 x 60 31 50 29 50 25 (00	Black Paint, in asst'd, cans
American 30 00 @ 40 00	36 x 60 - 40 x 60 37 00 32 50 29 5 Above \$12 per box extra for every five incl		Duty20 per cents, ad val. on calcined; lump, free.
DOORS, WINDOWS, AND BLINDS. DOORS, RAISED PANELS, TWO SIDES.	Discount, 70 @ 75 per cent. Also sold at 60 @ 60 and 5 from French list		Nova Scotia, white
2.0 x 6.0 1½ in. \$1 00 — 2.6 x 6.6 1¾ 1 14	GREENHOUSE, SKYLIGHT, AND FLOOR		Calcined, Eastern and city P bbl. 1 25 @ 1 50 Calcined, city casting
2.6 x 6.8	Per square foot, net cash. 1/4 Fluted plate \$0 22 1/4 Rough plate 2.16 Fluted plate \$0 22 1/4 Rough plate	0 \$0 65	SLATE. Delivered at New York
Doors, Moulded.	% Fluted plate \$0 22	0 1 15	Purple roofing slate,
Size. 1¼ in. 1½ in. 1½ in. 1½ in.	% Kough plate 50 1 % Kough plate	3 1 30 5 1 80	Red slate
2.6 x 6.6 1 87 \$2 38 ———————————————————————————————————	FOREIGN WOODS. — Duty free. CEDAR.		City)
2.6 x 6.10 1 96 2 47 ——————————————————————————————————	Cube Cuporticial foot 0 7	@ 0 8	State tiles, 1/4m., rubbed, 4/8q. it.
2.8 x 6.8 2 00 2 58 \$3 18 2.8 x 7.0 2 09 2 68 3 34	Mexican, small	% @ 0 11 @ 1 25	SOLDERS.
2.10 x 6.10	MAHOGANY. St. Domingo, crotches, ordinary to	6 1 20	No. 1
GLAZED WINDOWS.	good	@ 0 40	TIN PLATES. — Duty, 1 1-10c, 17 %. I. C. charcoal, 10 x 14 17 box (cur.) \$8 60 @ \$8 25
Dimensions of 12 Lights, 8 Lights, 4 Lights,	St. Domingo, logs, small 0 7	(a) 0 10	I. C. coke, 10 x by 14
Windows, 14pl. 14ee, 14ee, 14ee, 14ee, 14ee, 14ee, 14ee, 21 x 3.6\$1.00 1.08	St. Domingo, logs, large 0 15 Cuba, logs, small 9 9	@ 0 15	I. C. charcoal, 14 x 20
2.4 x 3.101.15 1 23 1.32 — — 1.35 — — 1.69 1.81	Cuba, logs. large. 0 20 Frontera, Mexican, large. 0 12 Frontera, Mexican, small. 0 7 Other Mexican. 0 6	@ 0 16	I. C. coke, 14 x 20 6 50 @ 7 75
2.7 x 4.10 1 56 1.64 1.77 1.80 — 2.02 2.15 2.7 x 5.2 1.67 1.74 1.89 1.93 2.08 2.16 2.31	Other Mexican 0 6	@ 0 10	I. C. coke, terne, 14 x 20
2.7 x 5.6 — 1.84 2.02 2.08 2.26 2.31 2.49 2.7 x 5.10 — 1.94 2.13 2.19 2.38 2.43 2.62	Rosewood.	(O)	ZINC. — Duty, sheet, P lb. 2¼ c. Sheet (gold)
2.10 x 4 61.59 1.66 1.80 — — 2.03 2.17 2.10 x 5.21.80 1.87 2.09 2.09 2.31 2.31 2.53	Rio Janeiro, ordinary to good Plb. 0 2 Rio Janeiro, good to fine 0 4	@ 0 6	LEAD. Bar 0 83
2.10 x 5.6 1 88 1.96 2.19 2.16 2.39 2.42 2.65 2.10 x 5.10 2.09 2.18 2.42 2.31 2.55 2.58 2.82	Bahia, good to fine 0 2 Bahia, good to fine 0 3	@ 0 5	Sheet 0 9
cc means counted checked, plowed and bored for weights.	Satinwood D superficial foot 0 20	@ 0 25	A decline of 1/4 cent.
Hot-Bed Sash, Glazed	Lignumvitæ, small	@ 0 5	Discount 10 per cent to trade, IRON,
OUTSIDE BLINDS. Per lineal foot, up to 2.10 wide	LATH. — Cargo rate D M. \$2 00	@ 50 00	Duty.—Bar, 1 to 1½c. 尹 肋; Rallroad, 70c. 尹 100肋 Boiler and Plate, 1½c. 尹 肋; Sheet, Band, Hoop and Scrool, 1¼ to 1½c. 尹 肋; Plg. \$7 尹 ton; Polished Sheet 3c. 尹 贵; Galvanized, 2½c. 尹 肋; Scrap Cast, \$6 尹 ton Scrap Wrought, \$8 尹 ton—all less 10 per cent. No Ba
Per lineal foot, up to 3.1 wide	LUMBER. Pine, very choice, and extra dry, PM ft. \$60 00	@ \$70 00	Scrool, 14 to 14c. Ph; Pig, \$7 Pton; Polished Sheet 2c. Ph; Galvanized, 24c. Ph; Scrap Cast, \$6 Pton
Per lineal foot, painted and trimmed 0 40 @ 0 50 Inside Blinds.	Line, building ook		from to pay a less duty than 35 per cent ad val.
Per lineal foot, 4 folds, Pine	Pine, common box	@ 18 00 @ 15 50	
Per lineal foot, 4 folds, Ash or Chestnut — @ 0 95 Per lineal foot, 4 folds, Cherry or Butternut — @ 1 10 Per lineal foot, 4 folds, Black Walnut — @ 1 20	Pine, common box, %. 13 30 Pine, tally plank, 1½, 10in., dres'd each 40 Pine, tally plank, 1½, 2d quality. 35 Pine, tally planks, 1½, culls. 25	@ 43 @ 38	Pig, Scotch, Gartsherrie. 28 00@ 28 75 Pig, Scotch, Glengarnock 27 00@ 27 50 Pig, Scotch, Eglinton. 26 00@ 26 50 Pig, American, No 1 20 00@ 21 00 Pig, American, No 2 18 00@ 19 00
Per lineal foot, 4 folds, Black Walnut @ 1 20 Window Frames.	Pine, tally planks, 1½, culls	(41)	Pig, American, No 1
Up to 3.4 x 7.2, put together	Pine tally boards dressed common. 25		Pig, American, Forge
HAIR.—Duty free. Cattle	Pine, strip boards, merchantable 17: Pine, strip boards, clear 25:	@ 20	Bar, Swedes, assorted sizes (gold) —@ 100 00 Store prices, cash
Goat 0 12½ @ 15	Pine, strip plank, dressed, clear 35	@ 38	Bar, Swedes, ordinary sizes
LIME. State, common, cargo rate	Spruce plank, 1¼in. dressed	@ 29	Bar, refined, % to 2in. rd. & sq1 to 6
State, finishing	Spruce wall strips	@ 16 @ 20 00	Bar, refined, 1½ to 6 x ½ & 5-16in 2 6-10@ — Bar, refined, 1 & 1½ x ½ & 5-16 2 6-10@ — Large rounds, 2½ & 2½ 2 6-10@ — Scroll 3 1-10@ 6 1-10
Rockland, finishing	Hemlock boardseach 16 Hemlock joist, 2½ x 415	@ 18 @ 18	Large rounds, 21/6 & 21/4
Add 25 c. to above figures for yard rates.	Hemlock joist, 3 x 4	@ 18	Ovais and half round 3 (iii) 4 2-10
GLASS. Duty. — Window, Polished Cylinder, and Crown, not	Hemlock joist, 4 x 6	@ 45 00 @ 45 00	Band, 1 to 6 in. x 3-16 to No. 12 2 8-10@ — Horseshoe
over 10 x 15in., 214c. P sq. ft.; larger, and not over 16 x 24in., 4c. P sq. ft.; larger, and not over 24 x 30in, 6c.	Maple 25 00	@ 50 00	Rods, % to 3-16in
It so, ft. above that, and not exceeding 24 x 60in - 20c.	Chestnut boards, 1in	@ 55 00 @ 60 00	THE BOSTON MARKET.
7 sq. ft.; all above that, 40 ct. 47 sq. ft. On Unpolished Cylinder, Crown, and Common Window, not exceeding 10 x 15in sq. 14c.; over that, and not over 16 x 24, 2c.;	Ovpress, 1, 1½, 2, and 2½in	@ 40 00 @ 100 00	Dec. 29, 1876.
10 x 15in., sq., 1¼c.; over that, and not over 16 x 24, 2c.; over that, and not over 24 x 30, 2¼c.; all over that, 3c. ▶ 1b.	Black Walnut, good	@ 85 00 @ 150 00	NAILS. Builders' Hardware.
FRENCH WINDOW. List of March 1, 1876.	Black Walnut counters	@ 35 @ 80 00	10d
Sizes. 1st. 2d. 3d. 4th.	Whitewood, inch.	(62 50 00 1	AXLE PULLEYS — Steel. 47 Dog
x 8 - 7 x 9\$11 00 \$10 50 \$10 00 \$9 50 15 x 10 - 10 x 15 12 00 11 00 10 50 10 00	Whitewood, % in	@ 38 00 @ 40 00	2 in., Pennsylvania make
16 x 14 — 12 x 16 13 50 12 50 11 50 10 75 16 x 18 — 14 x 24 14 00 13 00 12 00 11 25	Shingles, extra shaved pine, 16in 8 50	(a) 9 b0	SASH WEIGHTS P b. 11/20
18 x 24 - 15 x 32 17 00 16 00 14 00 13 00 20 x 32 - 20 x 30 18 00 16 50 14 50 13 50	Shingles evtra sawed nine 18in 7 00	@ 8 00	SASH LINE. P ib Best hemp
21 x 30 — 15 x 38 19 50 18 00 16 00 —	Shingles, clear sawed pine, 18in	@ 22 00 @ 15 00	Best linen 100
24 x 36 - 24 x 40 23 00 20 50 18 00 -		@ 45 00 @ 40 00	DOOR BUTTS. Size - 4° x 4° 5 x 5
26 x 46 - 30 x 48, 26 50 23 50 22 00 -	Yellow pine girders		Japanned Acorn
32 x 54 — 34 x 56 29 00 27 00 24 00 —	LOCUST POSTS, 1210	@ 34 @ 34	Plain Bronzed Iron 80 92 \$\partial \text{pair.}\$ Ornamental Bronzed Iron, 1 50 1 75 \$\partial \text{pair.}\$ Ornamental Bronze Metal, 3 60 4 00 \$\partial \text{pair.}\$
31 x 58 — 34 x 60 31 50 29 00 26 00 — 36 x 60 — 40 x 60 35 00 32 00 29 00 —	Chestnut posts	@ 31/4	[CONTINUED ON NEXT PAGE.]

THE BOSTON MARKET-Continued.

Builders' Hardware.

MORTISE LOCKS — Brass face and bolt — easy

DOOR KNOBS.

Solid glass
Silvered glass.
Cut glass
Nickel platod.
Bronze metal SASH FASTS.

2 50
SASH FASTS. P Doxen.
Plain brass. =6f-locking. \$1 75 to \$2 50
Plain brass, self-locking. 6 50 to 7 50
Nickel plated, self-locking. 4 50
Bronze metal, self-locking. 5 00 to 12 00
SCORFIVE. SCREWS. #7 Gross. and head, nickel plated \$2 25 \$2 90 for window beads, 114 11/2 in. STORE DOOR HANDLES - with mortise latch.

D. M. MEEKER & SON'S Malleable Iron Hollow Munten Window Sash



gives perfect security with have a prison-like appearant architects and medical supe

D. M. MEEKER & SON, Newark, N.J.

Fine Castings of Mall able and Gray Iron, German and Composition; also Patterns a specialty.



PROTECT

YOUR HOUSES

AGAINST

Damage by Water,

BY USING

Wellington's Patent Wash-Bowl

The use of this new and invaluable improvement precludes II possibility of overflow, by which buildings are so often amaged to the extent of thousands of totlars.

It can be introduced at the cost of the ordinary wash-bowl. This guaranty accompanies every basin sold to our alrons:—

satrons:—
We hereby pledge ourselves to remove our basins, and eplace them with any other kind now in use, that parties included the place them with any other kind now in use, that parties in the following conditions, productly on the failure to the inthe following conditions, productly on the failure to any of the failure to one of some of the failure to one of the failure to one of some of the failure to one of the failure to some failure to the failure to fai

L. S. MOORE & CO., 40 Oliver Street, Boston



SCOTCH AND AMERICAN

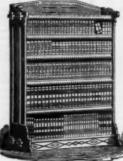
Chimney Tops and Garden Vases OF ALL SIZES AND PATTERNS

Drain and Sewer Pipe, Fire-Brick and Tile, Land Tile. American, Roman, and Portland Cement,

LIME, SAND, &c.
WALDO BROTHERS,

No. 94 Water Street, Boston

ENGRAVINGS FROM LANDSEER. Reproduced in Heliotype, with a Sketch of the Life and P.NGRAVINGS FROM LANDSEER. Reproduced in Hellotype, with a Sketch of the Life and Works of the Artist. Twenty-four Plates, reproducing with the utmost fidelity some of the most famous of Landseer's Works, including "The Challenge," "Chillingham Red Deer," "The King of the Forest," The Monarch of the Gien, "Light Life. "Low Life." Laying Down the Law," "Shoring the Stellage," and Lothers of equal beauty, Quarto. Frice, \$10.00 JAMES R. OSGOOD & CO., BOSTOB.



Useful if not indis-Architect's Office. The Portable BOOKCASE.

Eastlake Pattern.

(Patented), Strong, durable, DUST EXCLUDED. Holds from 150 to 300 volumes. White Pine, \$16 and \$21; Black Walnut, \$30 and \$25.

Call and examine it. The Harvard Book-Rack,

Substantial, tasteful, durable. Price, in neat box, \$1.00.

Sole Manufacturers.

LOCKWOOD, BROOKS, & CO.,

381 Washington St., and 10 Bromfield St.,

BOSTON.



HEADQUARTERS PARLOR GRATES.

THE ONLY

MANUFACTURERS NEW ENGLAND.

Large Assortment of the Latest Improved Designs. Dumping and Shaking Grates.

BRASS FENDERS AND ANDIRONS OF ANTIQUE PATTERNS.

We guarantee our goods to be the BEST IN QUALITY AND FINISH.

Tuttle & Bailey Registers a specialty. Can furnish at lowest prices to the trade.

It will not pay to come 500 miles expressly to examine our stock, better to send for Catalogue and prices

MURDOCK PARLOR-GRATE CO., 11 Marshall Street, Boston

Springfield Gas Machine.

ANDREW G. PAUL.

119 Court Street, Boston.

TO INTERIOR DECORATORS.

An excellent advertising Medium for your purposes is the AMERICAN ARCHITECT AND BUILDING NEWS.

ASAHEL WHEELER'S CONSTANT WHITE PAINT.

sonous gas like other paints while drying perfect enamel, from which any specks of

It is unequalled for beauty, durability, and economy. OFFICE AND STORE 145 MILK STREET, BOSTON



INSTITUTE

STAINED GLASS

PORTRAITS IN GLASS.

131 133, & 135 Shawmut Avenue.

BOSTON, MASS.

OTTO F. FALCK & SCHWABE.

Designs furnished on application.

National Fine Art Foundery,

218 East 25th Street, New York, Artistic Bronze Decoration for Buildings, Monuments, and Altars.

Architects' Designs executed, and designs furnished for special subjects. Artistic Monuments in Granite and Bronze.

Admirably adapted for School and Home Instruction, and very APPROPRIATE FOR THE HOLIDAYS.

WHITE'S

PROGRESSIVE ART STUDIES Just Ready:

WHITE'S Primary Drawing,

GUIDE POINTS.

This series is a part of the cour c of WHITE'S FRO-GRESSIVE ART STUDIES, which have been received with so much favor. It is or unprised in 15 Cards, enclosed in an envelope; A MANUAL OF INSTRUCTIONS for the teacher, and packages of EXERCISE PAPER, containing 50 sheets sade.

Cards Manual Exercise Paper, per package Price, \$0.20

Samples of a set of the Cards, and the Manual, if desired for examination with a view to introduction, will be sent on receipt of 15 cents each.

A Pronounced Success!

WHITE'S ART STUDIES.

BY GEO. G. WHITE, PROFESSIONAL ARTIST.

A thoroughly Practical System of Drawing for Schools and Private Learners, by an eminent artist.

"Mr. White has shown an ability hardly less than grains in the preparation of his Art Studies." - Atlantic Monthly.

WHITE'S PROGRESSIVE ART STUDIES are issued in the form of Carda, neathy incased in envelopes containing twelve each, with an accompanying Manna of Instructions, and duplicate sheets of blank Drawing Paper.

NOW READY.

*.*We shall be pleased to send samples of the Art Studies for examination with a view to introduction, on receipt of 30 cents each.

Send for full Descriptive Circulars containing many testi-ionials from eminent teachers.

, THE EDUCATIONAL REPORTER for September, containing full part culars of our New Books, and much val-uable educational information of a miscellaneous character, will be sent to teachers and educationists on application.

Ivison, Blakeman Taylor, & Co.

EDUCATIONAL PI BLISHER 138 and 140 Grand St., New York. 133 and 135 State St., Chicago.

ue.

BE.

ngs.

igns

OR

ES

or

ts

Architects' and Engineers'

STATIONERY

WADSWORTH BROS. & HOWLAND.

No. 76 Washington Street, Boston, HAVE OPENED AN ENTIRELY NEW STOCK OF STATIONERY

USED BY ARCHITECTS AND ENGINEERS.

WHICH INCLUDE TRACING CLOTH,

TRACING PAPER,

MOUNTED PAPERS,

Whatman's Superior Drawing Paper,

White and Tinted Roll Paper,

English and French Crayon Paper, Rubber and Wood Triangles,

T-Squares.

Mathematical Instruments, &c.

ARCHITECTS AND BUILDERS

Are reminded that our celebrated

BAY STATE COLORS

Are the BEST PAINTS in the market.

WADSWORTH BROS. & HOWLAND,

DEALERS IN

Painters' Supplies and Artists' Materials,

76 Washington Street, Boston.





PARLOR GRATES

H. M. CREAMER,

86 North Street, Bosto Send for Price List. parties are living within for hundred miles of Boston, will pay tocall and examin

EDWARD HIXON & CO.,

IMPORTERS OF

Upholstery Goods, Trimmings, and Looking Glasses,

AND MANUFACTURERS OF

CABINET FURNITURE.

Of the latest Styles and Most Thorough Workmanship

180 Washington St., (New No. 364.)

BOSTON.

E. Hixon, jun





J. & R. LAMB.

59 Carmine St., New York.

CHURCH FURNITURE.

Workers in Wood, Metal and Stone for Church purpose clusively. Polished Brass and Sterling Silver.

Illustrated Catalogues Post Free.

Wood Work | Metal & Stone Work | Banners & Decuration 10 cts. 10 cts.

BURDITT & WILLIAMS,

MANUFACTURERS AND DEALERS IN

BUILDERS' HARDWARE

of all kinds, both useful and ornamental. A specially com-

FINE BRONZE HARDWARE

of the latest patterns

ze and Brass Hardware manufactured to order from 20 DOCK SQUARE, BOSTON,

MANUFACTORY 19 WAREHAM STREET



ROETH & MAY. **FURNITURE**

AND

DECORATION.

No. 8 Hotel Pelham, Tremont St., Boston.



CATALOGUE OF Architectural Books Mailed free to any address.

All architectural and Scientific Books upplied at publishers' prices, A. J. BICKNELL & CO.,

27 WARREN STREET, NEW YORK

W. J. McPHERSON & CO.,

Ecclesiastical,

Memorial, and Domestic

STAINED GLASS WORKS,

440 TREMONT STREET, BOSTON, MASS.



Artificial Wood Ornaments.

FOR FURNITURE MANUFACTURERS,

ARCHITECTS, BUILDERS, DECORATORS,

STAIR BUILDERS, CAR BUILDERS,

ORGAN MANUFACTURERS, STEAMBOAT BUILDERS, ETC., ETC.

AGENTS.

ner a sons, 2 South Charles at, Warfield & Bohr, & S. Shary et.
Clevetand, O.—George Worthington & Co. 39 Water at;
Wm. Bingham & Co. 148 Water at.
Clucinassit,—Glasscher & Kuhlman, 254 Main at; J. L.
Wayne & Son, 124 Main at.
Chicago, —J. L. Wayne & Son, 74 Randolph at; A. A. Ullrich
Co. 16 Fifth ave; J. Liebennein & Co. 22 Handolph at;
Co. 16 Fifth ave; J. Liebennein & Co. 22 Handolph at;
Co. 16 Fifth ave; J. Liebennein & Co. (16 Woodbridge street.
Betroit. — Binli, Duchame, S. Co., 16 Woodbridge street.
Washington. — F. P. May & Co. 64 Pennsylvania venus.
Sam Francisco. — B. L. Solomon & Sons, 40 Market street.
Montreatl. — James Walker & Co. 165 St. James at.
Hamilton, Ont. — Watson & Thompson, 16 McNab at.
33 Our goods can be nurchassed of the above, 16 McNab at.

Our goods can be purchased of the above Agents at the prices and terms as of us.

WILLIAM B. GLEASON & CO.,

West Camden Street (Opposite Chickering Station), BOSTON, MASS.



Architects desiring information connected with our art are invited to confer with us.

P. TOLMAN & E. A. HUNTING, BUILDERS, REAL ESTATE IMPROVERS, AND GENERAL AGENTS. Particular attention given to Repair-ing and Leasing Estates and the Collection of Rents. MORTGAGES NEGOTIATED. NO. 11 BROWFIELD STREET, BOSTON.

TOSCHI'S ENGRAVINGS. From Frescos
by Correction and Parmediano. Reproduces by the
Heliotype Process from the "Gray Collection of Engravings." Harvard University.
This volume contains twenty-four Plates, including Parmegiano's Saint Agards, Saint Lucia, and Saint Apollonia,
Two Deacons, and Saint George. Of Correggio's Frescos, the
Coronation of the Virgin, groups of Cherubs and Angels.
A rare and valuable collection, Quarto. Price, \$10.00.
JAMES R. OSGOOD & CO., BOSTON.

The American Architect and Building News.

PUBLISHED WEEKLY BY JAMES R. OSGOOD & CO., WINTHROP SQUARE.....

BOSTON

A JOURNAL OF CONSTRUCTIVE AND DECORATIVE ART. DEVOTED TO THE INTERESTS OF ARCHITECTS, BUILDERS, DECORATORS, ETC.

Fifteen cents per copy: \$7.50 per year: \$6.00 in advance

RATES OF ADVERTISING

One inch, one month .								. \$7 00
One inch, three months								. 20.00
One inch, nine months.								, 58 00
One inch, one year								. 70.00
On other pages, 10 cents p	er	lin	0 (eac	h	ins	er	tion, or \$1.40
per inch.								
One inch, one month .								. \$5.60
One inch, three months	-			-				. 16.00
Over to A . I		-	-		0			46.00
One inch, nine months								

Publishers' Department.

SUBSCRIPTIONS FOR 1877.

The friends and patrons of the AMERICAN ARCHITECT and BUILDING NEWS are reminded that the most positive way in which they can show their interest in the paper is to immediately renew their subscriptions for the year 1877, by sending their orders direct to the publishers, without waiting to be called upon by agents. All payments should also be made direct, as agents are not authorized to collect bills for sub-

AMERICAN ARCHITECT AND BUILDING NEWS FOR 1877.

Messrs, Jas. R. Oscood & Co. enter upon the seco year's publication of the American Architect and Build-ing News with thanks to their patrons for the favor sing News with thanks to their patrons for the favor with which the first volume has been received, and in the hope of increasing the usefulness and interest to Architects, Builders, Decorators, Manufacturers, Mechanics, and the general public. The experience of its first year, and the connections which the paper has established, will enable them to provide it with a greater range of information, illustration, and news. It is their purpose, while maintaining its independence and impartiality, and preserving those characteristics of the paper which have won approval for it hitherto, to in crease its scope as far as possible, especially in technical and mechanical subjects.

They propose to give more attention than hitherto to decoration and interior furnishing; and an architect of Boston, Mr. Van Brunt, has engaged to furnish for the paper a series of articles on these subjects, which will be illustrated with care. They invite the co-operation of decorative artists and manufacturers of decorative work throughout the country in giving this department the illustration it deserves. The departments of con-struction and mechanics will receive greater attention; and they hope to provide fuller illustrations, both of constructive and architectural detail, methods of con-struction, and building appliances. And for this also they invite the help of those who are interested.

The columns of the paper will be open for the dis-cussion of all subjects that concern architects and persons of kindred interests; and it will be its aim to furnish as full a record as possible of whatever is most important in architecture, building, and their allied pursuits throughout the country, and as far as its

of the means at their command, and of such help as their friends shall be ready to give them.

They have also in contemplation a series of pap on building jurisprudence, a subject of importance architects and builders, and one which has not yet received in our country the attention which it deserves. The articles on drainage and the sanitary appliances of building, which have been a valuable feature of the paper, will be continued. Attention will be given to the archæological history as well as to the study and record of its older architecture. The publishers will be grateful for any assistance that may be given them in this respect. They also propose to give before the end of the year a series of illustrated articles in per-spective for the benefit of architectural students and draughts

Pains will be taken to make the illustrations as n ful and as excellent as possible. Experience has shown that a rule of furnishing a definite number of illustra tions in each number does not always conduce to excel-lence of subject; but it will be the special endeavor of the publishers to furnish the best material available

It is their special desire that their journal should no be a local or sectional journal, but that it should repre sent as fully as possible the building interests of the whole country; and they look for the help of all parts of the country in furnishing it with information, contributions, and illustrations of work done or projected.

Classified Advertisements.

The following is an alphabetical list of the advertise which app ar in this number of the AMERICAN ARCHITECT AND BUILDING NEWS. Our columns fur nish an excellent medium for reference to architects and others engaged in building-enterprises, and its value will increase from week to week. Business and professional men have little time to attend to cata logues and circulars, but all desire a publication to which they can refer for desired information. The AMERICAN ARCHITECT affords this to the special classes to whose interests it is devoted, and therefore a

want which has been long felt is now filled. Advertisers will at once appreciate the excellence and convenience of the arrangement. ARCHITECTS' AND ENGINEERS' STATIONERY, &C. Wadsworth Bros. & Howland, Boston..... CHITECTURAL BOOKS.
A. J. Bicknell & Co., New York..... ARCHITECTURAL IRON WORK. Bartlett, Robbins, & Co., Baltimore, Md...... ARCHITECTURAL SCHOOL. Mass. Institute Technology, Boston..... ARTIFICIAL WOOD ORNAMENTS.
W. B. Gleason & Co., Boston..... Sayer & Fisher, Newark, N.J..... BRONZE DECORATIONS. National Fine Art Foundery, New York, by BUILDERS AND REAL ESTATE IMPROVERS. Tolman & Hunting, Boston..... BUILDERS' HARDWARE BUILDERS IN IRON George Dwight, Jr. & Co., Springfield...... ii
BUILDING STONE. CABINET FURNITURE AND UPHOLSTERY. CHURCH AND HALL ORGANS. New England Organ Co., Boston..... J. & R. Lamb, New York..... vi Braman, Shaw, & Co., Boston..... vii E. & G. G. Hook & Hastings, Boston..... iv NTRACTORS AND BUILDERS. DESIGNING AND WOOD ENGRAVING. W. J. Dana, Bo W. J. Dana, Boston
DIFFERENTIAL PULLEY BLOCKS. Yale Lock Manuf'g Co., Stamford, Conn. viii DRAIN PIPE. ELECTRIC BELLS, ANNUNCIATORS, &c. S. W. Fuller, Boston..... ELEVATOR Tufts' Elevator Works, Boston.....

ELEVATORS, STEAM ENGINES, &c. Whittier Machine Co., Boston.....

FELT ROOFING.
N. E. Felt Roofing Co., Boston.

FURNITURE AND DECORATION.
E. H. Brabrook.
Roeth & May. Boston
Lawrence, Wilde, & Co., Boston. U. J. Boylan, S. Boston.
W. J. McPherson, Boston.
Philip A. Butler, Boston.
Wallburg & Sherry, Boston.
L. Haberstroh, Boston.
William S. Brazer, Boston. GAS FIXTURES. s Fixtures.
R. Hollings & Co., Boston.....
Mitchell, Vance, & Co., New York
S. A. Stetson & Co., Boston...
Archer & Pancoast Manuf. Co., New York
M. W. Peirce & Co., Boston... Pottler & Stymus Manufacturing Co., New York, iii IRON BRIDGES King Iron Bridge and Manu'f. Co., Cleveland, O i IBON CORNICES. Smith & Van Noorden, Boston..... John H. Reed & Co., Boston...... i LINEN HOSE. New England Linen Hose Manuf'g Co., Boston. i LOCK AND BRONZE HARDWARE.
Yale Lock Manufacturing Co.....viii MARBLE FLOORING TILES. George Barney, Swanton, Vt..... ii MARQUIS BASKET HOPPER. J. L. Mott, New York . . . ORNAMENTAL AND CUT GLASS. J. Cartisser, New York...... ii DRNAMENTAL IRON WORKS. Bubier & Co., Boston......viii Bartlett, Robbins & Co., Baltimore....... PAINT.
Asahel Wheeler, Boston..... iv PAPER HANGINGS. H. B. Jones & Co., Boston..... ii PARLOR GRATES.
H. M. Creamer, Boston PARLOR GRATES, BRASS FENDERS AND IRONS, &c. Murdock Parlor Grate Co., Boston..... iv PLUMBERS. Hawthorne & Tucker, Boston ii PLUMBERS' SUPPLIES. Jennings' Sanitary Depot, New York.....viii ROOFING PLATES AND METALS. Fuller, Dana, & Fitz, Boston..... 1 SCIENTIFIC BOOKS. Wilson & James, New York.....viii SHUTTERS (STEEL). Warner Bailey, Boston..... il The Hayes Patent, New York......viii Smith & Van Noorden, Boston......i SLATE MANTELS, &c. W. Grigg, Boston.....vil TE PAINT New York Slate Paint Co., New York..... vil SPRING HINGES. Am. Spring Butt Co., New York..... iv STAINED GLASS. Falck & Schwabe, Boston. W. J. McPherson & Co., Bo Chas. Booth, Orange, N.J.. Kelley & Holland... STEAM HEATING APPARATUS. Geo. F. Blake Manufacturing Co., Boston..... 1 STONE DRESSING WORKS.
George Brown, Newark, N.J...... it TILES.
T. Aspinwall, New York. 1
C. A. Wellington, Boston. viii VENEERS. Palmer, Parker, & Co., Boston viii VENTILATION.
W. H. Kimball, Boston...... ii

WHITE'S ART STUDIES.
Ivison, Blakeman, Taylor, & Co......iv

WINDOW SASHES.
D. M. Meeker & Son's, Newark, N.J...... iv

WOOD CARPETING, &c.
The National Wood Manuf'g Co., New York v

. ii

· · ii
· · ii
· · ii

. vii

0 1

. 1

i

. 1 viii

H

vii

. ii

1

viii

lv

iv

ili

1

iii

H

-11

V



THE BASKET SLOP HOPPER is the neutest and mest useful article that can be devised for what it is intended: it can be placed in the yard, in the washroom, or in the kitchen, as it is trapped, and no smell can come from the sewer, and the Basket or Receiver can be reaway the rubbish Manufactured

J. L. MOTT IRON WORKS, New York.

PROTECT YOUR BUILDINGS,

Which may be done with one-fourth the usual expense, by

Patent Slate Paint,

Fire-proof, Water-Proof, Durable, Economical, and Ornamental.

A roof may be covered with a very cheap shingle, and, be application of this slate, be made to last from twenty twenty-five years. Old roofs can be patched and coate-looking much better, and lasting longer than new shingle without the slate, for

One-Third the Cost of Re-shingling.

The expense of slating new shingles is only about the c of simply laying them. The paint is FIRE-PROOF agai sparks or flying embers, as may be easily tested by any o

IT STOPS EVERY LEAK,

nd for the or from has no equal, as it expands by heat, con-racts by cold, and NEVER CRACKS nor scales. Roofs cov-red with Tar Sheathing Felt can be made water-tight at a mall expense, and preserved for many years. This Slate Paint is

EXTREMELY CHEAP.

Two gallons will cover a bundred square feet of shingle roof, while on tin, iron, felt, matched boards, or any smooth surface, from two quarts to one gallon are required to like square feet of surface; and although the paint has a heavy body, it is easily applied with a brush.

No Tar is used in this Composition,

therefore it neither cracks in winter, nor runs in summer.
On uecayed shinges it fills up the holes and pores, and
gives a new, substantial roof that will last for years. CTRLED
or WAREND shingles it brings to their places, and keeps
them there. It fills up all holes in felt roofs, stops the leaks,
and, although a slow dryer, rain does not affect it a few
hours after applying. As nearly all paints that are black
e. ntain TAR, he sure you obtain our GEKTINE article, which
(for shingle roofs) is

CHOCOLATE COLOR,

when first applied, changing in about a month to a uniform slate color, an. is to all intents and purposes SLATE. On

TIN ROOFS

red color is usually preferred, as one coat is equal to five ny ordinary paint. For

BRICK WALLS

our BRIGHT RED is the on'y reliable Slate Paint ever introduced, that will effectually prevent dampness from penetrating and discooring the plaster.

These paints are also largely used on outhouses and fences, or as a priming coat on fine buildings.

Our only colors are Chocolate, RED, BRIGHT RED, and ORANGE.

NEW YORK CASH PRICE-LIST.

5 gallons, can and box. \$5.59 10 key. 9.50 20 half barrel 16 60 10 no one barrel. 30 00

We have in stock, of our own manufacture, roofing mate rials, &c., at the following low prices: — 1600 rolls extra Rubber Roofing, at 3 cents per square foot Or we will furnish Rubber Roofing, Nalls, Caps, and Slate raint, for an entire new roof, at 45, cents per square foot. 2000 rolls 2-ply Tarred Roofing Felt, at 1% cents per square but.

2000 rolls 2-ply Tarred Rooming ren, at 12 cents per square foot.
3000 rolls 3-ply Tarred Roofing Felt, at 2% cents per square foot.
200 rolls Tarred Sheathing, at 4 cent per square foot.
1000 barrels Slate Foot; per barrel, 43.00.
500 barrels Grafton Mineral, per barrel, 43.00.
5000 gailous fine Enamel Paint, mixed ready for use, on in-lide or outside work, at \$2.00 per gailous. Send for sample eard of colors.

All orders must be accompanied with the money or satisfactory city references. No goods shipped C. O. D., unless express charges are guaranteed.

Sample orders solicited.

N. Y. SLATE PAINT COMPANY,

102 & 104 MAIDEN LANE, NEW YORK.

CHURCH AND LODGE



FURNITURE

MANUFACTURED PR

ORIGINAL DESIGNS BRAMAN, SHAW, & CO.,

MANUFACTURERS OF FINE AND MEDIUM

PARLOR FURNITURE.

Salesrooms: 27 Sudbury, 67 and 71 Portland Streets, Boston.

FACTORY: EAST CAMBRIDGE.

To Architects and Builders.

Your attention is directed to my fine assortment of

SLATES.

ENAMELLED SLATE MANTELS

(as beautiful and durable, and 25 per cent cheaper than real marble),

ROOFING SLATES, SLATE URINALS, **BLACKBOARDS**

FOR SCHOOLS, &c. A LARGE STOCK (

Parlor Grates, Frames, and Registers

ALWAYS ON HAND JOSEPH W. GRIGG,

No. 59 Bromfield Street, Boston.

"ZODTCHY" (BUILDER).

A JOURNAL OF ARCHITECTURE, FINE ARTS, AND ENGINEERING.

Published, since 187?, by the St. Petersburg Society of Architects, under the Editorship of

M. JEROME KÜTTNER,

Professor of Architecture in the Imperial Academy of the Fine Arts at St. Petersburg.

MONTHLY EDITION.

Each number contains from EIGHT to SIXTEEN pages of letterpress, gr. quarto, with cuts, and at least FIVs autographic chromo-lithographic plates, the titles in both Russian and French.

PROSPECTUS.

PROSPECTUS.

The "Zodtcht" includes accounts of Ancient Russian Monuments, Examples of Russian Decorative Art, Review of Architectural Matters at Home and Abroad, Notices of the Con truction of different Build ings, Discussions of Questions of Architectural Technics, Calculations of the Strength of Materials, &c., the Bougraphy of Russian and Distinguished Foreign Architectus, the Discussion of Building Laws, Critical Analysis of Architectural and Artistic Publications. The "Zodtcht" publishess Werely Strperment Publishess of the Zodtcht," which comains the current Building News, Public Competitions, Exhibitions, Proceedings of Architectural Soc ettes, of Technical Institutes, of the Academy and School of the Fine Arts in the Empire, Prices of Buildings Materials, New Private Buildings in the Capital, Advertisements, &c.

SUBSCRIPTION PRICE FOR EUROPE AND THE UNITED STATES, \$12.50 PER ANNUM.

Price for Advertisements: One Line, each insertion, 8 cts. For important Advertisements, a Discount of ten to thirty POT important Autorated Properties.

The "Zoddens, and Technical Journals.

Address, JOURNAL "ZODTCHY,"

18 OFFICER STREET, St. PETERSBURG, RUSSIA.

JAMES R. OSGOOD & CO.,

WINTHROP SQUARE, BOSTON,
Receive Subscriptions for the "Zodtchy" for the United
States.

SUPERB HELIOTYPE BOOKS.

THE Heliotype process reproduces engravings with faultless accuracy, and with a delicacy which frequently secures a more pleasing effect than the original engraving itself. These Heliotypes are not cheap or imperfect initations, but absolutely exact copies; and, being printed in ink, they are permanent.

The following Heliotype Books commend themselves to all art-lovers, and are peculiarly suitable for Gifts:—

GEMS OF THE DRESDEN GALLERY.

nprising the most Famous and Popular Works in the Dresden Collection, reproduced in Heliotype from the best Engravings. With Notices of the Works and the Artists. 24 Heliotypes. 1 vol. large 4to, \$10.

worss and the Artista. 25 rienotypes. I vot. arge
4to, \$10.

CONTENTS.—The Sistine Madouna, by Raphael —
The Madouna of the Meyer Family, by Holbein.—The
Beading Magdalen, La Notte, and 8t. George, by
Corregio. — Titian's Daughter, by Titian. — Palma's
Daughters, by Falma Vecchio. — "Quos Ego," by
Rubens. — Eece Homo, and Venus and Child, by Guido
Reni. — Susanna and the Elders, by Paolo Veronese. —
The Fruit-Sellers, by Murillo. — Rembrandt and his
Wife, by Rembrandt. — Saint Cecilia, and Christ, by
Carlo Dolce. —The Genius of Fame, by Caracci. — The
Card-Players, by Caravaggio. — The Writing-Master, by
Dow. — Ryckaert, by Van Dvck. — The Cemetery, by
Ruysdael. — The Smithy, by Wouvernaus. — Diogenes,
by Ribera — The Ford, by Berghem. — Netscher and
his Wife, by Netscher.

GEMS OF THE GRAY COLLECTION.

A Series of Twenty-four Choice Engravings, reproduced in Heliotype from the Originals in the Gray Collection of Engravings, Harvard University. With full Historical and Descriptive Letterpress. 1 vol. large 4to, elegantly stamped, \$10.

press. I vol. large 4to, elegantly stamped, \$10.

CONTENTS.—The Transfiguration, and Galatea, by Raphael.—The Last Supper, and the Combat for the Standard, by Leonardo da Vinci.—Il Giorno, and Sc. Catherine, by Correggio.—Aurora, and Doctors of the Church, by Guido.—The Triumph of Bacchus, by Caracci.—The Last Communion of St. Jerome, by Domenichino. Cervantes, by Velasquez.—The Immaculate Conception, by Murillo.—The Lion Hunt, by Rubens.—Christ crowned with Thorns, by Van Dyck.—The Knight of Death, by Dürer.—David and Saul, by Van Leyden.—The Burgomaster Six. and The Mill, by Rembrandt.—The Three Fates, by Michael Angelo.—Belisarius, by Salvata Rosa.—The Rat-Catcher. by Visscher.—The Sudarium, by Mellan.—The Embarkation for Cythera, by Wattean.—The Distressed Foet, by Hogarth.

GALLERY OF GREAT ARTISTS.

A Series of Portraits engraved on Steel, by Eminent Engravers, reproduced in Heliotype. With Biographical and Descriptive Letterpress. Containing Portraits of Leonardo da Vincel, Raphael, Michael Angelo, Correggio, Titan, Caracci, Guido Reni, Velasquez, Murillo, Salvator Rosa, Poussin, Greuze, Claude, Dürer, Holbein, Rembrandt. Rubens, Van Dyck, Hogarth, Reynolds, Landseer, Turner, Copley, Stuart. 1 vol. large 4to, elegantly stamped, 510.

THE TITIAN GALLERY.

Twenty-four of the finest and most popular of Titian's Pictures. With full account of the Artist and his Works. 1 vol. large 4to, elegantly stamped, \$10.

Works. I vol. large to, elegantly stamped, \$10. CONTENTS. — Titian's Daughter. — Titian's Mistress. — Pietro Arctino. — Isabella D'Este. — Francis I. — Charles V. — Damaë. — Flora. — Laccoön. — Sophonisba. — Three Stages of Life. — Venus and Cupid. — Venus Sleeping. — Venus and the Mirror. — The Assumption. — The Entombment. — The Great Holy Family. — The Martyrdom of St. Peter. — St. Jerome in the Desert. — The Supper at Emmans. — The Tribute Money. — The Madonna and Angels. — Magdalen.

, These Heliotype volumes are of the same general style with the Landseer Engravings, Toschi's Engrav-ings, Raphael Studies, and Child Life in Pictures, which have proved so acceptable to the public.

JAMES R. OSGOOD & Co., Boston.

THE PICTURESQUE ARCHITECTURE
OF SWITZERLAND. Containing designs of Country
Houses in several Swiss Cantons. Drawn and engraved by
A and E. VARIN Reproduced by the Heliotype Process.
I vol. quarto. Boards \$12.09.
This attractive volume abounds in suggestions to American architects for making country houses picturesque as
well as convenient.

JAMES R. OSGOOD & CO., Boston.

RAPHAEL PICTURES. A Series of Studies, designed and engraved after five paintings by Raphael. With Historical and Critical Notes by M. T. B. EMERIC-DAVID, member of the Institute of France.

This volume contains twenty-four Plates, reproduced in fac-simile and with admirable success by the Heldstype Frocess. The subjects represented are "Tao V situation." The Holy Family "(two groups), "The Madonna of the Fish," and "The Bearing of the Cross." Quarro. Proce. \$100.8.

JAMES R. SSGOOD & CO., Bosrox.

MEDIÆVAL FOLIAGE. By J. K. Col-

GENERAL HARD TIMES.

Pensions procured and increased. Bounties obtained from \$100, \$200, \$302 to 402 (veteran). Petents for inventors. Late Post-masters' accounts settled. Address (with stamp), W. II, GODDARD, Attorney-at-Law, Washington, D.C.

TWO PRIZE MEDALS.

WOOD SHUTTERS



AT PHILADELPHIA

J. G. WILSON.

IMPROVED Rolling Steel Shutters,

Fire and Burglar Proof,

PRICE LIST.

68 Beekman Street, New York.

State rights for patent Shutters for sale. Agents wanted.

WESTON'S DIFFERENTIAL PULLEY BLOCKS.



DOYLE'S, HALL'S, & BIRD'S,

THE YALE LOCK MANUFACTURING COMPANY, HENRY R. TOWNE, President,

STAMFORD, CONN.
Adapted for all hoisting purposes.

HOLD THE LOAD SUSPENDED AT ANY POINT.
ENABLE ONE MAN TO DO THE WORK OF FOUR OR FIVE.

ESTABLISHED 1888

Palmer, Parker, & Co.

Manufacturers and Dealers in every variety of

FOREIGN AND DOMESTIC FANCY WOOD

WALNUT (Blister, Mottled, Striped, Burl, and Crotch),

FRENCH WALNUT, BIRD'S EYE MAPLE, HUNGARIAN ASH, SATIN, TULIP. ROSEWOOD, etc., MAHOGANY, THUYA. WHITE HOLLY,

In Logs, Planks, Boards, and Veneers. Dowels all Sizes

suitable for

CAR BUILDERS, CABINET, PIANO, AND BILLIARD TABLE MANUFACTURERS.

Office, 10 Travers St., Boston.

CLARK & COMPANY'S Patent Self-Coiling Revolving Steel Shutters.

162 & 164 West 27th Street, New York.

AGENTS WANTED. and at London, Paris, Vienna, Berlin, Melbourne, &c.



SEWERGASSHUTOFF!



JENNINGS' SPECIALTIES

IN ALL KINDS

JENNINGS PATENT SIX- JOHNINGS PATCHT WATER CLOSETS JENNINGS PATENT PERSON URINAL DISINFECTOR. Patent Slop and Kitchen Sinks, Tip-Up Wash-Basins, Street Urinal, Private Urinals, Patent Latrines, and other specialities (the peculiar ty of all or which is the thorough exclusion of sewer gas), with a large stock of general plumbers' supplies on hand.

Illustrated descriptive circulars sent on application.

A. G. MYERS, Manager.

JENNINGS' SANITARY DEPOT, 94 Beekman St., Works, 9 & 11 Hague St., New York.

THE HOUSEHOLD ART ROOMS.



C. A. WELLINGTON, PROPRIETOR,

PLAIN, ENCAUSTIC, & ART TILES. Also Tiles for Furniture. Decoration, and Bathroom Linings.

Contractor for Tile Work in Dwellings and Public Buildings.

A FINE ASSORTMENT OF FIREPLACE LININGS, HEARTHS, AND HALL, VESTIBULE, AND BANK FLOORS.

AND BANK PLOUKS.

Manufacturer of Fine Furniture, and Importer of rare
Etchings and Engravings. No. 170 Tremont St., Boston.

THE NATIONAL ODE

Recited at Philadelphia July 4, 1876, by Bayard Taylor, PRINTED BY THE HELIOTYPE PROCESS

In perfect fac-simile of Mr. Taylor's Manuscript. 4to. \$1.50.

The I startic occasion on which this Ode was recited, the majestic and classical char-r of the Ode, and the rare attractiveness of Mr. Taylor's permandip which is repro-d with absolute accuracy, give peculiar value to this volume as a s_avenir of a meaor-

JAMES R. OSGOOD & CO., Boston.

Boston Ornamental Iron Works

For Ruilding

IRON AND WIRE RAILING, IRON CRESTINGS,

IRON STABLE FIXTURES. FOUNTAINS,

GARDEN STATUARY.

WEATHER VANES,

AND

BUILDERS' HARDWARE.

Estimates given on all kinds of Iron Work.

Send Stamp for Catalogue BUBIER & COMPANY, 118 MILE STEET, BOSTOK.

HOMES AND HOW TO MAKE THEM.

By E. C. GAMDYRE. Unstrated 1 vol. square 12mo

JAMES R. OSGOOD & CO., BOSTOR.

ARCHITECTS.

WROUGHT AND CAST IRON OFFICES OF FRANK W. WESTON, (17 Pemberton Sq. Boston.)
ARCHITECT,
178 DEVONSHIRE ST., AND 33 FEDERAL ST.,
BOSTON.

> ARCHITECT. PERRY BUILDING. WALTER

VASES, CONTRACTORS & BUILDERS.

W. H. WARREN,
BUILDER AND CONTRACTOR
NOS. 485 & 400 HARRISON AVEKLE, BO

MEAD, MASON, & CO., BUILDERS, Steam Mill at Concord N. H. Offices to Caucal Street, Boston, and Concord and Manchester, N.H. Churches and Public Buildings a specialty. Estimates given.

C. H. HALL, Stair Builder, and Manufacturer of Stationary Wash Stands, 37 Haverbill St., Boston. Posts, Rails, Balusters, & Office Rails, furnished to order



Franklin Press: Rand, Avery, & Co., Boston.

EXAMPLES OF MODERN ARCHITEC-and others. I vol. quarto. 64 plates. \$15.00. Contaming designs for Churches, Cathedrals, Colleges, Italis, Railway Stations, Museums, Model Dweilings, Baths, &c.





ES.
and
lor,

char-repro-enders, EEC-LING, satha, satha,