

THIS ISSUE ILLUSTRATES RECENT WORK OF DAVIS, McGRATH & KIESSLING

THE
AMERICAN
ARCHITECT

PUBLISHED
EVERY WEDNESDAY
IN NEW YORK

VOLUME XCVIII

OCTOBER 26, 1910

NUMBER 1818

DAYLIGHTING

by the Luxfer System brings the results you want. Luxfer Prisms are not merely window glass, but are made of the finest quality pressed crystal glass by our own special process.

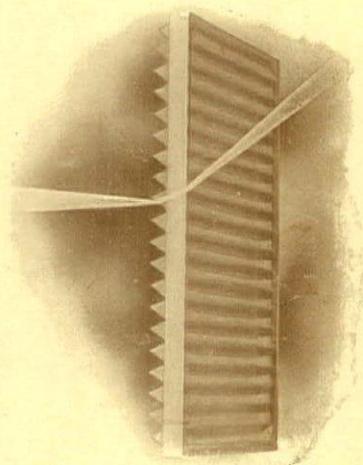


PLATE I. This illustration shows how light rays are bent by means of prism angles.

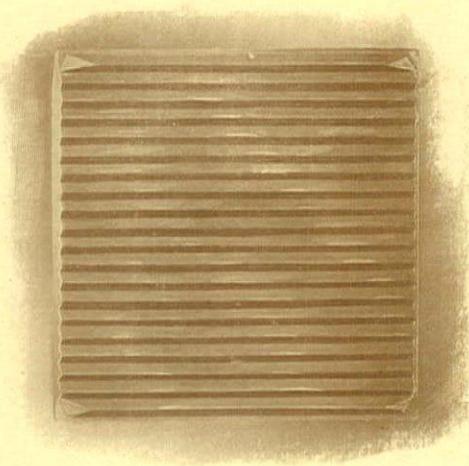


PLATE II. This illustration shows appearance of simple prism square. Note angles on surface.

The operation of *Luxfer* like most scientific successes is extremely simple. In Plates I and II we show the manner in which light is diverted to any desired point. The same principle holds in all the various forms of *Luxfer Prisms*.

We have but to change the angles, and construct our prism to meet conditions.

It must be remembered, however, that this is not a matter of guess-work. We have gone to great expense in securing the services of the world's best specialists in this line and every problem that comes to us whether it involves a large or small expenditure is passed upon by experts in daylight illumination.

It is possible to install so-called "glass prisms" that lessen rather than increase the daylight illumination in a given room. Cases of this kind are by no means rare.

Luxfer brings unfailing results because it is always designed to meet a given condition.

We guarantee that *Luxfer* will accomplish every result we claim for it.

Send for Booklet

AMERICAN **Luxfer Prism** COMPANY

OFFICES

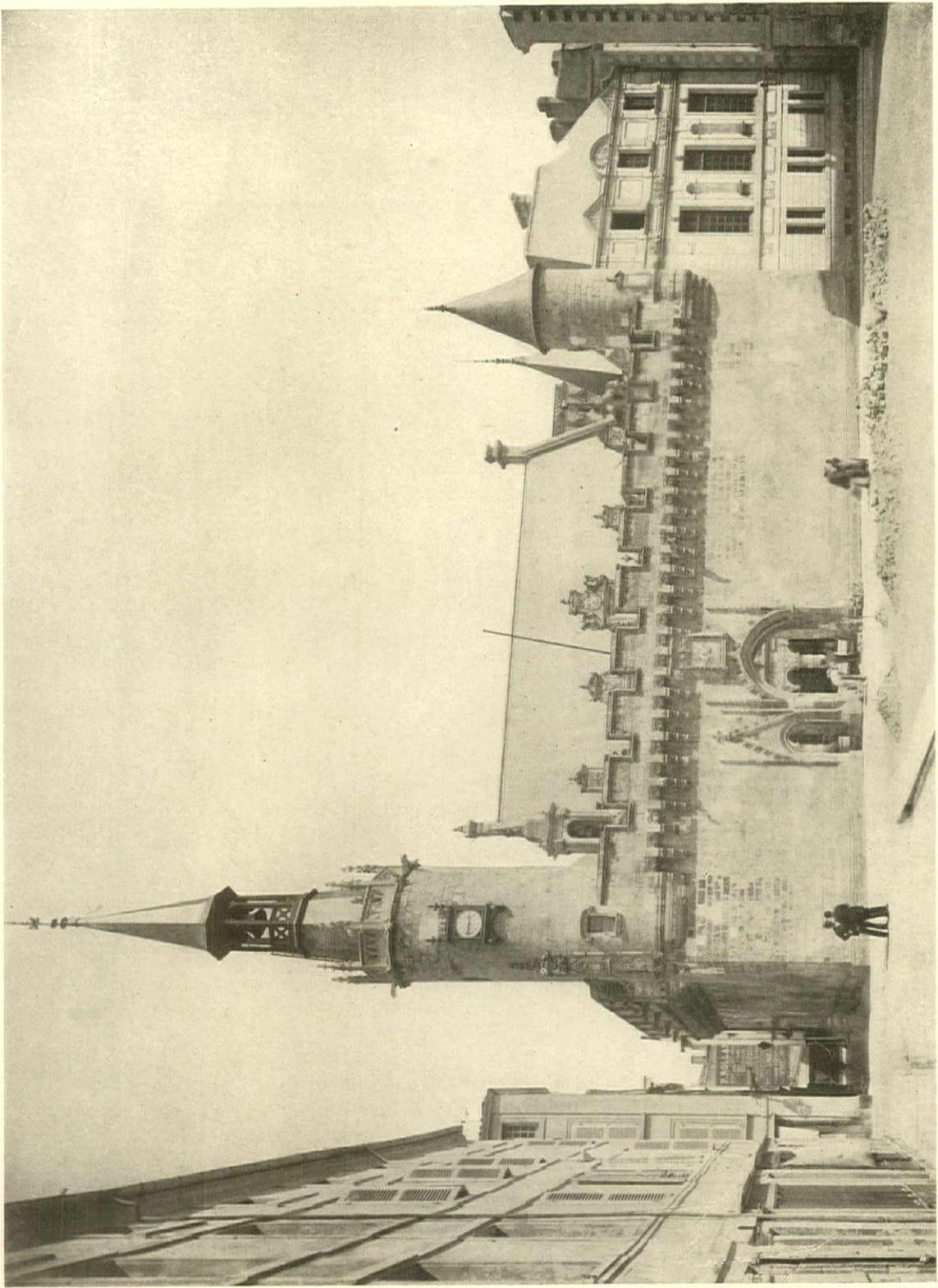
CHICAGO, Heyworth Bldg.
BOSTON, 49 Federal St.
BALTIMORE, 34 Old Builders' Ex.
CLEVELAND, 406 Garfield Bldg.
CINCINNATI, 37 Thoms Bldg.

DULUTH, 106 W. Michigan St.
KANSAS CITY, 948 N. Y. Life Bldg.
MILWAUKEE, 1300 Majestic Bldg.
INDIANAPOLIS, 10 E. Market St.

NEW YORK, 507 W. Broadway.
NEW ORLEANS, 904 Hennen Bldg.
PITTSBURGH, 1022 Fulton Bldg.
PHILADELPHIA, 807 Chestnut St.

ROCHESTER, 38 Exchange St.
ST. PAUL, 615 Ryan Bldg.
SAN FRANCISCO, 151 Tehama St.
SEATTLE, 425 Henry Bldg.
DALLAS, Builders' Exchange.

THE AMERICAN ARCHITECT



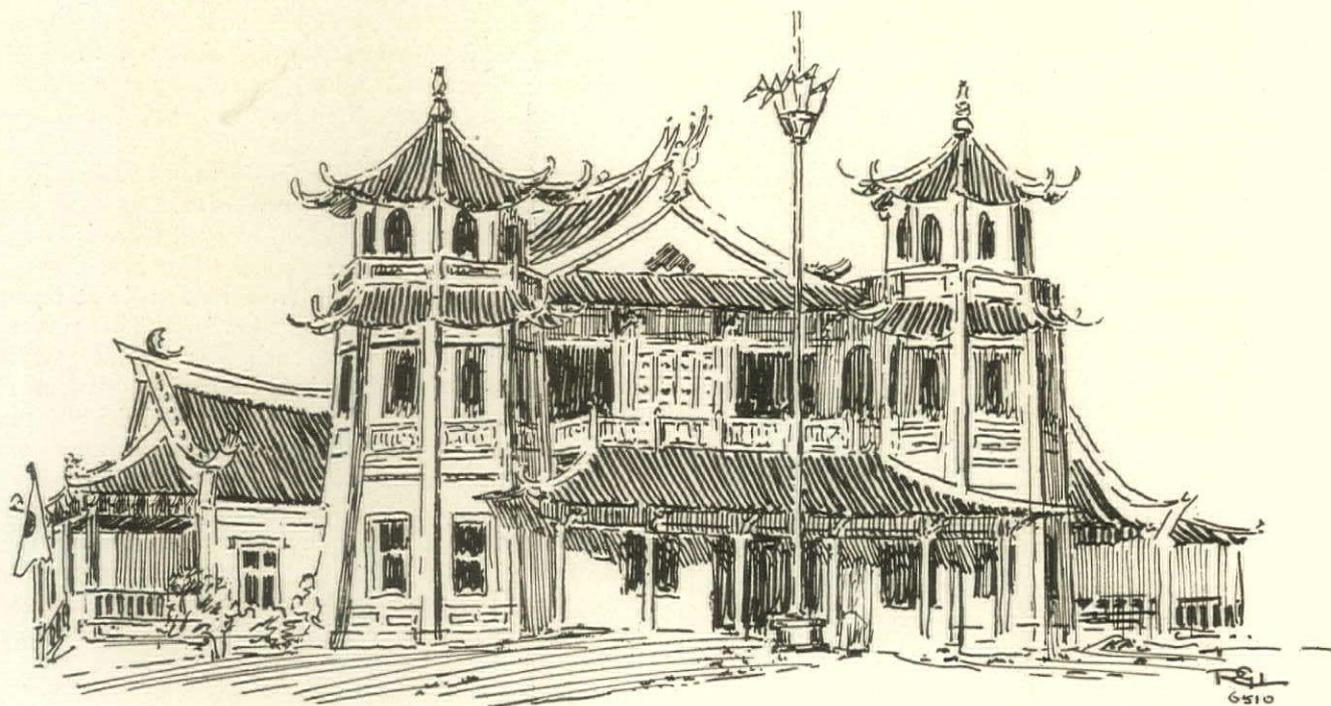
HOTEL DE VILLE, LA ROCHELLE, FRANCE

THE AMERICAN ARCHITECT

Vol. XCVIII

WEDNESDAY, OCTOBER 26, 1910

No. 1818



A VISIT TO THE NAGOYA EXHIBITION, JAPAN

By R. G. LOVELL

Illustrations from Original Sketches of the Exhibition Buildings by the Author

NAGOYA is a flourishing commercial city of about 250,000 inhabitants. It is the largest town between Tokio and Kyoto and has made rapid strides in progress within recent years. It is now one of the leading cities of the Empire and has attracted a considerable amount of enthusiasm throughout the country in support of its excellent exhibition. This is the tenth national exhibition which has been held in Japan and it is on a more extensive scale than any of the previous ones. A hundred acres have been set apart for the ground and buildings, the total cost of which has been borne by the Province of Aichi, of which Nagoya is the chief town.

The city's famous castle looms up high above the city. Two gigantic golden dolphins which adorn the roof seemed to glide and glitter from the top of the five-storied donjon. The eyes are of silver and the scales of pure gold. Each dolphin is valued at £18,000 sterling and measures over 8 feet in height. To the great distress of the inhabitants, one of them was wrecked on the journey back from the 1873 Vienna Exhibition; misfortune to the town followed for some time, until after great difficulties the sunken dolphin

was at last recovered and restored to its original position, amidst public rejoicing of the citizens.

The approach to the long line of white exhibition halls is very imposing. In front of the main entrance is a large cascade arranged in a terraced basin and surrounded by ornamental shrubs and flowers. This is directly in front of the main entrance, which is capped by domes and flanked on either side by wide curving colonnades. These colonnades terminate with small towers which are used as the ticket offices. From the rough sketch I send it will be seen that the architects have followed the traditions of the French Renaissance. They have possibly been more successful with the machinery hall, which is a good piece of Art Nouveau work. The music pavilion, built on a granite base, is in good proportion, the dome ornamented with musical signs and the iron railing made to represent musical notes.

Architecture, as we understand the term, is not natural to the soil of Japan. The marble temples of Greece and Rome, the Gothic buildings of Northern Europe or even our own manor houses of brick and stone could have no place in this land of earthquakes and

tremors. The Shinto temples of Old Japan are famous for the lavished efforts of the wood carver and the painter, not for the skill of the builder or architect. The buildings are of wood, wattle and paper, and the roof of thatch or tiles; the only pretence to foundation being a large stone placed upon the ground for the main uprights to rest upon.

With these traditions, it is interesting to observe how these clever people solve the problems in constructing buildings in the "Foreign Style." Many of them have been students in Europe and America and have now established their own architectural schools. My friend, Mr. Teiji Suzuki, one of the architects of the exhibition, is also Professor of Architecture at the Higher Industrial School, Nagoya. Mr. Suzuki explained that



the total cost of laying out the grounds and constructing the exhibition buildings was about £75,000. The main halls alone cover an area of 50,000 superficial yards. The construction itself is essentially Japanese; although clothed in foreign style to represent stone and stucco, it is formed of wattle, bamboo and plaster. This then must be the secret which enables such a startling result to be produced at so small a cost.

To a foreigner like myself the smaller buildings in the native style produce a more pleasing effect. It does not gratify our friends and allies to be told this. They boast that they have done in forty or fifty years what it took us in Europe many centuries to accomplish! They certainly appear to be prouder of their more recent efforts than of the works of their predecessors.

One of the most attractive buildings in the grounds is that erected by the Formosan Government. It is more Chinese than Japanese in design, but to our foreign eyes it appears to grow more out of the ground and seems part and parcel of the soil, and is very cleverly adapted to modern requirements.

On a hillside is reproduced one of the most famous buildings of Kyoto, Kinkakuji, or the Golden Pavilion. It is a delightful little three-storied building intended for the entertainment of notable guests who visit the exhibition. The original pavilion at Kyoto is all that remains of an extensive temple built at the end of the fourteenth century. It was almost completely covered with gold, nearly all of which has since disappeared, although the original work remains and bears testimony to the beauty of the work both of the painter and the carver.

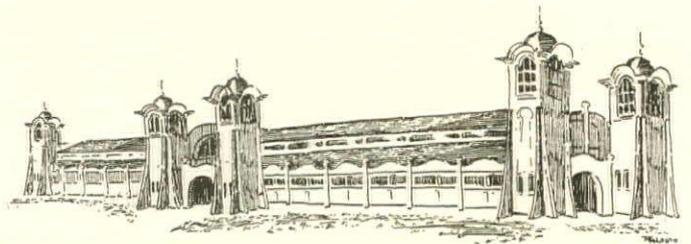
There is a full-sized reproduction of Nagoya castle, which appears almost superfluous with the original so near at hand. In a typical Japanese building the Imperial household are showing a special exhibit of forestry; here may be seen the different kinds of wood

from the forest reserves of the Imperial family. The supports are rough trunks of trees representing different species, and the ceilings are panelled to show to best advantage the grains and quality of the wood. I understand that the Imperial Household has never taken part in an exhibition before.

All Japan has contributed exhibits grouped under the following headings: Agricultural Products, Silk, Food and Drink, Dyed Goods and Woven Fabrics, Porcelain, Cloisonné and Metals, Forestry Products, Articles for Personal Adornment, Lacquered Wares, Wood and Bamboo Manufactures, Specimens and Machinery.

Nagoya was the first city in Japan to make clocks and is noted for its manufacture of violins, porcelain and cloisonné ware; as may be supposed there is an extensive collection of these goods. The best Nagoya cloisonné is quite distinctive from that made at Kyoto or Tokio. The basis of the vase is of silver, often beaten up into the design, such, for instance, as in water and wave pictures, wires are also soldered on as in the usual work, but the enamel employed is for the most part transparent, so that very delicate results are obtained by the silver shining through the glaze.

The collections of the recognized Japanese products did not detain me long, except to observe the quantity and variety of the exhibits. The general impression being that quality did not seem now to be the dominating character of Japanese industries. The most lasting impression that I brought away was the extraordinary progress made by these clever people in reproducing the products of European manufacturers. The largest exhibits were those of dyed goods and woven fabrics. It would be a revelation for our Lancashire and Yorkshire friends to see the working models of looms and appliances produced by the nimble hands and brains of these sons of Nippon. They seem to be able to turn out practically all that we can do.



The Japanese home market is being gradually closed to us Europeans. Although one hears a great deal of the open door in Manchuria and Korea, the economy of cost and facility of transport must in time surely preclude our goods from these markets also. And why not? The industry, sobriety and thrift of the Japanese entitle them to all the advantages they can gain. They are a peaceful people weary of war of weapons, but keen for commercial competition. They have all the advantages on their side. The great lesson for us at the Nagoya exhibition is to remember how little there is for the Japanese still to learn.

There is a fine display of art treasures in the exhibition proper, and an excellent collection of modern pictures is being held in the Commercial Museum in the town. Experts in "flower arranging" and "tea cere-

monies" give frequent exhibitions of their skill. These functions appear monotonous to a European, but are of fascinating interest to the cultured Japanese.

Another attraction of exciting interest is the cormorant fishing, a custom kept up to the present day in many districts. These great ungainly sea birds are trained when quite young to assist their masters. The fishing takes place at night and by torch light. The fish are attracted by the light. The bird wears at the base of its neck a bone ring, tight enough to prevent marketable fish from passing below it but at the same time loose enough to admit the smaller prey which serves as food. The master stands at the head of the boat and gathers into his hands the stiffened cord, which is attached to each bird, as he lowers them separately into the water. An expert man can thus control a dozen birds, but has a very busy time, as the cormorant sets to work diving and ducking with wonderful swift-

ness. The master must have his eyes everywhere and his hands following his eyes and he must handle his reins so deftly that there should be no fouling as the birds dash hither and thither. Specially must he watch for the moment when any of his flock is gorged, a fact generally made known by the bird itself when it swims about in a foolish, helpless way with its head and swollen neck erect. The master hauling in on that bird, lifts it aboard, forces its bill open and squeezes out the fish, then starts it off again on another expedition—all this with such wonderful dexterity that the other birds have no time to get into a tangle.

The exhibition grounds are very tastefully laid out. The gardener has made the most of every natural feature, the show of flowers and shrubs was good but the condition of pathway and road left much to be desired. At night the buildings are illuminated with electric light, and there are frequent fire-work competitions.

POLYCHROME TERRA COTTA*

ITS INCREASED USE AND RAPID DEVELOPMENT

THE use of artificially colored terra cotta has developed with a rapidity little short of startling.

Fortunately the more important work has usually fallen into the hands of well known architects who have been able to develop it with discretion; though their efforts are not always entirely free from that tendency toward extravagance which usually attends the introduction of new methods or materials.

On the whole, one is justified in saying that discretion has been used. This is the more necessary because the innate tendency of men is usually toward bright color until the restraining influence of a trained judgment is felt, and especially so in more northerly climes where veiled half-tones are better suited to our more clouded skies, with their diffused lights, which bring out all those nuances and subtle values which sunlight kills.

Polychrome architecture, therefore, requires the nicest judgment with an ample background of experience as it is difficult to foresee the effect of new colors and combinations and the modifications due to varying distances from the eye and heights above the ground.

The accompanying illustrations show some recent work in this direction as well as it can be shown in monotone reproduction, but supplementing these views by a verbal description the total effect can be pretty accurately imaged.

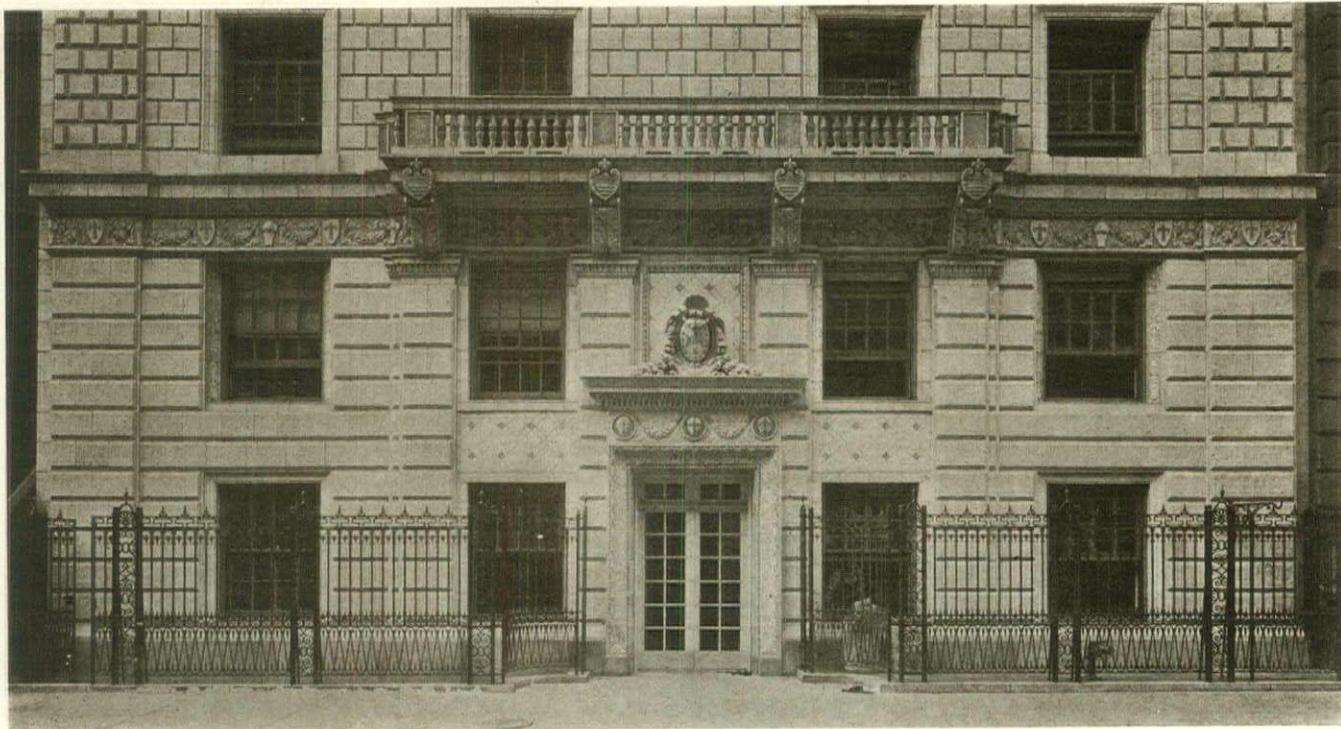
The inclination to use gray as a basic tone, enlivened with green and old gold, is one of the more recent developments. Churchill's restaurant, Broadway and Forty-ninth Street, New York (Herbert M. Baer, architect), is a good example. Gray actually predominates in surface extent but is insignificant by contrast with the more lively colors. It serves the purpose of differentiating the architectural features from each

other and yet binds them together. The spandrel panels are of green tile, the modeled architrave is decorated in old gold and green, and these colors are repeated in the cornice. The parapet and ornamental pediment are of light gray terra cotta.

A rather unusual color treatment occurs in the Fourth Avenue Building, Fourth Avenue and Twenty-seventh Street, New York; Charles A. Valentine, architect. Here the dominating tone is again gray. The building is sixteen stories high of gray brick and terra cotta. The spandrels from the third story up are gray with old gold flutes. In this feature the colors are not distinctly separated from each other but merge together into a soft warm color, and the result is excellent. The shield panels of the spandrels are outlined in dark blue, used rather to emphasize the modeling than to lend color value to the scheme. The pendant panels at the twelfth story are rather more prominent in gray, old gold and blue, and the brackets at the thirteenth story show stronger individuality in yellow, blue and gray. The spandrels of the three upper stories repeat the color scheme of the lower spandrels, but the modeling is somewhat different. The pilasters have central panels of bright yellow large enough to give true color value. The gray of the architrave is brightened with old gold, and the modeling is again defined with blue. Panels of rich sienna in the frieze give character, tone and warmth to the whole building, and add life to the lighter contrasting colors. The building ends in an overhanging cornice, its shadow relieved with colored ornament.

The Bishop Stang Day Nursery, at Fall River, Mass., Mathew Sullivan, architect, obtains an excellent color effect by the use of bright red brick, white terra cotta, and Della Robbia Bambino panels in terra cotta with a Della Robbia blue background. There are but four panels, yet by what might be termed the *unexpectedness*

*We are indebted to the Atlantic Terra Cotta Co. for the illustrations accompanying this article and for information regarding details.



APARTMENT HOUSE, EAST FIFTY-EIGHTH STREET, NEW YORK, J. E. R. CARPENTER, ARCHITECT

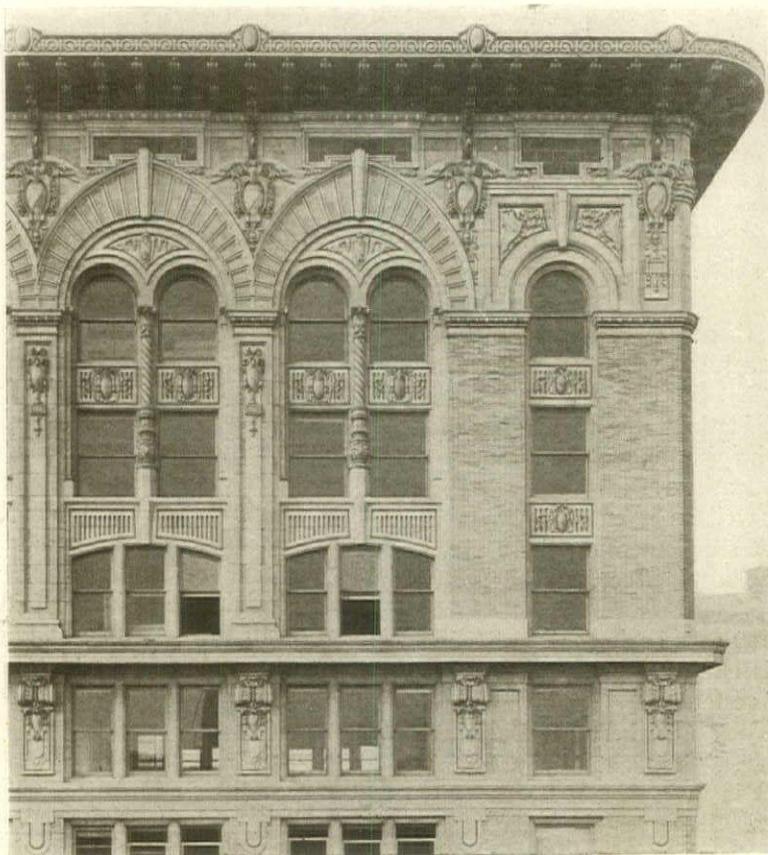
of the blue backgrounds they catch the eye and accentuate the cheerfulness and life of the façade. It is a good example of what may be done in a small building with a very meager use of color.

A delicate and effective color treatment is used on the recently completed apartment house, 116 East Fifty-eighth Street, New York, J. E. R. Carpenter, architect. It is a good example of modeling supplemented by color. The terra cotta ashlar of the two lower stories is modeled in low relief, and free from color except for the yellow rosettes in the spandrels, next to the entrance. The entrance is elaborately modeled, but also in low relief and treated in yellow and white with slight touches of light green. The color is applied with intentional lack of exactness to avoid a too mechanical effect. In the belt course and

brackets under the third story balcony, larger area is allowed for color to minimize the natural shadow. Low relief again occurs in the yellow and white balusters and panels of the balcony. With the exception of the yellow and white shield at the fourth story level the

entire façade is pure white from the third to the seventh story. Here the balcony and its attendant features show green and yellow seemingly in the same ratio as in the lower balcony, but actually in a bolder way to overcome the diminishing effect of distance from the ground. The top story panels and the main cornice not only increase the color areas but use stronger colors to bring the scheme to a consistent conclusion. Green and yellow are supplemented by a warm old gold shade, and dark blue is used on backgrounds.

This building—thought not in the least spectacular—



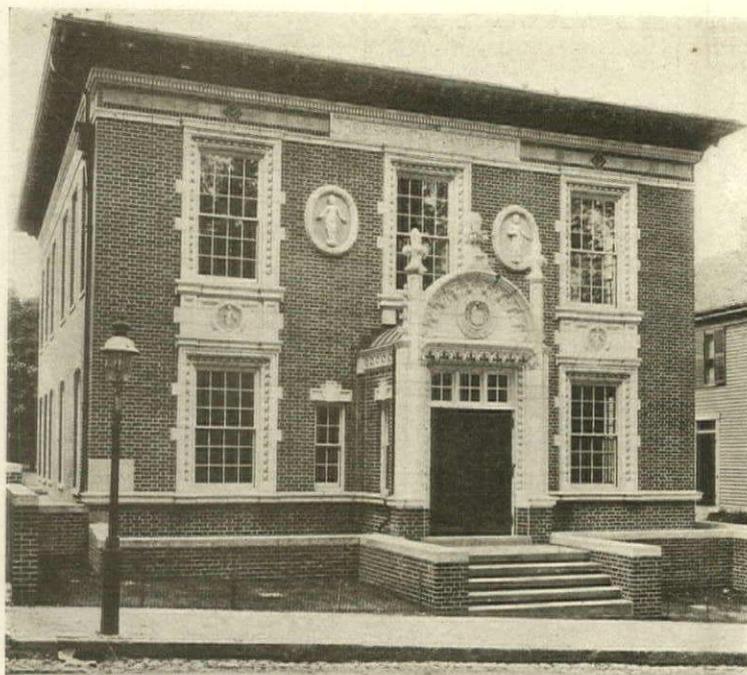
UPPER STORIES, FOURTH AVENUE BUILDING, TWENTY-SEVENTH STREET AND FOURTH AVENUE, NEW YORK

shows to advantage the possibilities of polychrome terra cotta. Entirely of terra cotta from the sidewalk up, the large fields of rusticated ashlar indicate the convenience and simplicity of construction, while the varied colors and the modeling of the other features demonstrate its adaptability.

Undoubtedly polychrome terra cotta has come to stay, and now that the experimental stage is over, and the need of excessive caution passed,

its development seems likely to be rapid. The architect can use color in a medium that lends itself easily to modeling—and color and form go naturally together. Moreover, terra cotta colors do not fade, are easily cleaned, and the material is absolutely fireproof and will last indefinitely.

The desirability of well arranged color in our everyday life cannot be overestimated. Aside from its artistic influence, scientists have many times, and we believe successfully contended, that temperament is largely



A DAY NURSERY AT FALL RIVER, MASS., MATTHEW SULLIVAN, ARCHITECT

influenced by the dominating color of our environment.

The man who has traveled abroad, and is familiar with the lavish use of color that prevails, particularly in Southern Europe, knows how important a part it plays in those countries of brilliant sunlight. How much more, then, is it to be desired, that in this country, where we have long periods of lowering skies, that in our walks about the streets we should be

greeted with something better than the monotony of brick and stone that now confronts us. It is here the architect has his opportunity, keeping in mind as stated at the outset, that he should endeavor to avoid the glaring intensities of the primary colors, and use, with artistic judgment, the secondary and more subdued tones. The examples shown will serve to indicate the use of this new-old medium of expansion, and the means placed in the architect's hands by recent improvements in the manufacture of polychrome terra cotta.



CHURCHILL'S RESTAURANT, FORTY-NINTH STREET AND BROADWAY, NEW YORK

HERBERT M. BAER, ARCHITECT

ELEMENTS of RENTAL VALUES of OFFICE BUILDINGS

An interesting paper on "Comparative Rentals of Office Buildings" was read by Mr. F. H. Heywood, of Columbus, Ohio, at the recent national convention of building owners and managers in Washington.

From a report of the proceedings in the October issue of *Building Management* we extract from Mr. Heywood's paper the following paragraphs as of immediate interest to architects:

The several items which go to justify differences in rates in different parts of the same building may be set down as follows:

First. The advantage of advertising upon the windows commanding a view of the principal street or streets. Though this is different in different cities and in different locations within the same city, yet instances may be noted where a corner room with windows facing two prominent streets and upon the second floor will rent for 40 per cent. more money than the same sized room at the same corner upon the sixth floor, and 130 per cent. more than the average of the building, 300 per cent. more than the low rate in the building, 17 per cent. more than the same room on the third floor, and 25 per cent. more than the same room on the fourth floor. Again this room commands 17 per cent. more than the one adjoining it upon the principal street and 25 per cent. more than the room adjoining it upon the side street. The manager of the building, under consideration, tells me he has no trouble in getting from 50 to 100 per cent. more rent for rooms which offer advantages for advertising the tenant's business, either by having windows facing principal streets or entrance doors facing the elevators.

Second. Units or rooms with entrance convenient to elevators, or with the entrance directly facing the length of the corridor, in some buildings have added value.

Third. *View and quiet.*—The upper floor units nearly always command a higher rental, in some instances as much higher than the middle floor, as the advantages of advertising on the second and third floor are greater than on the middle floor. There is everywhere a class of tenants willing to pay for the view obtained from their office windows and for the quiet obtained by height above the noisy streets.

Fourth. *Natural light.*—In the West particular attention has been given to an effort to obtain natural light to each unit and as a result large areas have been devoted to light courts. Whether or not this pays is difficult to determine. I have at times been inclined to doubt it. You can nearly always find some tenants who are easily satisfied with artificial light if they can get a lower rental rate, and if you make your own current you can afford to simply figure fuel cost, when comparing extra cost of lighting these dark rooms with what you can get for them. Of course additional cost of construction and service must also be figured. But take a room on a light court with the view obstructed as it must be and very little if any natural light. At the bottom of the shaft you can get practically no more rent for it, because it has windows opening upon the court, than you could if it simply had good ventilation, which

can be had without the windows, and you have lost the space upon valuable ground for many floors in a court which might be yielding an additional income. The rental rate procurable from office space facing light courts varies of course with the amount of natural light therefrom to be obtained, as well as with size and depth of the court. In nearly every instance I have examined even above the adjoining buildings, where the light is wholly unobstructed, the rental rate is 10 per cent. below the same space facing a street. And this same rate seems to follow on downward 10 per cent. off of each floor above for each floor below it, after you pass down from the top of the well.

Fifth. *The direction from which light comes.*—Here there is a great diversity of opinion and it is doubtful if this has any effect upon rates, though it may have its effect upon securing certain classes of tenants. As a rule light from the west seems to be the least desirable. Architects, doctors, dentists, some lawyers, and most office tenants, who devote much time to work requiring absence of shadows and close eye application, prefer north or east light. The south lighted unit always rents well, though it has not much of a lead over the north and east. All this is irrespective of view or other considerations. And so we come to the effect which elegance of structure has upon rates. And you know, and I know, it does affect rates and sometimes very seriously. In many instances it has a greater tendency to reduce the rates of competitive buildings less elegant and built for revenue than to increase them for the elegant building itself. Not that I would for a moment decry all that is fine and great and beautiful in the architecture of our modern office buildings, but you and I, Mr. Manager, are expected to and are desirous of making good returns to the owner upon the value of his investment.

And then we have the *big* building with its tower reaching almost above the clouds, where you may have an office on the forty-eighth or sixty-second floor, nearly a fifth of a mile above the seat in your automobile at its front gate, the one which consumed 860,000 days of labor to construct, enough to keep one man busy 2,360 years. Built to advertise the business of some great corporation, such as the Metropolitan Building, the Singer Building and others. Nearly every city has one of these advertising structures and they *do* advertise their owners' business as well as the business of tenants who occupy them. Try it out and see. Go to Europe, for instance, you may have to explain to some native there that San Francisco is not in the suburbs of Philadelphia, or that Roosevelt is no longer king of the Irish in America, but if you tell him you have an office in the Metropolitan or Singer Buildings he will know at once you are from New York.

Building Operations for September

According to statistics compiled by *Construction News*, permits were issued in fifty-eight of the leading cities of the country during September for 16,698 buildings at a cost of \$49,066,879, as compared with 16,057 structures that were begun during the corresponding month of 1909, involving an expenditure of \$51,950,931. This is an increase of 641 buildings, and a decrease of \$2,884,052 in cost, or a little over 5 per cent.

THE AMERICAN ARCHITECT

PUBLISHED EVERY WEDNESDAY BY THE
SWETLAND PUBLISHING COMPANY

239 West 39th Street, New York

H. M. SWETLAND, *President*, M. J. SWETLAND, *Treasurer*, E. J. ROSENCRANS, *Secretary*, G. E. SLY, *Advertising Manager*.

Editor,

CHARLES FRANCIS OSBORNE,
(Department of Architecture, University of Pennsylvania.)
Associate Editor, WILLIAM H. CROCKER.

SUBSCRIPTION RATES

United States and possessions, Mexico, Cuba, \$10.00 per year; all other countries, \$12.00 per year.

Entered at the Post-office, New York, as Second-class Matter.

NEW YORK, OCTOBER 26, 1910

CONTENTS

A VISIT TO THE NAGOYA EXHIBITION.....	137
POLYCHROME TERRA COTTA.....	139
ELEMENTS OF RENTAL VALUES.....	142
EDITORIAL COMMENT.....	143
A WORLD EXHIBITION OF TOWN PLANNING.....	144
SANITARY CONVENIENCES FOR THE TENEMENT.....	144
ILLUSTRATIONS: Some Recent Work of Davis, McGrath and Kiessling.	

Frontispiece: Hotel de Ville, La Rochelle, France.

A PARTIAL ECLIPSE

THE futility of doing good architecture in a conspicuous public place when there is no legally constituted commission to safeguard such interests is well illustrated by the recent appearance of an advertising abomination which rears its abhorrent form in New York alongside the *Times* building. This latter, since its erection, has been one of the distinctive architectural achievements of the city.

On another page we show a view of this advertising tower, from which it may be seen that its scale and size bring it into such immediate physical competition with the *Times* tower as to wholly throw the latter out of its proper relation to the scene.

The situation thus created would not be so bad if the competing tower were a thing of beauty, but its gross vulgarity, typical of the spirit of its erection, creates an effect suggestive of a crass boor in refined company.

THE AMERICAN ARCHITECT has received from several sources within the past few days clippings from daily papers in the Middle West which applaud this tower as a smart piece of St. Louis business enterprise, and refer contemptuously to those New Yorkers whose "artistic ideas" are offended.

The tenor of these clippings uniformly appears to be that, as the advertising enterprise promises to be commercially successful it is futile to pay any attention to protestants whose only objection is an æsthetic one.

We do not know how far this attitude of the press represents public opinion in the Middle West, but we have the best of reasons for knowing it does not in the least represent the opinion of architects there; and we venture to suggest to chapters of the Institute in whose territory such sentiments are given expression to by the daily papers that they could engage in no more laudable educational work than to counteract, by chapter resolution and by individual effort, the utterance of such sentiments in any community.

COMPETITIONS AND THE INSTITUTE

WE called attention in our last issue to a right and a wrong way of conducting architectural competitions, as tested by the standards recently set up by the Institute.

There can be no doubt that the Institute's rules make for the best interests of both owner and competitor, and perhaps embody all that can be hoped for at present. Yet it is permissible to doubt whether the final word has been said. Time and space alike forbid a discussion at the moment of the fundamental principles of competition among artists, but it seems also permissible to say that a categorical negative cannot be given, as the tenor of the Institute's rules appears to imply, to the proposition that competitions are justified by the essential conditions of the situation which always arise when a body politic, or commercial, proposes to erect a large, conspicuous, or complex structure. The results of competitions may vary as between this or that particular case, and it sometimes happens that it is difficult to pronounce certain judgment between the best half-dozen of the designs submitted. But it is quite as likely to happen (as, for example, in the recent case of the Pennsylvania Masonic Home) that one design is so evidently a better solution of the problem than any of the rest that it puts a quietus on the proposition that it is better to select your architect without competition. This, however, is a purely professional matter, and a careful compliance with the Institute's rules will wholly safeguard the best interests of the owner and, by so doing, those of the architect as well.

PORTLAND AND SEATTLE

THE growing importance of both Portland and Seattle as trans-shipping centers for the Pacific trade has made it imperative that the future shall be adequately safeguarded, and as one of the paramount factors in the situation, the extension of these cities in their street and harbor plans is now receiving most careful consideration by the authorities.

In Portland a civic improvement commission, under the chairmanship of Dr. T. R. Wetherbee, with Mr. Bennett, the municipal architect, as professional adviser, is hard at work studying a town plan which shall take care of the demands of a large future expansion, so far as it can be foreseen.

In both Portland and Seattle the harbor problem is the key to the transportation situation, and Seattle, under the direction of a civic improvement league with Mr. Bogue as expert, is studying the wisest expenditure of a recent bond issue of \$1,750,000 to be devoted entirely to harbor improvement, but as part of the general town plan.

This recognition, on the part of municipalities, of the wisdom of co-ordinating all civic activities and expressing such co-ordination in the town plan, is highly encouraging both as a symptom of sound growth in civic art and as an appreciation of the value of such art as a business asset, and architects will do well to prepare themselves for expert work of this sort by a careful study of what has been done in this field both at home and abroad.

A World Exhibition of Town Planning Opened in London

An exhibition in connection with the Town Planning Conference, soon to be held in London, was opened in the galleries of the Royal Academy on October 5.

The American exhibit completely fills the largest gallery and overflows into another gallery where are displayed some sixty maps and diagrams of the various improvements projected by the City of Chicago.

There are thirty-three exhibits from the Society of Architects in Washington, beginning with Peter Charles l'Enfant's rough sketch, made in 1790, and including diagrams of existing and proposed parks and parkways; elevations of the Capitol and the Washington Monument; bird's-eye views from the high stations above Arlington and typical sections of notable improvements.

New York is represented by seventeen exhibits of the Improvement Commission comprising a general map of the metropolis, a panorama of upper Manhattan and The Bronx, diagrams of the park system and waterfronts, the proposed plaza for approaches to the Brooklyn and Manhattan bridges, the subway loop terminals and other improvements.

The Boston Society of Architects have a fine display of diagrams and photographs, and there are similar contributions from Philadelphia, St. Louis, Savannah and other American cities.

The German exhibit fills seven galleries and illustrates with scientific thoroughness the methods of administration by which the rapid extension of the urban districts and the necessities for housing enormous swarms of industrial workers have been regulated.

The French exhibit includes exhibits from Nancy, Lyons, Havre, Paris and other cities, and plans of Versailles, St. Germain and parks characteristic of the landscape art of the eighteenth century.

Amsterdam, Antwerp, Louvain, Stockholm, Gothenburg, Copenhagen, Vienna, Budapest, Rome, Turin, Milan and other Continental cities are represented by drawings of street and park improvements.

The best of the British exhibits are a fine set of drawings and models of Edinburgh and plans of the garden suburbs of Letchworth, Hampstead, Ealing, Port Sunlight, Harborne, Bournville and other villages.

This exhibition may be said to thoroughly illustrate the most difficult work of municipal administration in all progressive countries where the industrial population is constantly increasing, and is a good supplement to the discussion at the approaching conference.

Sanitary Conveniences for the Tenement

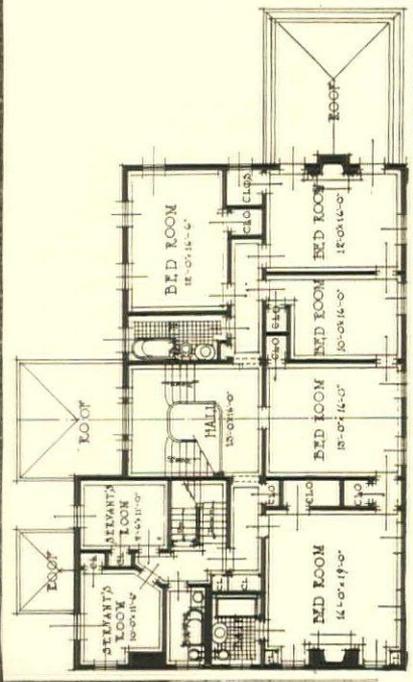
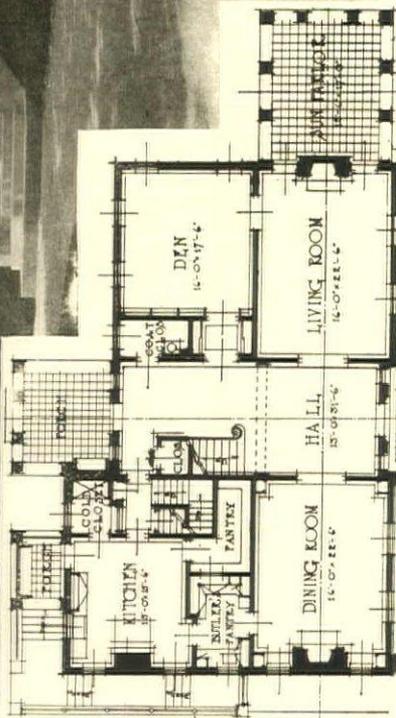
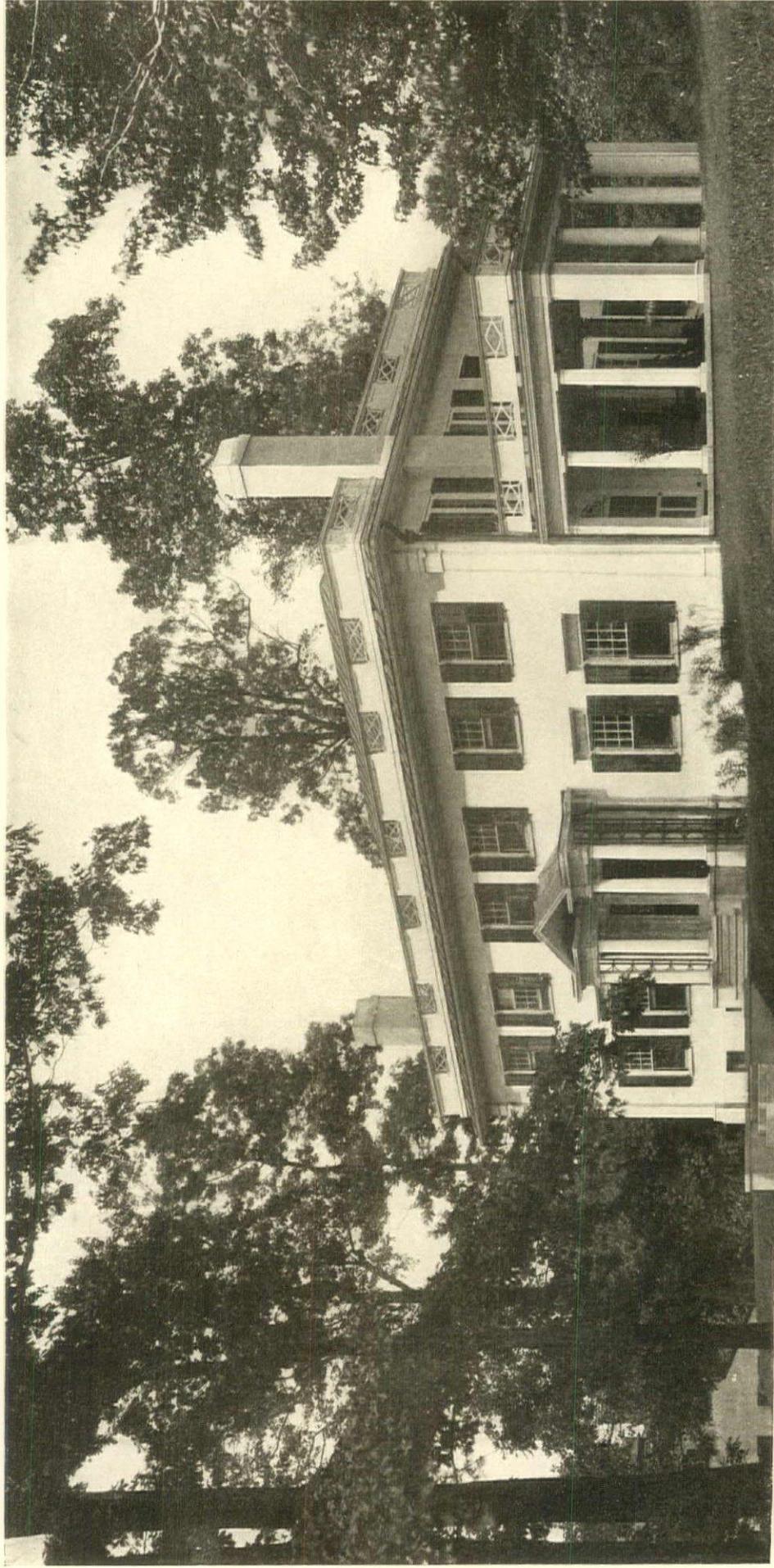
There are several inexpensive sanitary improvements which would make life in the congested districts so much more worth while living that they cannot be too strongly urged. The most important of these are a provision for cremating refuse, the proper venting of gas ranges and the elimination of wall coverings and all projecting shelves and mouldings which serve no utilitarian purpose. Since the coal range is now almost obsolete in the newer tenements the installation of a small incinerating retort heated by gas at the tenant's expense would seem a readily feasible matter mutually

advantageous to landlord and tenant alike. The building code in New York requires all gas ranges to be vented through adequate flues, but when such flues exist they are generally not connected and the heat is a source of great hardship in the thousands of small apartments where the kitchen is required to serve also as dining and living room. The far-projecting so-called "Dutch shelf" now almost universal in New York from the cheapest of the new tenements to the exclusive elevator apartment house, it has been conclusively established, is one of the most frequent causes of the spread of disease, collecting and retaining most of the dirt stirred up by dusting and sweeping. It is almost impossible to clean these shelves as the practice is general of leaving the hidden part of the shelf in the rough. While there is no objection whatever to wall coverings where there is adequate means of keeping the surroundings clean, the tenement is no place for them and the law should unequivocally say so. It would, of course, entail an increase in first cost to paint all walls in tenements, but the gain for better sanitation would be proportionate. Vacuum cleaning is becoming more common in the better class of apartments, and is accomplishing a marked advance in household hygiene which must, for the present, be obtained at a greater expenditure of labor by those whose means do not permit them to afford this convenience.



VIEW LOOKING NORTH ON BROADWAY, SHOWING THE ADVERTISING TOWER AND ITS RELATION TO THE TIMES BUILDING



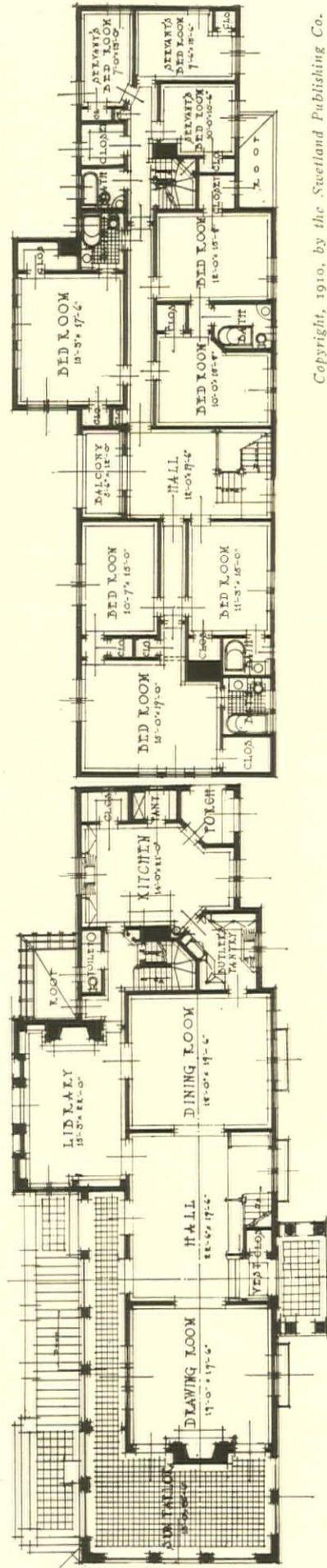
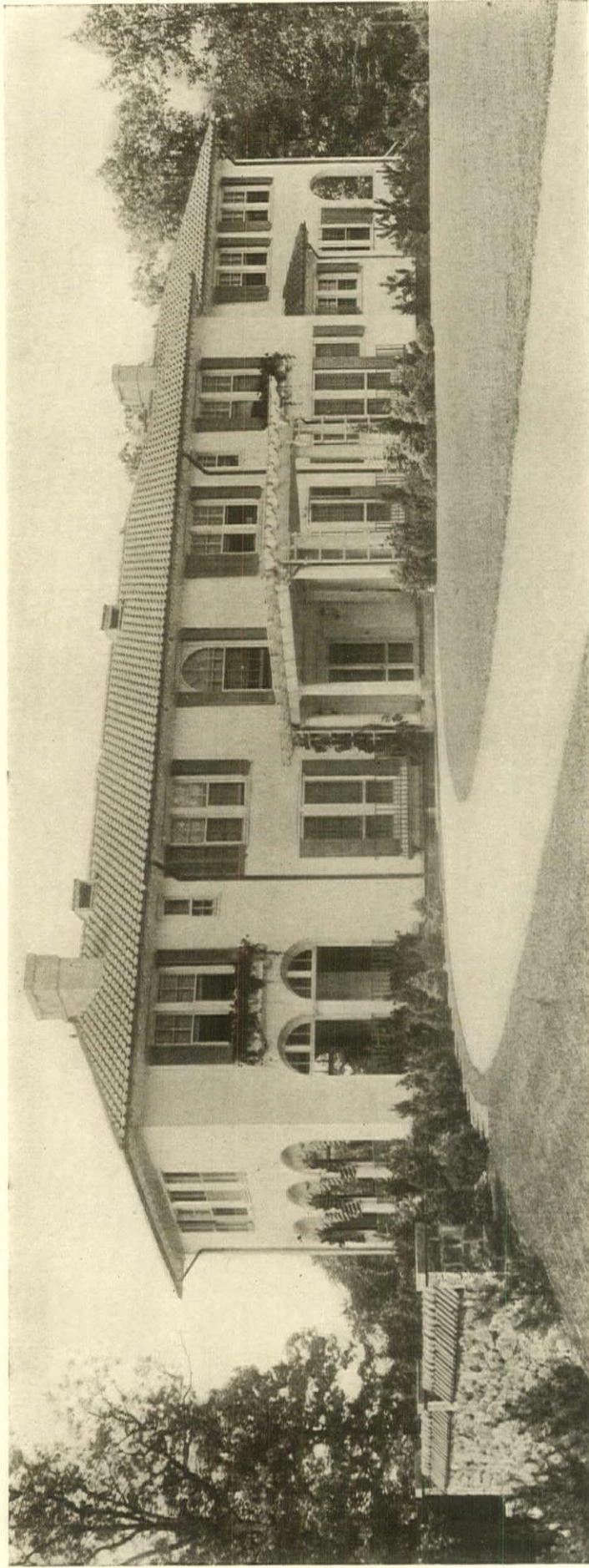


RESIDENCE OF MR. H. W. BLAKE, ENGLEWOOD, N. J.

MESSRS. DAVIS, McGRATH & KIESSLING, Architects

Copyright, 1910, by the Street and Publishing Co.





Copyright, 1910, by the Sweetland Publishing Co.

RESIDENCE OF MR. B. F. REINMUND, ENGLEWOOD, N. J.

MESSERS. DAVIS, McGRATH & KIESSLING, Architects

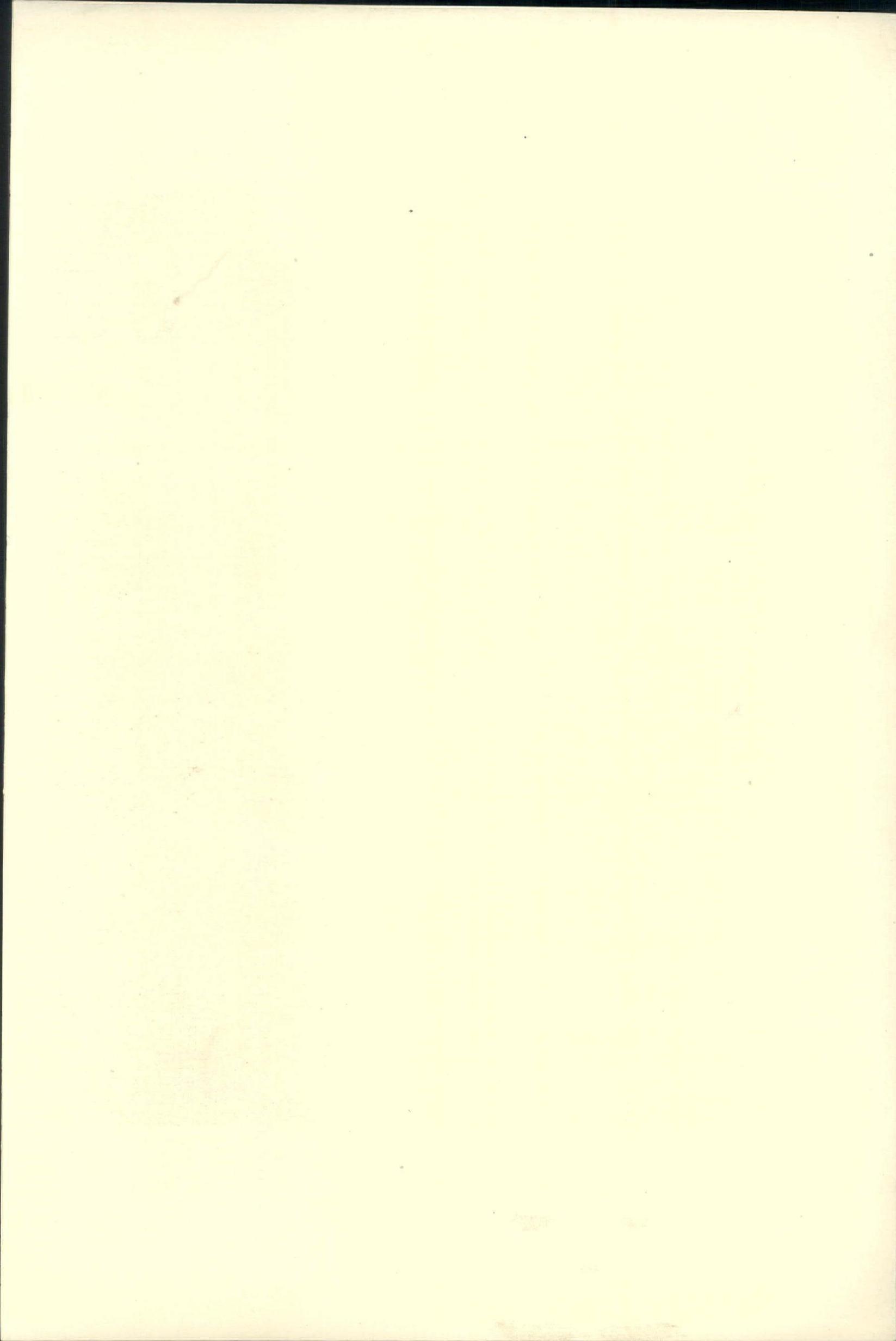


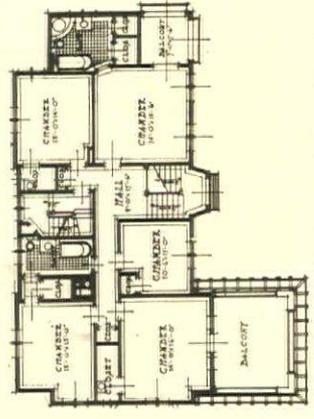
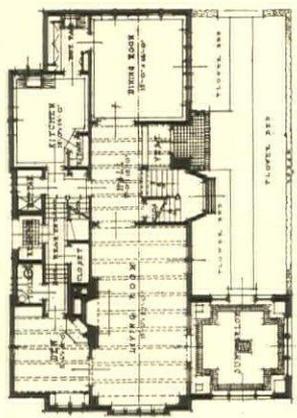


Copyright, 1910, by the Sweetland Publishing Co.

RESIDENCE OF MR. B. F. REINMUND, ENGLEWOOD, N. J.

MESSRS. DAVIS, McGRATH & KIESSLING, *Architects*

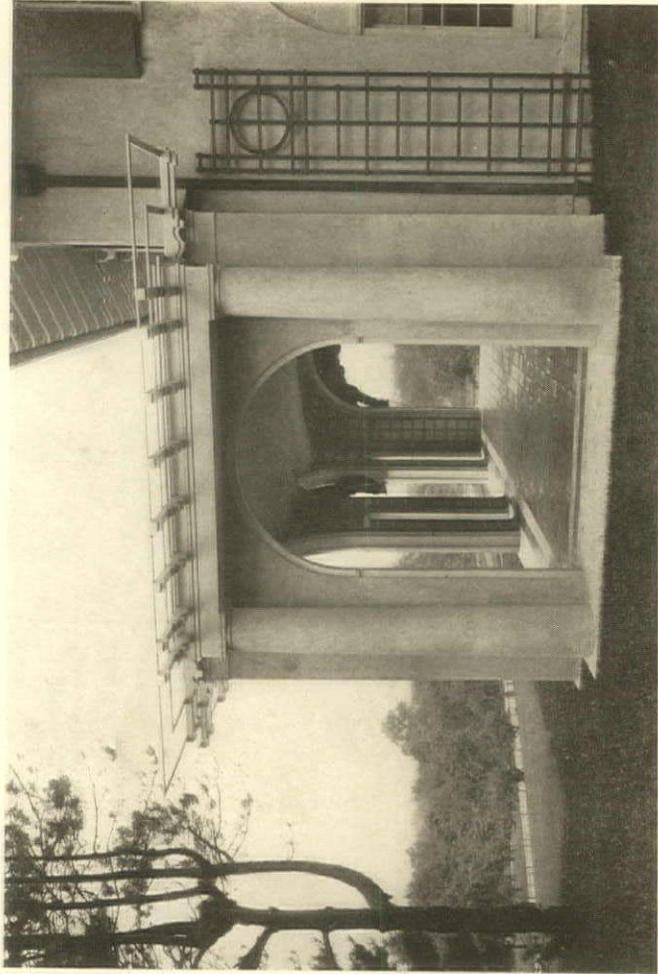




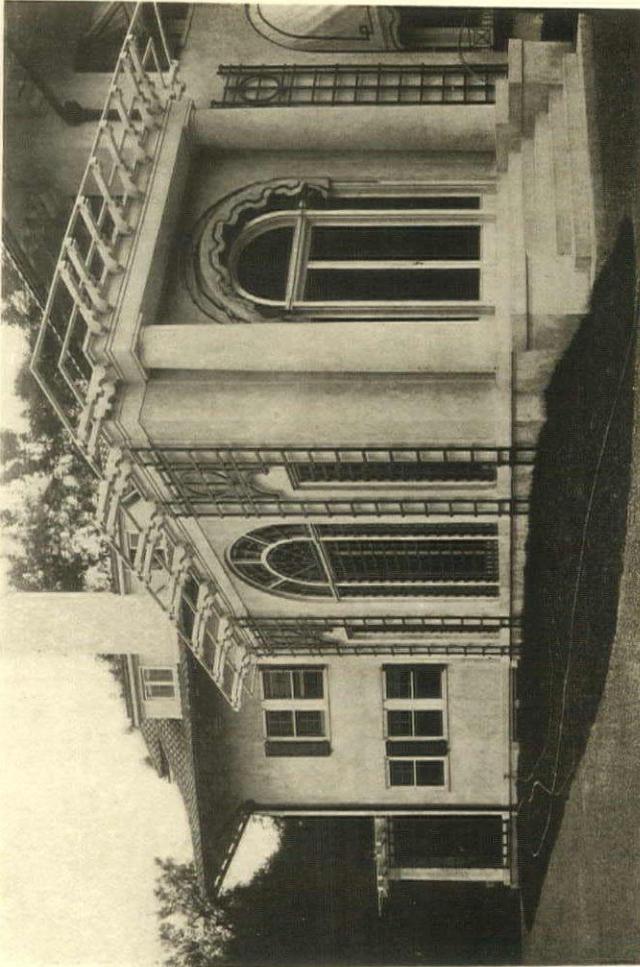
WEST FRONT

RESIDENCE OF MR. A. B. GAINES, ENGLEWOOD, N. J.

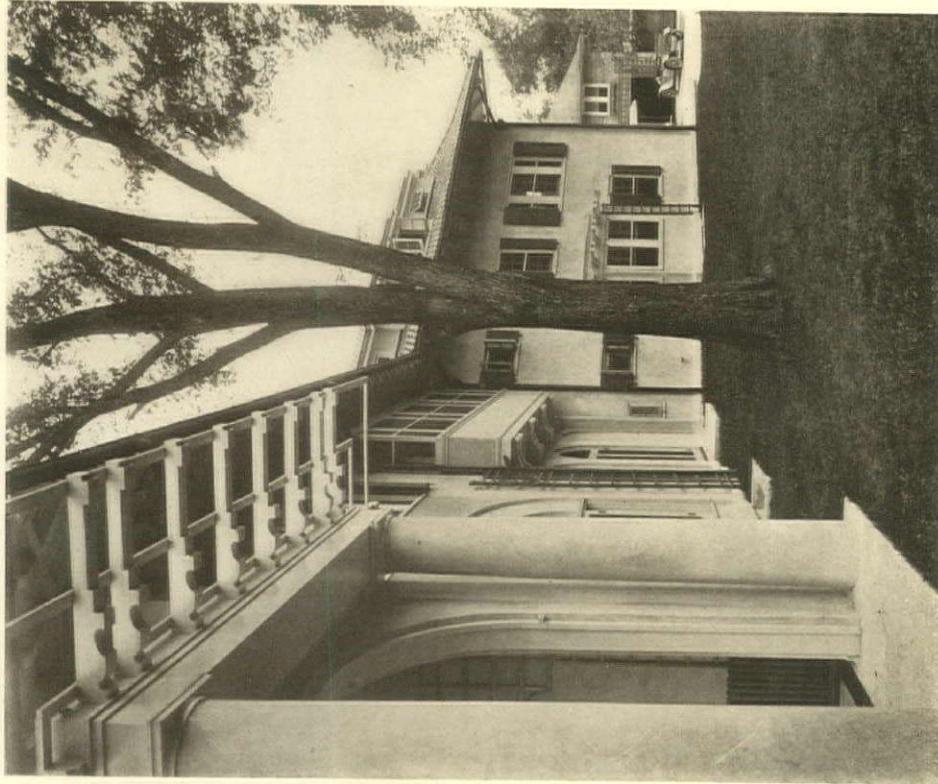
MESSRS. DAVIS, McGRATH & KIESSLING, Architects



SUN PARLOR



NORTH PORCH

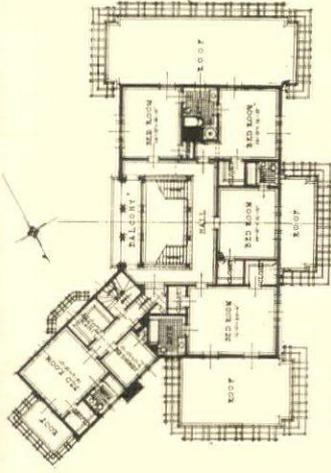
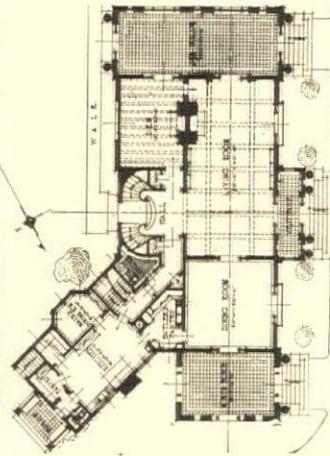
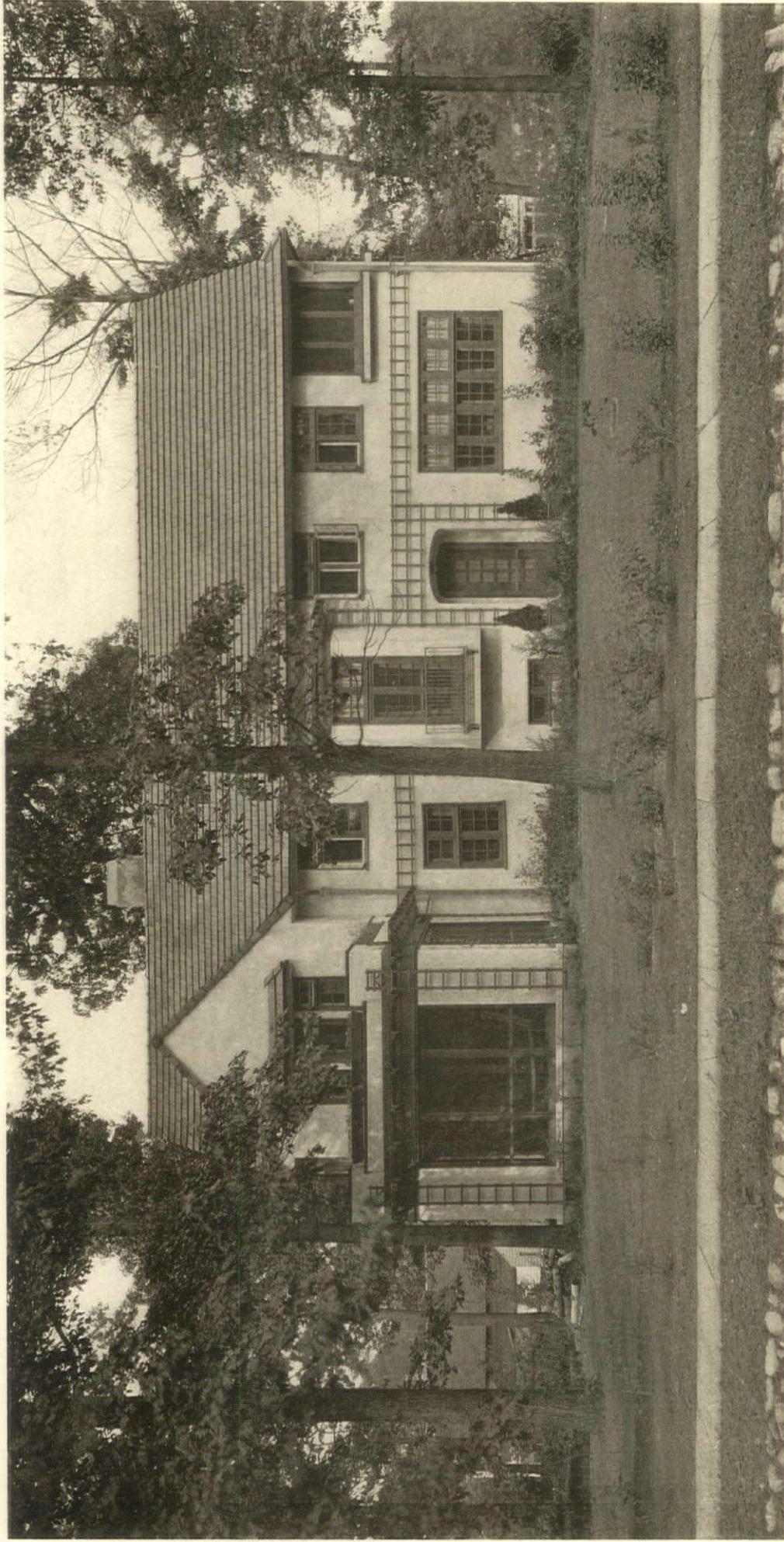


EAST SIDE

RESIDENCE OF MR. A. B. GAINES, ENGLEWOOD, N. J.

MESSRS. DAVIS, McGRATH & KIESSLING, Architects

Copyright, 1910, by the Sweetland Publishing Co.

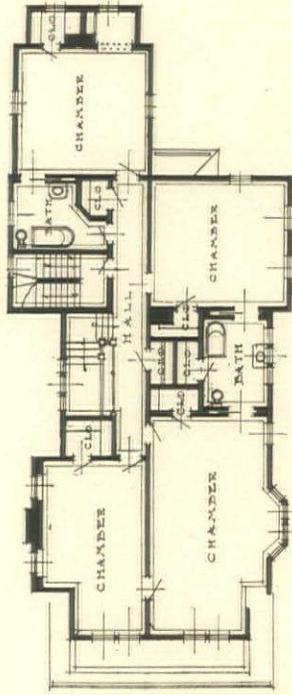
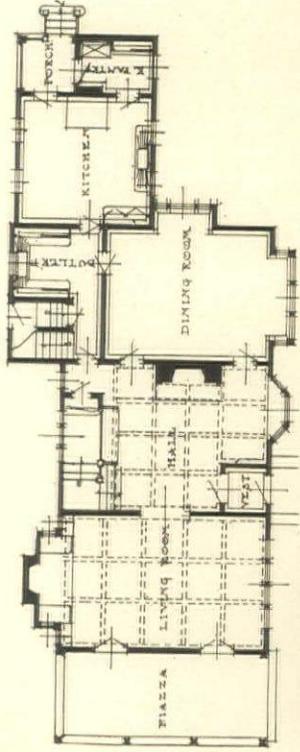


HOUSE OF MR. HERBERT E. DAVIS, GLEN RIDGE, N. J.

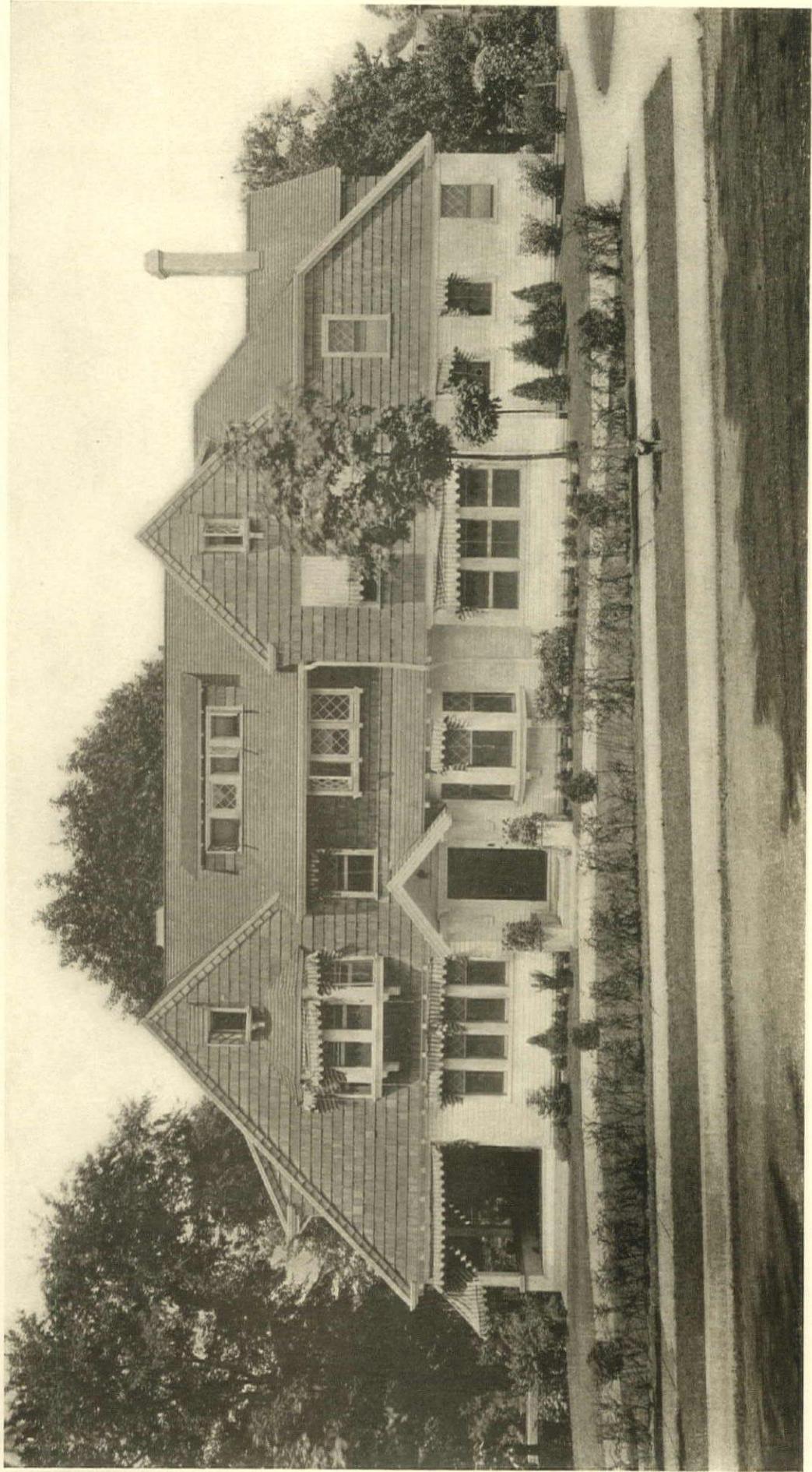
MESSRS. DAVIS, McGRATH & KIESSLING, Architects

Copyright, 1910, by the Sweetland Publishing Co.

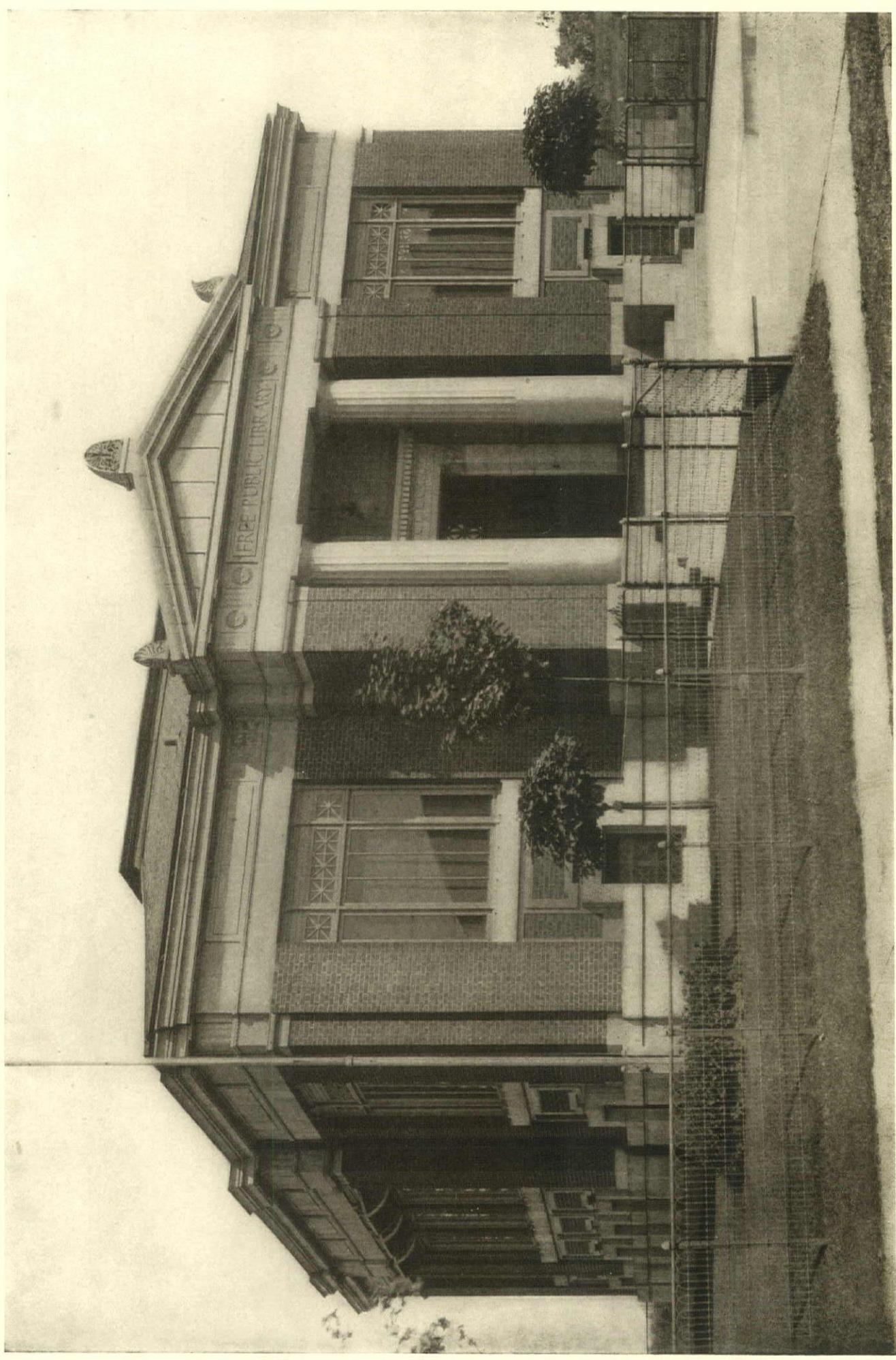




HOUSE OF MR. L. D. MOWRY,
ENGLEWOOD, N. J.
MESSRS. DAVIS, McGRATH & KISSLING,
Architects







Copyright, 1910, by the Sweetland Publishing Co.

KEARNEY PUBLIC LIBRARY, KEARNEY, N. J.
MESSRS. DAVIS, McGRATH & KIESSLING, Architects



CURRENT NEWS *and* COMMENT

A Communication

TO THE EDITOR OF THE AMERICAN ARCHITECT:

Dear Sir—I am able to make an interesting addition to the points of my article of September 28, which related to the Report of the Italian Commission on the Leaning Tower of Pisa.

An Italian translation of this article is in course of preparation, and it occurred to me that a diagram representing the difference in the results of the same plumb, as measured to level and as measured to slope, would be an interesting and useful addition to the article.

In my article in your issue of September 28 I had estimated (by compass test on the very small scale of the original DeFleury section of the Leaning Tower) that the DeFleury sixth story plumb would give a 10 cm. higher result on the measure to slope than it did on the measure to level.

In order to prepare an illustration bearing on the general principle, for use in the Italian translation, I instructed my draughtsman to make a drawing, four times enlarged, from that part of the DeFleury section which shows the ground floor of the tower, and to report to me what results would be obtained by the enlarged scale as regards the measure to slope.

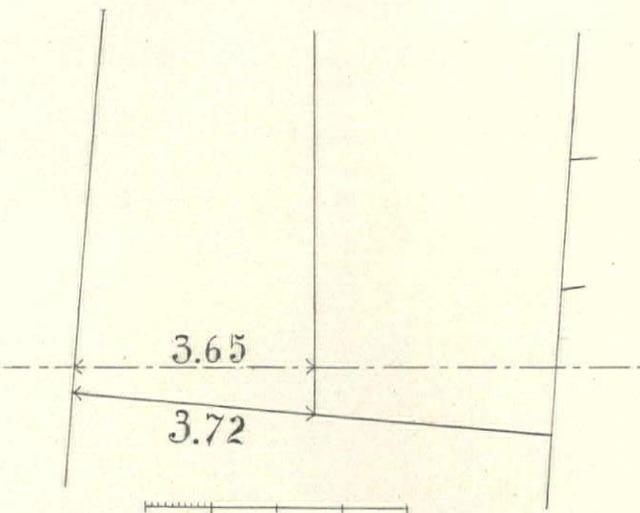


Diagram of DeFleury's sixth-story plumb in 1859, showing the difference of measures on the same plumb as taken to level and as taken to slope. (This level line in DeFleury's original survey starts from the upper step on the north side of the exterior platform and is the level which shows on the south exterior side the total dip at the base of m. 1,525.)

Please note this diagram herewith. The additional amount on the measure to slope is *not* 10 cm. It is 7 cm.

Now 7 cm. is the amount which the Commission reports that the tower has moved since the DeFleury sixth story plumb of 1859 (if this sixth story plumb can be trusted, which the Commission doubts).

If we suppose that the Commission took a plumb from the sixth story and that this plumb was measured to the surface slope, it appears likely or possible that the erroneous impression was thus derived that the tower had moved 7 cm. since the date of DeFleury's plumb. The correspondence of the figure of 7 cm., mentioned by the Commission, to the difference of 7

cm. between the two measures shown by the diagram makes this hypothesis attractive, although it obliges us to assume that the Commission overlooked the point that the difference between sixth story plumbs would not be the same as the difference between seventh story plumbs.
WM. H. GOODYEAR.

PERSONAL

The Atelier Wynkoop announce their removal to new quarters, 74 Irving Place, New York.

Frank D. Skeel, it is stated, has moved his offices to Vickers Building, on Euclid Avenue, Cleveland, O. This building is one of Mr. Skeel's recently completed works.

Messrs. George B. Post & Sons, of New York, are in consultation with President Richmond regarding changes and improvements in the buildings and grounds of Union College at Schenectady, N. Y.

Mr. Oswald C. Hering announces that he has formed a partnership with Mr. Douglass Fitch and will continue the practice of architecture, under the firm name of Oswald C. Hering & Douglass Fitch, Architects, with offices at No. 1 West 34th street, New York.

Local papers state that the firm of Hughes & Mangin, architects, Syracuse, N. Y., has been dissolved. Mr. Hughes will for the present, it is stated, retire from active practice. Mr. Mangin will continue in the former offices of the firm in the Betts block.

Mr. S. E. Desjardins, architect, informs us that he has removed his office to the Pickering building, Fifth and Main Streets, Cincinnati, Ohio. Mr. Desjardins has admitted to partnership Mr. Roland Bevis, heretofore associated with him as assistant.

NEWS OF THE CHAPTERS OF THE A.I.A.

SOUTHERN PENNSYLVANIA CHAPTER HOLDS MEETING

The Southern Pennsylvania Chapter of the American Institute of Architects held its fall meeting October 8. Owing to the unavoidable absence of President Rankin, Mr. John B. Hamme acted as president *pro tem*.

A number of interesting matters of business received consideration. One of these was to request the board of directors of the A. I. A. to allot, if the way be clear, to its jurisdiction the following additional counties of the State: Bedford, Fulton, Blair, Huntington, Mifflin, Juniata, Snyder, Union, Northumberland, Lycoming, Montour, Clinton and Centre. The counties as covered by the chapter at present are: York, Lancaster, Adams, Dauphin, Cumberland, Franklin, Lebanon and Perry. The balance of the counties are to be divided between the remaining two chapters, Philadelphia and Pittsburg.

The date of the next regular meeting of the chapter is the second Monday of December.

The official special train of the chapter to the con-

vention of the A. I. A. in San Francisco is scheduled to leave Chicago at 9:30 a. m. January 11.

MICHIGAN (DETROIT) CHAPTER.

At a business meeting of this chapter held October 11 a scholarship to the value of \$55 a year in the architectural course of the University of Michigan was voted.

By a unanimous vote the directors of the chapter were authorized to subscribe \$500 for the establishment of a school of design in Detroit.

BOOK NOTES

THE LIVERPOOL ARCHITECTURAL SKETCH BOOK. Being the Annual of the School of Architecture of the University of Liverpool. Published by the Proprietors of the *Architectural Review*. Caxton House, Westminster, London. Half-crown, net. 1910.

In those who are familiar with the admirable work being done by Professor Reilly at the University of Liverpool, and the energy with which it is prosecuted, the appearance of the architectural school annual for 1910 will excite much interest. This publication takes the form of an 80-page book somewhat larger than the *Architectural Review*, seventy-eight pages of which are devoted to illustrations. Part I is devoted to measured drawings by students of the school of such buildings as the Taylorian Institute, Oxford; St. George's Hall, Liverpool; the Custom House, Dublin; St. Mary-le-Strand, London; Palazzo Pompeii, Verona; Palazzo Pandolfini, Florence—twenty-three subjects in all. Part II is devoted exclusively to design problems given in the school. In accordance with Professor Reilly's wise policy, these problems deal chiefly with architecture done in "the grand manner," or monumental work, though "a set of twelve almshouses," "a workman's cottage" and "a hotel for a country town" give the student an opportunity to relax occasionally and express his emotions in more homely idiom.

In his lucid introduction to the book, Professor Reilly justly observes "all early teaching, to be effective, must be academic," and though a stranger may not wisely proclaim *ex cathedra* opinions about any matter abroad, we venture to believe that the School of Architecture of Liverpool University gives the best promise, of any means in sight, of rejuvenating the art architectural of England. It is true the solutions shown are not those likely to be reached by American architectural students, but there is no reason why they should be, and every consideration of wholesome development why they should not.

Church Tower Moved Intact

In the issue for September, 1910, *L'Architecture et la Construction dans le Nord* reports the moving intact of a church tower, covering a superficial area of some 1,100 feet and 150 feet high a distance of about thirty feet. The operation was made necessary by alterations and the enlargement of the building, and was performed without disturbing the continuous working of a sixteenth century clock installed in the tower. The work occupied ten days and was successfully carried out by a firm of American contractors familiar with such operations.

Problems in Town Planning

In the current issue of the London *Architectural Review* exception is taken by Mr. W. R. Davidge to some current notions regarding traffic problems and the correct placing of monumental or otherwise interesting buildings at civic centers. This paper and its illustrations deserves attention though one may not wholly agree with the author's conclusions.

D. H. Burnham on Town Planning Conference

In an interview with Mr. D. H. Burnham, of Chicago, printed in a London daily paper, he is reported as being most enthusiastic as to good that will be accomplished by the Town Planning Conference, just closed in London.

We read: "It is the greatest thing of the sort ever held," said Mr. Burnham. "There were present many great authorities on town planning, and the subject has been thrashed out thoroughly. The conference had the benefit of having various town planning schemes illustrated by drawings, which made their meaning quite clear. Germany was represented by drawings of a dozen of her greater cities, while America showed plans for the future development of Washington and Chicago, which plans have taken about four years to work out."

Mr. Burnham acted as presiding officer on one day of the Conference and during the session read a paper on "The Development of the Cities of the Future."

Competition for Albany. (N. Y.) High School Decided

The first prize in the competition for a high school at Albany, New York, has been awarded to Goldwin, Starrett & Van Vleck, with Orrin Winthrop Rice as associate. Second prize, Edward Sheppard Hewitt and Frederick G. Frost, of New York; third prize, Louis Boynton, New York. The architects' estimate of cost of building is \$300,000.

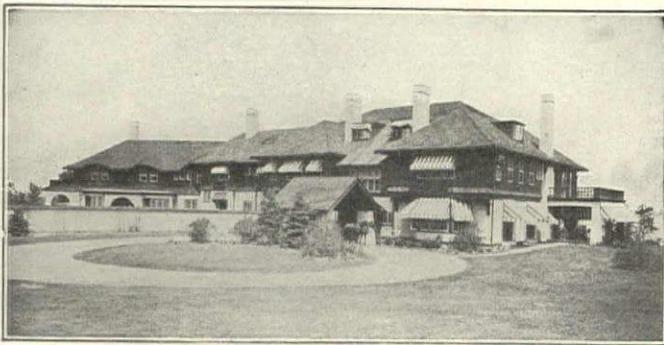
The successful design was selected by the city officials, with Mr. Franklin B. Ware, state architect, acting as professional adviser.

A Scholarship in Architecture

A scholarship valued at \$1,000 per year for advanced work in architecture has been made available to the Trustees of the University of Illinois by Mr. Francis John Plym, of Niles, Michigan. The conditions under which this scholarship is to be bestowed will be determined by the Trustees. For the present it is understood that it will be given each year to a graduate of the Department of Architecture for the purpose of foreign study and travel.

An American Sculptor Dead

Larkin Goldsmith Mead, an American sculptor and brother-in-law of William Dean Howells, died in Florence, Italy, on October 15. His more prominent works in this country are the national Lincoln monument at Springfield, Ill., the soldiers' monument at St. Johnsbury, Vt., and the statues of Ethan Allen in the National Art Gallery, Washington, and in the State Capitol at Montpelier, Vt.



RESIDENCE OF THE LATE A. J. CASSATT, BAR HARBOR.
Stained with Cabot's Shingle Stains. Chapman & Fraser, Arch'ts, Boston.

Cabot's Shingle Stains

The Standard for
Twenty-five Years

SAMUEL CABOT, Inc.

Manufacturing Chemists BOSTON, MASS.
1133 Broadway, New York 350 Dearborn Ave., Chicago

Cabot's Sheathing and Deafening Quilt, Waterproof Cement
Stains, Waterproof Brick Stains, Conservo
Wood Preservative.



Jenkins Bros. Radiator Valves

are made of the very best grade of new steam metal, and are the heaviest, strongest and most durable on the market. Architects specifying them secure for their clients valves which are *guaranteed* to give entire satisfaction.

JENKINS BROS., New York, Boston, Philadelphia, Chicago

Twin-Light Reflectors

Made by "FRINK" are superior to any others on the market. Those who have windows to light should certainly get full information regarding these fixtures. Correspondence invited. : : :

I. P. FRINK, 551 Pearl Street, NEW YORK

ASPHALT FLOORS, ROOFS, SIDEWALK and CARRIAGE WAYS

of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc., laid with
VAL de TRAVERS ROCK ASPHALT

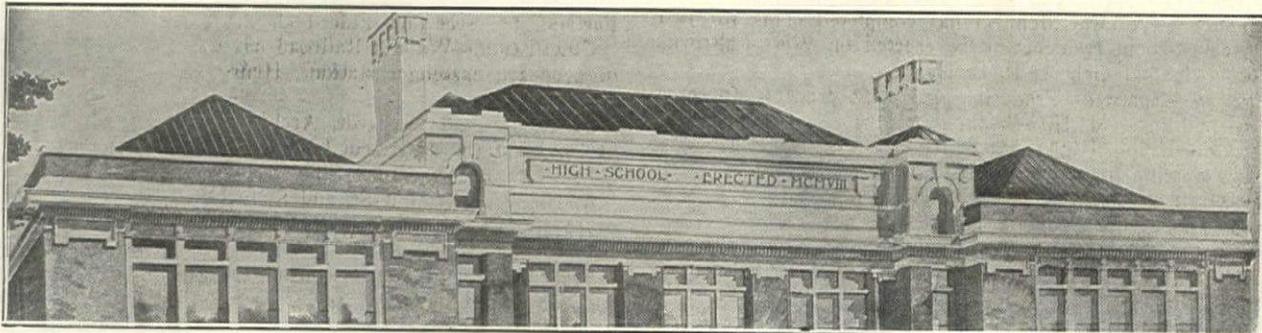
Durable, Fireproof and Impervious. For estimates and list of works executed, apply to

The Neuchatel Asphalt Co., Limited, 265 Broadway, New York

DIXON'S PAINT Does One Thing

and it does that one thing well—it protects. Silica-graphite pigment and pure linseed oil vehicle is the secret of its success.

Booklet 14-B Free. Joseph Dixon Crucible Co. JERSEY CITY, N. J.



IT STANDS FOR **GREATEST** PROTECTION ON PUBLIC BUILDINGS— REAL ROOF INSURANCE!

Weather isn't the only thing to be taken into consideration when the Roofing decision is being made. How about protection against fire? Fire statistics show that nearly half the fires start from the roof, from chimney sparks or from embers from neighboring conflagrations. With

Scott's Extra Coated Roofing Tin

on the roof there's not a chance in a thousand of the fire starting;—the embers simply can't burn through! It is wonderful protection where fires start *inside*, too, not alone acting as a barrier to the flames, but saving further destruction because it doesn't collapse. Every way you figure it, Tin is the BEST roofing for all purposes, and SCOTT'S EXTRA COATED is the BEST TIN. Made by improved American methods; hammered Open Hearth Base with rich, heavy coating.

The way to be fair to yourself and fair to Scott's Extra Coated is to send for "Tin Truth" before you specify. Free on request.

FOLLANSBEE BROTHERS CO., PITTSBURG, PA.

Only Manufacturers Hammered Open Hearth Roofing Tin in America

BUILDING NEWS

To be of value this matter must be printed in the number immediately following its receipt, which makes it impossible for us to verify it all. Our sources of information are believed to be reliable, but we cannot guarantee the correctness of all items. Parties in charge of proposed work are requested to send us information concerning it as early as possible; also corrections of any errors discovered.

ALABAMA

DADEVILLE.—Methodist Congregation has decided to erect edifice.

MOBILE.—Bids will be received until noon, Nov. 1, for erection of two-story brick business building at Royal and St. Anthony Sts. for W. D. Bellingrath. Stone Bros., 109 Lowenstein Bldg., architects.

MONTGOMERY.—Mayor Wm. A. Gunter, Jr., has recommended erection of fire station in southern part of city.

ARKANSAS

HELENA.—First Methodist Church is considering erection of \$50,000 edifice.

HOT SPRINGS.—H. H. Richards, 134 Van Buren St., Chicago, is preparing plans for erection of six-story hotel building for Chas. M. Rix.

CALIFORNIA

CORONADO CITY.—John B. Lyman, Jr., San Diego, is preparing plans for erection of bank building at Orange Ave. and Park Ave. for Bank of Commerce & Trust Co.

HUNTINGTON BEACH.—Holly Sugar Co., Colorado, will erect plant near this city. W. M. Wiley, President.

LOS ANGELES.—Plans for \$30,000 apartment house to be erected at Sunset boulevard and Banker Hill St. for the American Finance & Realty Co. have been prepared by the Architectural Designing Co.

LOS ANGELES.—Santa Fe Springs Hotel & Sanitarium Co., Dr. C. Stuart Hutchinson, President, is planning to expend \$150,000 in improvements, including erection of hotel.

OAKLAND.—Plans for buildings to be erected at County Infirmary for care of tubercular patients have been amended by Board of Supervisors so as to come within the appropriation allowed, \$13,500. F. S. Voorhees, Architect.

PASADENA.—A local architect has completed plans for two-story, seven-room residence to be erected on West California St. for Brigadier General D. P. Heap.

POMONA.—Board of Trade has had plans prepared for erection of building. M. H. Wilson, President.

REDDING.—Union High School District will at once choose site for erection of proposed high school.

SACRAMENTO.—Farmers & Mechanics Savings Bank will erect \$175,000 5-story bank and office building on Eighth St. C. T. Gaiser, Architect.

Gearanty Title & Trust Co. will erect \$250,000 building at Seventh and J Sts.

SACRAMENTO.—Bids will be received Dec. 5 for erection of proposed court house after revised plans.

SAN DIEGO.—Citizens will vote Dec. 9 on proposition to build \$200,000 polytechnic high school.

SAN FRANCISCO.—W. G. Hind, Humboldt Bank Bldg., has prepared plans for erection of \$40,000 apartment house; steel contract let. Architect C. O. Clausen has prepared plans for erection of apartment house for M. C. Shaw on Washington St.

CONNECTICUT

BRIDGEPORT.—Marsh Bros. Co. has had plans prepared for erection of residence on William St.

Plans have been prepared by Architect W. J. Skinner for immediate erection of two residences in Derby for Mrs. E. E. Adams.

MANCHESTER.—Hartwell, Richardson & Driver, 62 Devonshire St., Boston, have finished revised plans for school building to be erected at the center and bids will be asked at once.

NEW HAVEN.—Architects Allen and Williams, 82 Church St., have prepared plans for erection of four-story \$30,000 building to be erected for Gately & Brennan.

NEW HAVEN.—Congregation Bnai Jacob is having plans prepared for erection of \$30,000 synagogue at 345 George St.

WATERBURY.—Site on Robbins St., Mt. Pleasant Park, has been purchased by Rt. Rev. Bishop J. J. Nilan for erection of Catholic church.

DELAWARE

WILMINGTON.—General Pulaski Club has had plans prepared for erection of \$23,000 clubhouse at Second and Justison Sts.

DISTRICT OF COLUMBIA

WASHINGTON.—Professor W. S. Small, Principal of Eastern High School, is urging \$150,000 appropriation for purchase of site for erection of high school.

FLORIDA

SANFORD.—Virginia-Carolina Chemical Co. will at once erect plant on First St.

WEST PALM BEACH.—Dramatic Stock Co. will erect theater on Clematis Ave. Judge W. I. Metcalf is interested.

GEORGIA

ATLANTA.—Atlantic Ice & Coal Corporation has decided to appropriate \$350,000 with which to build additional ice manufacturing and storage plants in Atlanta and additions on plants in Georgia and Florida. Ernest Woodruff, President.

ATLANTA.—Trustees of Grady Hospital will at once ask for bids for erection of proposed \$100,000 building.

BEACH.—Methodist Congregation is considering erection of edifice.

CRAWFORD.—City will, on Nov. 1, sell \$5,000 school bonds. R. S. McMahan, Clerk Council.

IDAHO

COEUR D'ALENE.—Coeur D'Alene College, Rev. B. Westerland, President, is having plans prepared for erection of gymnasium.

ILLINOIS

CARROLLTON.—Bids will be received until 2 p. m. Nov. 11 for erection of brick building and frame dwelling. Leroy McFarland, Jr., Secretary Eldred Drainage District.

CHAMPAIGN.—Wabash Railroad has selected site for erection of proposed passenger station. Henry Miller, St. Louis, Mo., General Manager.

CHICAGO.—Paul Gerhardt, Architect, Schiller Bldg., is preparing plans for apartment building to be erected for Gustave H. Poetsch at 4737 Dover St. Cost, \$112,200.

Site at W. Fifteenth St. and S. Fiftieth Ave. has been purchased by Catholic Bishop of Chicago for erection of Lithuanian church and school.

Frederick B. Skillman is considering erection of eight-story, \$250,000 hotel building at 228 S. Halsted St.

Trustees of the Central Manufacturing District are about to erect for J. L. Metz Furniture Co. six-story, \$90,000 building. Alfred S. Alschuler, Fort Dearborn Bldg., Architect.

OTTAWA.—Pleasant View Luther College Association has decided to erect a new ladies' dormitory, at cost of \$35,000.

ROCK ISLAND.—Bids will be received until Nov. 23 for erection of proposed post-office. James Knox Taylor, Washington, D. C., Supervising Architect, Treasury Department.

INDIANA

BRAZIL.—M. Johnson has completed plans for erection of apartment house for Chas. Minshall, Terre Haute. Bids will soon be asked.

EVANSVILLE.—J. H. Deakin will erect three-story apartment house on Chestnut St. Frank Ingle, Architect.

INDIANAPOLIS.—Eli Lilly & Co. will erect administration building on Alabama St.

INDIANAPOLIS.—Knights of Columbus order has decided to erect, at a cost of \$30,000, addition to building in North Illinois St.

Plans are being prepared for Mrs. Hannah Mansur and Mrs. Mary E. Hume for erection of building on East Ohio St.

INDIANA HARBOR.—Methodist church is considering erection of \$50,000 edifice.

MARION.—Site will be purchased for erection of annex to Y. M. C. A. building.

NEW YORK BELTING & PACKING CO. LTD

ORIGINAL MANUFACTURERS

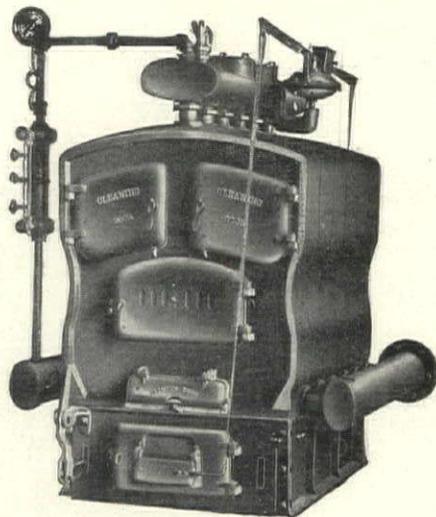
INTERLOCKING RUBBER TILING.

IT IS THE BEST FLOOR MADE
FOR CHURCHES, SCHOOLS, BANKS, PUBLIC BUILDINGS,
THEATRES AND PRIVATE RESIDENCES, BEING SANITARY,
NON-SLIPPERY, SOFT AND COMFORTABLE TO THE TREAD,
BEAUTIFUL IN COLORS AND DESIGNS AND DURABLE.

NEW YORK, N.Y. 91-93 CHAMBERS ST. INDIANAPOLIS, IND. 229 SO. MERIDIAN ST. CHICAGO, ILL. 150 LAKE ST. ST. LOUIS, MO. 218-220 CHESTNUT ST. PHILADELPHIA, PA. 118-120 NORTH 8TH ST. SAN FRANCISCO, CAL. E. 11TH ST. & 3RD AVE. OAKLAND.	BOSTON, MASS. 232 SUMMER ST. PORTLAND, ORE. 40 FIRST ST. PITTSBURGH, PA. 913-915 LIBERTY AVE. SPOKANE, WASH. 163 S. LINCOLN ST. LONDON W.C. ENGLAND 11 SOUTHAMPTON ROW
---	--

The "Pierce" Sectional Boilers

will give your clients that satisfaction that you will never have cause to regret specifying and demanding the "Pierce" Boiler. It is made in a great variety of sizes, is of a new design, has large doors and is built on the header construction.



Showing No. S 326 Boiler

Our Catalogue, sent on request, will give description, measurements and capacities.

PIERCE, BUTLER & PIERCE MFG. CO., Syracuse, N. Y.

NEW YORK CITY
Cor. 4th Ave. and 22d Street

BOSTON
61 High Street

PHILADELPHIA
936 Arch Street

MISHAWAKA.—Edward and Charles Mills are considering erection of business block on E. Second St.

MISHAWAKA.—Church to cost from \$75,000 to \$100,000 will be erected by E. G. Eberhart and others and presented to Methodists.

PORTLAND.—Rev. Earl Dunbar, Portland Methodist Church, is interested in proposed erection of \$5,000 edifice at Union.

SANDBORN.—Christian Church is considering erection of \$12,000 edifice. Nelson Carroll, Chairman Building Committee.

TERRE HAUTE.—Plans have been completed for erection of a second high school.

VINCENNES.—United Brethren Congregation is considering erection of edifice.

IOWA

CEDAR RAPIDS.—First Church of Christ, Scientist, will erect proposed edifice on Second Ave.

DES MOINES.—F. M. Hubbel is considering erection of \$500,000 hotel on river front.

DES MOINES.—D. S. Chamberlain is considering erection of hotel at Twelfth and Grand Sts.

LORIMOR.—Bids will be received until 8 p. m., October 31, for erection of town hall. H. L. Albert, Town Clerk.

SIoux CITY.—Clerics of St. Viateur will erect boy's school at cost of \$100,000. Very Rev. Fr. Charlebois of Chicago, is interested.

KANSAS

KANSAS CITY.—City Commissioners have approved plans for \$200,000 city hall and public auditorium which city is to build on North Sixth St.; bids will be opened Nov. 1.

Chicago, Rock Island & Pacific Railway Co. will build a \$50,000 freight house at Third St. and Berger Ave.

NEWTON.—Board of Education is considering erection of \$75,000 school.

SILVERLAKE.—Architect F. E. Squires, 628 Kansas Ave., Topeka, has prepared plans for erection of \$10,000 school.

TOPEKA.—Architect N. P. Nielson, 48 Crawford St., has prepared plans for erection of number of schools.

KENTUCKY

CADIZ.—Plans will be received until Jan. 1 for erection of \$25,000 school. B. T. White, Secretary School Board.

LExINGTON.—School Board has selected architects to prepare plans for proposed West End School.

LOUISVILLE.—Hugh L. Nevin has about perfected plans for erection of \$75,000 apartment house at Fourth Ave. and Oak St.

Architects Joseph & Joseph, Commercial Bldg., will take bids for erection of theatre at Eighteenth St. and Broadway.

Citizens National Life Insurance Co. will erect \$70,000 home in downtown district.

SHELBYVILLE.—J. C. Bayne, Bagdad, will erect residence on Main St.

LOUISIANA

ELTON.—Calcasieu Parish School Board will soon let contract for erection of school. W. Krielow, Jennings, Architect. John McNeese, Lake Charles, Parish Superintendent.

NEW ORLEANS.—Bids will be received about Nov. 1 by administration of Isaac Delay's Museum of Arts, 518 Iberville St., for erection of proposed \$135,000 art building. Leidenbaum & Marx, Chicago, Ill., Architects.

MAINE

BANGOR.—Jas. S. Howe, Jr., is considering erection of four-story brick building on Harlow St.

GREENVILLE JUNCTION.—State Y. M. C. A. will erect \$25,000 railroad Y. M. C. A. building. J. C. Smith, Waterville, Chairman.

MARYLAND

BALTIMORE.—Wm. H. Ponder will erect residence at Ten Hills. Glidden & Fritz, architects.

Jas W. Amos will erect seven two-story brick dwellings, cost \$12,000, on Edmondson Ave. J. F. Gerwig, 210 E. Lexington St., architect.

BALTIMORE.—Plans have been completed by Jacob F. Gerwig, 210 E. Lexington St., architect, for twelve two-story brick dwellings, to be erected on Chelsea Ave. for A. Warren Edwards; cost about \$30,000.

Glidden & Friz are preparing plans for another residence to be erected at Ten Hills for L. D. Davis. Cost about \$8,000.

George M. Mackenzie, architect, Govans Bldg., is drawing plans for \$10,000 Sunday School room to be erected in connection with the Govans Methodist Episcopal Church.

BALTIMORE.—The H. H. Babcock Company, Fayette and Hanover Sts., is planning to build a new building uptown.

Becker Brothers & Son will start work soon on \$100,000 building to replace one at Lexington and Frederick Sts. Theodore Wells Pietsch, Architect.

James M. Amos will build seven two-story brick dwellings on Edmondson Ave., to cost about \$12,000. Jacob F. Gerwig, 210 E. Lexington St., Architect.

BALTIMORE.—Proposed Lutheran church will be erected at Garrison and Bateman Aves. Rev. Dr. H. W. Hartman, Highland Ave., Walbrook, is interested.

Zion Church has had plans prepared for erection of parish house at Lexington and Holliday Sts.

Council is considering \$15,000 appropriation for erection of detention hospital.

BALTIMORE.—Carl R. McKendrick will erect residence at Ruxton.

W. Elbert Sexton has had plans prepared by Mottu & White, Professional Bldg., Architects, for a residence to be erected at Roland Park; bids now being received.

Archer & Allen, Architects, Central Savings Bank Bldg., have completed plans for \$25,000 public comfort station to be erected at Harford and Greenmount Aves.

MASSACHUSETTS

BOSTON.—Mayor Fitzgerald has recommended purchase of site in the Fenway for erection of proposed High School of Commerce.

HAVERHILL.—Lithuanian parish will erect edifice at River St. and Woodmont Ave.

HOLYOKE.—Dr. G. C. Robert is planning to erect 26-apartment block at Cabot and Chestnut Sts.

Architect Oscar Beauchemin has prepared plans for erection of residence for Jos. Boyer.

A. J. McDonald will soon begin erection of three-apartment block.

REVERE.—Bids will be received until 8 p. m., November 2, for erection of school on Malden St. T. W. Gillette, Secretary Special Committee.

MICHIGAN

DETROIT.—Baxter & O'Dell, Hammond Bldg., are designing a four-story 32-apartment building to be erected on Center St. for H. C. Hodges; also two-family flat on Hancock St. for Arthur Schlesinger.

LANSING.—Free Methodists will erect edifice on Madison St. Rev. A. E. Warren, Pastor.

MAPLE RAPIDS.—Fisher Bros., Beaudette Bldg., Pontiac, are preparing plans for school. O. M. Snyder, Secretary, Board of Education.

MONROE.—Council has appointed committee to view building sites with idea of erecting city hospital.

MINNESOTA

AURORA.—School District No. 13 will vote on \$45,000 bonds to erect proposed high school; also school at Knox and Adriatic mines.

BAUDETTE.—Town destroyed by fire will be rebuilt; school house to be erected at once.

CHISHOLM.—Architect Edward Sarvari, Virginia, has been selected by Finnish people of this village to design new hall that will be erected at a cost of \$15,000; work on excavating begun.

EVELETH.—School Board is considering erection of \$60,000 primary school in Adams District.

LAUREL.—First Methodist Church is receiving bids for erection of \$25,000 edifice.

ST. PAUL.—Plans have been drawn by Architect A. H. Wheeler, Globe Bldg., for \$5,500 residence to be erected on corner of Portland Ave. and Pierce St. for J. W. Martin.

John M. Carlson, 227 W. Fifth St., will build on Dayton Ave. a 2-story brick duplex residence.

ST. PAUL.—Orthodox Jewish Congregation of Hill District is considering erection of temple. Jos. Levy is interested.

INTERLOCKING RUBBER TILING



3/8 TYPE

Send for our New Illustrated CATALOGUE and SAMPLES.



Administration Building, Burroughs Adding Machine Co., Detroit

Albert Kahn, Architect

THE GOODYEAR TIRE AND RUBBER COMPANY

Headquarters Tiling Department, 1914 Broadway, New York City

Factory and Executive Offices, Akron, Ohio

ORNAMENTAL IRON AND BRONZE



BRONZE ENTRANCE DOORS POSTAL TELEGRAPH BLDG., SAN FRANCISCO.
Lewis P. Hobart, Architect.

BRONZE
MEMORIAL
TABLETS

FIREPROOF
STAIRWAYS

THE WINSLOW BROS. CO.

NEW YORK — CHICAGO — LOS ANGELES

AGENCIES IN ALL PRINCIPAL CITIES

ST. PAUL.—The Low German Society is looking for site for erection of a \$100,000 clubhouse after old-fashioned German plan. L. F. Schultz, Chairman, Site Committee.

ST. PAUL.—Watson P. Davidson, Pioneer Press Bldg., will erect at 413-417 Sibley St. a three-story, \$35,000 brick building.

J. W. Lusk, President, National German American Bank, will erect residence on Summit Ave.

L. A. Plaster, 74 West Summit Ave., will erect on Summit Ave. a \$10,000, three-story brick apartment building.

St. Bernard's Catholic Church will erect \$17,000 Sisters' Home on Rose St.; work on foundation begun. Plans being drawn by Architect John E. Fisher.

MISSISSIPPI

BILOXI.—Board of Trustees of Seashore Camp Grounds has decided that plans and specifications be made for tabernacle and school building, and that bids be advertised for construction of buildings.

JACKSON.—Buildings will be received until Nov. 3 for erection of dormitory and dining hall at Mississippi Industrial Institute. R. H. Hunt, News Bldg., Chattanooga, Tenn., architect. J. S. Sexton, President, Board of Trustees.

MISSOURI

KANSAS CITY.—Chittenden-Eastman Furniture Co., Burlington, Ia., will erect factory in this city.

MOBERLY.—Architect U. S. A. Houk has prepared plans for erection of \$8,000 store building.

ST. LOUIS.—Board of Education is considering erection of \$200,000 school at Gano Ave. and Enly St.

ST. LOUIS.—Crane Co. is considering erection of \$250,000 warehouse at Eleventh and Gratiot Sts.

ST. LOUIS.—Architect P. J. Broadstreet, Leggett Bldg., is preparing plans for \$8,000 residence to be erected on Parkview Place.

Architects Duggan & Huff, Century Bldg., are preparing plans for \$15,000 theatre building to be erected on Jefferson Ave.

MONTANA

BILLINGS.—Chamber of Commerce is interested in proposed erection of auditorium.

NEBRASKA

BLOOMINGTON.—County will vote on tax levy for erection of court house.

OMAHA.—Farmers' Co-operative Creamery Co. will erect factory.

Plans for a new depot, which will be erected at Forty-fourth and Q Sts., have been submitted by the Burlington for the inspection of city officials.

RUSHVILLE.—County will vote November 8 on \$10,000 bonds for county jail and sheriff's residence.

NEW HAMPSHIRE

EXETER.—Phillips-Exeter Academy is considering erection of library and dormitory.

NEW JERSEY

ATLANTIC CITY.—Chas. B. Prettyman, Philadelphia, Pa., will erect eight-story brick and stone hotel on Pacific and Maine Aves., to cost \$100,000, also six-story addition to the Hotel Merion.

BRIDGETON.—Commercial League is interested in proposed establishment of plant for making steel castings: ten buildings will be erected.

ELIZABETH.—Committee on new high school has asked Board permission to select its own architect, who will draw plans and have charge of the work erecting proposed building.

Bids will be received until Nov. 1 for erection of brick barn at Almshouse. Oaklev & Sons, 280 N. Broad St., Architects. Geo. H. Schlotterer, Chairman Committee on Public Buildings.

HACKENSACK.—Citizens have defeated proposition to erect high school; vote will now be taken on erection of grammar school.

JERSEY CITY.—David J. Murphy will erect two eight-family dwellings, cost \$36,000, on Monticello Ave. Hymen Rosensohn, 745 Broad St., Newark, Architect.

JERSEY CITY.—Plans are being prepared by Architect Frederick Hensel for Hudson County Consumers Brewing Co. for erection of \$8,000 garage.

JERSEY CITY.—Bids will be received Nov. 22 for erection of proposed Technical and Industrial High School at Newark and Palisade Aves.

LINDEN.—Board of Education has decided to submit plans and specifications to building architect, Louis Quien, of Elizabeth, so that they might be rearranged to permit of bids within the specified amount of \$84,000.

LONG BRANCH.—The Keansburg Yacht Club will erect clubhouse early next spring. W. S. Bailey, Commodore.

MONTCLAIR.—Erection of \$200,000 addition to high school and two school buildings is being considered.

NEWARK.—Wm. H. Frey will erect three-story frame flat, cost \$35,000, to be erected at 697 S. Twentieth St. Wm. K. Schoenig & Sons, 418 Springfield Ave., Architects.

NEWARK.—Bids will be received until 3:15 p. m., Nov. 9, for erection of Montgomery School. R. D. Argue, Secretary, Board of Education.

NEWARK.—Architect Alfred Walters, 45 Clinton St., has completed plans for erection of number of buildings.

Rizzolo & Gonnelli, 800 Broad St., have drawn plans of a four-story apartment house, sixteen apartments, costing \$12,000, which Michael Perrotty will build at 54 Madison St.

PRINCETON.—Revised plans are being prepared by Renwick, Aspinwall and Tucker, 320 Fifth Ave., New York City, for erection of residence for F. G. Landen, of New York City.

TRENTON.—King Candy Co. will erect \$20,000 apartment house and factory building at West Hanover and Chancery Sts. Wm. P. Enderbrock, Architect.

St. John's Episcopal Church will erect parish hall at South Clinton and Lakeside Aves. Rev. S. Norris Craven, Pastor.

Erection of addition to police station on Chancery St. is being considered.

TRENTON.—Council is considering \$80,000 appropriation for building Rutherford Ave. school and \$9,000 for rebuilding walls of Cook school.

NEW MEXICO

CLAYTON.—Attorneys Easterwood and Eaton will erect brick buildings on Main St.

NEW YORK

ALBANY.—Bids will be received until 3 p. m., Nov. 7, for erection of police station on N. Pearl St. I. Wachsmann, Secretary Board of Contract and Supply.

BINGHAMTON.—Board of Education has asked Council to secure plans for proposed high school.

ELMIRA.—The W. R. Compton Realty & Building Co. will erect a 1-story business block on Railroad Ave.

HUDSON FALLS.—Chas. G. Ogden, 59 State St., Albanay, will prepare plans for erection of \$30,000 edifice for First M. E. Church. Rev. J. H. Atwell, Pastor.

JERICO, L. I.—Plans are being prepared for erection of residence on Old Glen Cove Road for Mrs. Virginia Fair Vanderbilt.

LE ROY.—County is considering erection of tuberculosis hospital. Address Supervisor McVean.

LOWERRE.—John Kirby, 851 Fifth Ave., New York City, is receiving bids for erection of \$50,000 Catholic Church. Rev. Richard Hughes, pastor.

NEW YORK.—Legal Realty & Mortgage Co., 5 Beekman St., will erect twelve-story \$225,000 brick loft at Lafayette and Fourth Sts. Herter Bros., same address, architects.

Ebling Brewery Co. will erect \$6,000 brick garage at St. Ann's Ave. and 156th St. Fred Hammond, 391 E. 149th St., Architect.

Pelham Hoffman Realty Co., Rudolph Simon, 1842 Washington Ave., President, will erect one-story brick stores and amusement hall on Huffman St. at cost of \$25,000. Goldner & Goldner, 704 Jackson Ave., Architects.

NEW YORK.—Henessey Realty Co., J. Polstein, President, will erect eight-story \$400,000 apartment house on Eighty-third St. Schwartz & Gross, 347 Fifth Ave., Architect.

M. L. Carroll and A. L. Townsend will erect three-story \$17,000 brick stable on Washington St. H. C. Pittman, 22 East Twenty-first St., Architect.

NEW YORK.—G. F. Johnson, Seventy-second St. and Riverside Drive, will erect 4-story \$175,000 brick theatre on Extra Place. G. Kerster, 12 W. Thirty-first St., Architect.

A. F. Eno, 13 S. William St., will erect 4-story \$10,000 brick store and lofts on Front St. J. H. Whitenack, 99 W. Third St., Architect.

R. I. Brown, 162 W. Seventy-sixth St., will expend \$2,000 in improving residence on 129th St. Reiley & Steinback, 481 Fifth Ave., Architect.

IF YOU are interested in detailing a wide opening for elevator fronts, let us send you a full size detail of the

Krause Patent Lever Opener and Lock

for operating two part elevator doors.

¶ It is so smooth in its action, simple in its construction and free from mechanical imperfections that it will appeal to you as it has to many other Architects who are specifying it.

Manufactured by the

Boston Art Metal Company

Boston, Mass.

New York Office:

302 Broadway

NEW YORK.—Robert A. Chesebrough will erect five-story, \$80,000 dwelling at Madison Ave. and Seventy-first St. A. J. Bodker, 25 W. Thirty-second St., Architect.

Plimpton Construction Co., Nathan Cohen, Plimpton Ave., President, will erect four two-story dwellings, cost \$27,000, on Cedar Ave. J. J. Vreeland, 2019 Jerome Ave., Architect.

NEW YORK.—Rouse and Goldstone, 12 W. Thirty-second St., are preparing plans for erection of twelve-story hotel on Fifty-fifth St., near Broadway.

General contract for erection of eleven-story \$200,000 addition to O. P. Heenan, Collins & Co. building has been awarded to Chas. A. Govan & Co., 1123 Broadway. Buchman & Fox, 11 E. Fifty-ninth St., architects.

C. Pull will erect five three-story brick dwellings on 173d St. Cost \$30,000. C. S. Clark, 443 Tremont Ave., architect.

NEW YORK.—Department of Charities will soon ask bids for erection of \$60,000 industrial school on Randall's Island. W. T. Flanagan, 5 E. 26th St., Architect.

Louis Schramm, 426 W. Twenty-sixth St., will erect \$50,000 warehouse at 432 W. Twenty-sixth St. C. M. Straub, 147 Fourth Ave., architect.

NIAGARA FALLS.—Architect J. E. Wright has prepared plans for home for Niagara Falls Exempt Firemen's Association to be erected on Third St.; plan to erect home at Walnut Ave. and Sixth St. abandoned.

NORTH TONAWANDA.—Church of Our Lady of Cestochowa will erect edifice on Olive St. next spring.

OSWEGO.—Citizens have voted to raise \$45,000 for erection of two schools on east side of river.

ROCHESTER.—Catholic chapel of St. Salome at Sea Breeze will be rebuilt in spring. Rev. J. F. Staub, Holy Redeemer Church, city, is interested.

ROCHESTER.—Plant of Rochester Gas Engine Co., 707 Lexington Ave., will be rebuilt. Jas. S. Graham, 485 University Ave., President.

ROCHESTER.—J. W. Sturandt Manufacturing Co. will erect factory on Lyell Ave.

ROME.—J. H. Carroll has had plans prepared for erection of theatre.

SYRACUSE.—Architect Ward W. Ward has completed plans for \$8,000 residence which Captain John B. Tuck, National Guard, will build for a home at Allen St. and Concord Pl.

SCHENECTADY.—Day Nursery is considering erection of building. Mrs. J. L. Fitzgerald, 831 Union St., is interested.

TARRYTOWN.—Armour & Co. are preparing to erect \$40,000 refrigerator warehouse. R. C. Clarke, 205 La Salle St., architect.

WHITE PLAINS.—John C. Moore has prepared plans for erection of residence for C. J. Beakes of New York Central Railroad.

YONKERS.—Chas. S. Clark, 443 Tremont Ave., New York City, has prepared plans for erection of brick and marble residence in Sherwood Park for Jos. Tesoro.

OHIO

CINCINNATI.—H. W. Beneker is planning to erect two residences on Glenwood Ave., Avondale.

CINCINNATI.—Herbert L. Pachoud is considering erection of number of residences on Williams Ave.

CINCINNATI.—Drs. N. W. and C. C. Abbott will erect two modern residences in Clifton at cost of \$14,000. H. H. Seinsheimer Paper Co. will erect two-story \$50,000 reinforced concrete warehouse on McLean Ave.

CINCINNATI.—Architect Lou Dittoe is preparing plans for \$50,000 manufacturing plant for the Bode Realty Co., on the east side of Central Ave.

CLEVELAND.—Chas. Orr, Director of schools, will purchase sites for erection of five schools.

CLEVELAND.—Plans are being prepared by Architects White & Shupe, Schofield Bldg., for two new residences to be built on Shaker Heights, one for R. L. Andrews and the other for C. C. Wise. Cost, from \$10,000 to \$12,000 each.

Collinwood Methodist Church will erect new building. Architects Maurer & Mills have been commissioned to prepare plans.

CLEVELAND.—Architects Brunner and Carrere, of the group plan commission, have approved plans of Architect Milton Dyer, Cuyahoga Bldg., for Warrensville tuberculosis hospital.

COLUMBUS.—Architects Stribling and Lum, 85 N. High St., are drawing plans for a three-apartment building to be erected on Hildreth Ave. for W. F. Hutchison.

Architect H. C. Jones, Desher Block, is drawing plans for frame residence to be erected on Hildreth Ave. for H. L. Johnson.

LIMA.—Bids will be received until noon, Nov. 10, for building foundations for Infirmary "A"; Infirmary "B"; Women's Pavilion; and Isolation Pavilion; Frank L. Packard, New Hayden Bldg., Columbus, architect. S. A. Hoskins, Chairman Board of Commissioners.

SANDUSKY.—Suspension Roller Bearing Co. will erect number of buildings.

TOLEDO.—Board of Education will open bids Dec. 5 for erection of two high schools after revised plans.

TOLEDO.—Gendron Wheel Co. will erect \$25,000 addition to plant at Superior and Orange Sts. Langdon & Hohly.

TOLEDO.—Bacon & Huber, The Spitzer, have prepared plans for erection of addition to building on Wheeling St.

W. B. Geroe is having plans prepared by Bacon & Huber, The Spitzer, for six-apartment flat building to be erected at 2121 Jefferson Ave.

UTICA.—Architect C. L. Inscho, Brunson Bldg., Columbus, is drawing plans for four-story building to be erected for W. B. Vance.

YOUNGSTOWN.—Bids will be received until noon, Nov. 11, for erection of school at Truesdale and Charlotte Aves.; also for erection of school in Brier Hill District. Kling & Zenk, Architects. W. N. Ashbaugh, Director of Schools.

OREGON

KLAMATH FALLS.—Union Meat Co. will erect warehouse and office building. C. F. Conrad, Manager.

PORTLAND.—H. B. Dabney is interested in proposed erection of modern business building at Grand Ave. and E. Pine St.

Thos. H. Garland will erect apartment house at Washington and Twentieth Sts. Williams & Rasmussen, Architects.

Roberts & Roberts, Architects, are preparing plans and specifications for \$30,000 laundry building, which will be built on corner of E. Sixth and E. Oak Sts., for Charles S. Hacker.

PORTLAND.—Complete plans for proposed \$400,000 Lincoln High School have been presented to the Board of School Directors by Architects Whitehouse & Foulhoux.

Building Committee of the Multnomah Amateur Athletic Club has settled upon plans for \$175,000 club home, to be built on Salmon St.

PORTLAND.—Webster & Williams, Fashion Stables, are having plans prepared for erection of \$25,000 building.

National Coal Storage & Ice Co. will at once erect \$35,000 annex on East Washington St.

PENNSYLVANIA

AMBLER.—C. E. Schermerhorn and Watson K. Phillips, Associate Architects, 430 Walnut St., Philadelphia, have completed preliminary drawings and specifications for three-story stone residence to be erected for Mr. Harvey B. Allen; bids received by owner not later than October 26.

BALA.—John R. K. Scott has had plans prepared by Frank Seeburger, Philadelphia, for erection of six modern houses on Upland Terrace and Birch Ave. Cost, \$36,000.

CHESTER.—First United Brethren Congregation will erect chapel at Philadelphia and Newberry Sts. Plans being prepared.

CHESTER.—Brigadier General W. G. Price, Jr., will erect fifty dwellings on Parker St.

HARTSVILLE.—Log College Association will erect auditorium and other necessary buildings.

INGRAM.—Plans are made on bids being asked on two brick houses on Stowe and Stanley Sts., on the plan of M. J. McMahon.

LEBANON.—The World's Cigar Co., St. Paul, Minn., will erect plant in this city.

PHILADELPHIA.—Architect E. Allen Wilson, Land Title Bldg., has completed plans for a 3-story office building at Thirty-ninth St. and Lancaster Ave. for Thomas Collier.

PHILADELPHIA.—Architect Horace Trumbauer, Land Title Bldg., has completed revised plans for erection of \$500,000 addition to Union League building, Fifteenth and Sansom Sts.

Architects Ballinger and Perot, 1211 Arch St., have prepared plans for erection of granite chapel at Tioga and Weymouth Sts. for St. Philip's M. E. Church.

PHILADELPHIA.—Architects Ballinger & Perot, 1211 Arch St., have invited revised bids for eight-story building for Leo and Arthur A. Niessen, at corner of Twelfth and Race Sts.



Home of Walter H. Miller.

Walter F. Miller, Architect, Chicago

Because of the great importance of the Bath Room, the Kitchen and Laundry, the selection of the fixtures for these rooms should receive the most careful attention.

A thorough investigation will convince Architect as well as owner that WOLFF Plumbing Fixtures give entire satisfaction in quality, design and workmanship; this has been our aim for over 55 years.

L. WOLFF MANUFACTURING CO.

ESTABLISHED 1855

Manufacturers of Plumbing Goods Exclusively

The only complete line made by any one firm.

GENERAL OFFICES:

601 to 627 West Lake Street, Chicago

Showrooms: 91 Dearborn Street, Chicago

DENVER

TRENTON

BRANCH OFFICES:

St. Louis, Mo., 2210-2212 Pine Street
 Cleveland, Ohio, Builders' Exchange
 San Francisco, Cal., Manadnock Building
 Washington, D. C., 327 Bond Building

Minneapolis, Minn., 615 Northwestern Building
 Kansas City, Mo., 1204 Scarrett Building
 Omaha, Neb., 1116-1118 Douglas Street
 Buffalo, N. Y., 61 Manchester Place

PHILADELPHIA.—Jewish Congregation of Frankford is considering plans for erection of \$10,000 synagogue on Paul St. Architect E. Allen Wilson, Land Title Bldg., has completed plans for forty two-story houses to be erected on Locust St. for John C. Knox.

Park Commission is considering plans for erection of large municipal convention hall. John T. Windrim, Commonwealth Bldg., architect.

PHILADELPHIA.—Plans are in preparation by H. H. Markley for six two-story flat houses to be built on Markoe St. at a cost of \$6,500 each.

PHILADELPHIA.—Ballinger & Perrot, Architects, 1211 Arch St., have completed plans and specifications and invite bids for a chapel, to be erected at corner of Tioga and Weymouth Sts., for St. Philip's Methodist Episcopal Church, under auspices of the Philadelphia City Mission and Church Extension Society, who also plan erection, at a later date, of a large church adjoining the chapel on the corner of Tioga and F Sts.

PITTSBURG.—Architect R. M. Trimble, Ferguson Bldg., has completed foundation plans for three-story brick and terra cotta building to be constructed on Butler and Forty-fifth Sts. for Lawrenceville Branch Y. M. C. A., to cost \$125,000; architect will soon take bids on foundations only.

PITTSBURG.—Building Committee, Pittsburg Presbytery, has adopted plans by Ballinger and Perot, 1211 Arch St., Philadelphia, for erection of dormitory for Western Theological Seminary. Rev. Dr. Jas. A. Kelso, President of Seminary

PITTSBURG.—Architects Palmer & Hornbestel, Empire Bldg., have prepared plans for erection of annex to Rodelper Shalom temple.

ROCHESTER.—Dr. J. C. Kunzman, Philadelphia, will erect four-story brick business block at lower Brighton and Pleasant Sts.

SCRANTON.—Plans for a \$50,000 club house and gymnasium are now being evolved by Hebrew Institute Association. Rabbi W. Gold, Linden St. Temple, is interested.

WILKES-BARRE.—Architects Reilley & Schroeder, Bennett Bldg., have prepared plans for erection of station house.

WILLIAMSPORT.—South WilliamSPORT School Board has purchased site for erection of school.

WILLIAMSPORT.—W. H. C. Huffman & Sons will erect modern garage on Third St.

RHODE ISLAND

CRANSTON.—Council has decided to purchase site on Cottage St. for erection of school.

WESTERLY.—Town has decided to erect proposed town hall at Union and Broad Sts.

SOUTH CAROLINA

CHARLESTON.—N. Sottile will erect building at corner of King and Market Sts.

Bids will be received until noon, Nov. 4, for erection of Administration Bldg. of Lutheran Theological Seminary. Rev. C. A. Freed, Secretary; C. M. Robinson, Richmond, Va., Architect.

TENNESSEE

CHATTANOOGA.—Architects J. G. Barnwell and C. J. Jones have prepared plans for erection of five-story building on Eleventh St.

NASHVILLE.—Bids will be received until noon, Oct. 31, for erection of addition to Ross School on Ordway Pl. Asmus & Norton can be addressed.

Hospital, cost \$250,000, will be erected at Sixteenth Ave. and Division St. by Tennessee conference, M. E. Church, South. J. G. Carpenter, Architect. A. B. Ransom is interested.

NASHVILLE.—Plans have been prepared by J. Benner Fletcher, Homestead Bldg., for erection of two store houses at Twenty-second Ave. and Church St. for J. D. Fletcher.

TEXAS

CLEBURNE.—Olive Lodge, No. 31, K. of P., has decided to erect Pythian temple.

DALLAS.—Breihan-Kaplan Co. is having plans prepared for erection of two-story brick business house on Main St.

DE LEON.—Citizens have voted bonds for erection of city hall. Work will begin at once.

EAGLE PASS.—Bids will be received until Nov. 19 for erection of proposed post office. Jas. K. Taylor, Washington, D. C., Supervising Architect, Treasury Department.

EL PASO.—Bnai Zion Hebrew Congregation is considering erection of temple on North El Paso St. J. Snider, president.

EL PASO.—Congregational Church has purchased site at Williams and Rio Grand Sts. for erection of edifice.

FLORESVILLE.—Council is considering election on \$18,000 bonds to erect school.

HOUSTON.—Home Telephone Co. is having plans prepared for erection of telephone exchange. F. E. Ebersole is interested.

HOUSTON.—Firm of Mauran & Russell has been selected as supervising architects for erection of \$1,000,000 hotel on present site of Rice Hotel.

HOUSTON.—Home Telephone Co. will erect building at Rusk Ave. and Caroline St. Plans being prepared.

ORANGE.—First Methodist Church has decided to erect edifice at Elm and Sixth Sts.

SAN ANTONIO.—Building Committee of Chamber of Commerce has decided on plans for erection of large building. Jake Wolff and L. J. Hart are interested.

SWAN.—Baptist Church has accepted plans for erection of edifice.

UTAH

SALT LAKE CITY.—Dallas & Hedges, architects, will prepare plans for erection of school on Eleventh South St.

VERMONT

BURLINGTON.—Architect Frank L. Austin will prepare plans for erection of new Lamoille County buildings at Hyde Park.

VIRGINIA

ALEXANDRIA.—Methodist Episcopal Church, South, is considering erection of parsonage on S. Washington St.

HARRISBURG.—Site at end of Gay St. has been secured for erection of school. Plans being prepared.

NATIONAL SOLDIERS' HOME.—Bids will be received by John T. Hume, Treasurer, Southern Branch, N. H. D. V. S., until 1:30 p. m., Nov. 10, for constructing three barracks

NEWPORT NEWS.—Max Levinson will erect \$5,000 packing plant near Hampton and Thirteenth Sts.

NORFOLK.—Finance Committee is considering \$55,000 appropriation for police station.

WASHINGTON

PASCO.—Gus. Harris, Walla Walla, is considering erection of two-story concrete building.

SPOKANE.—Bids have been rejected for replacement of South Central High School; new building, cost \$450,000, is being considered. H. W. Allen, President, Board of Education.

SPOKANE.—Broadview Dairy Co. will erect \$25,000 plant. Frank Flood, General Manager.

SPOKANE.—Fred Markwell will erect residence at Nineteenth and Ray Sts.

SPOKANE.—Frank Hogan, Percy Howell and W. G. Davidson will erect residences on Wellington Place, Audubon Park, at total cost of \$41,000.

John Gander will erect \$6,000 residence on Sharp Ave. C. Harvey Smith, Eagle Bldg., Architect.

WALLA WALLA.—Walla Walla College, M. E. Cady, President, will rebuild structure destroyed with loss of \$75,000.

WEST VIRGINIA

HUNTINGTON.—John Rau, Sr., will erect business block on Fourth Ave.

MORGANTOWN.—Erection of armory is being considered. Lieutenant Price is interested.

WARWOOD.—Protestant Episcopal Congregation is considering erection of edifice.

WHEELING.—J. E. Moss Iron Works, Schmulbach Bldg., will erect plant.

WISCONSIN

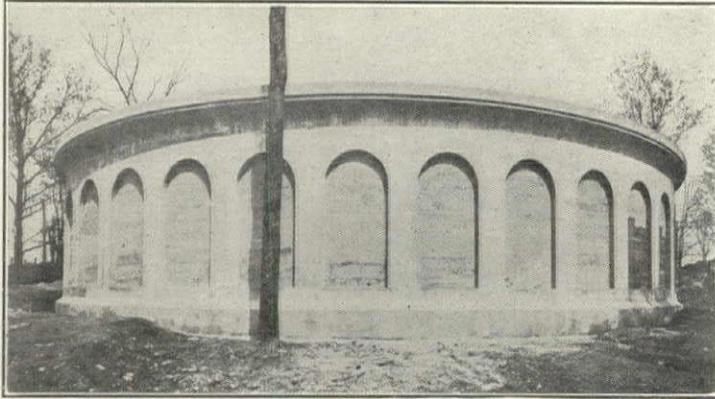
BELOIT.—St. Peters Church, South Beloit, is considering erection of \$15,000 edifice.

CHIPPEWA FALLS.—J. W. Keogh, Chicago, will erect factory. Progressive League is interested.

FOND DU LAC.—Turn Verein is considering erection of modern brick building.

MADISON.—Sisters of St. Mary will erect \$75,000 hospital.

MILWAUKEE.—Architects Ferry & Clas, 419 Broadway, have prepared plans for erection of temporary stores at Wells and Third Sts. for Patrick Cudahy.



600,000 Gallon Reservoir at Cos Cob Power Plant, N.Y., N.H. & H.R.R. Westinghouse, Church, Kerr & Co., Engineers.

MADE WATERTIGHT WITH **HYDREX**

THE WATERPROOFING FELT

Cemented together with (hot) Hydrex Compound

Per

"THE MEMBRANE METHOD"

HYDREX FELT AND ENGINEERING COMPANY

Manufacturers and Specialists in Waterproofing Materials

120 LIBERTY STREET, NEW YORK

WASHINGTON, D. C. FACTORIES: RAHWAY, N. J.

"When in Water Remember Hydrex"

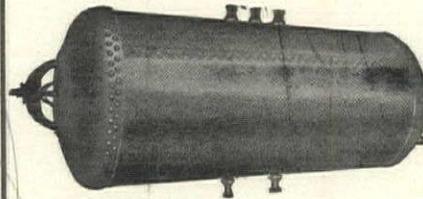
Isolated Lighting Plants

We are now installing many small Storage Battery plants which are giving excellent service. You will be surprised at the low cost and wonderful efficiency of our complete outfit.

Capacities: From ten amperes up. Let us send literature describing them.

THE FAIRBANKS COMPANY

Albany	Baltimore	Bangor	Boston	Buffalo
Hartford	New Orleans	New York	Philadelphia	Pittsburg
Syracuse	London	Glasgow	Hamburg	Paris



"Dahlquist"

THAT IS THE NAME TO REMEMBER

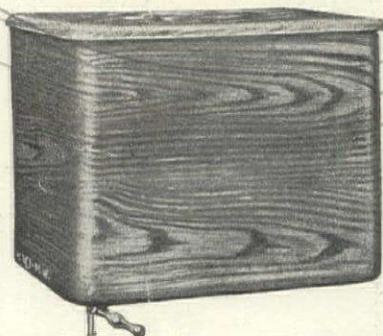
WHEN YOU SPECIFY BOILERS

BOSTON COPPER BOILERS

ARE BY TEST THE BEST

Will give satisfaction to you and your client. Our Copper Range Boilers are the best made and every one guaranteed. Let us send you illustrated booklet and price list.

DAHLQUIST MFG. CO., 38 W. 3d St., BOSTON



Make the Whole Bathroom Sanitary

As a safeguard against the many diseases attributable to filth, foul odors and vermin, sanitary plumbing is a necessity. But sanitary plumbing is not a reality without perfectly sanitary seats and tanks, and J-M Sanitor are the only sanitary seats and tanks. Read these remarkable points of superiority found only in



fectly sanitary seats and tanks, and J-M Sanitor are the only sanitary seats and tanks. Read these remarkable points of superiority found only in

J-M Sanitor Seats and Tanks

Moulded in one solid piece under heavy hydraulic pressure from specially treated indurated fibre. Seamless and jointless, they have no sections to come apart. No bolts, braces, screws or nails to work loose. No pores, cracks or crevices to harbor filth, foul odors and vermin. Cannot split or crack open as they are moulded in a homogeneous mass. They do not warp, swell or shrink and throw inside fittings out of adjustment. Stand harder usage and last several times as long as those made of wood.

J-M Sanitor have none of the failings of wooden seats and tanks, yet they cost no more than high grade wooden goods. Are furnished complete with fittings in mahogany, oak and white enamel and look exactly like wood.

Write nearest branch for Booklet and Sample of Sanitor Material

H. W. JOHNS-MANVILLE CO.

Manufacturers of Asbestos and Magnesia Products.

ASBESTOS

Asbestos Roofings, Packings, Electrical Supplies, Etc.

Baltimore
Boston
Buffalo

Chicago
Cleveland
Dallas

Detroit
Kansas City
London

Los Angeles
Milwaukee
Minneapolis

New Orleans
New York
Philadelphia

Pittsburg
San Francisco
Seattle

St. Louis

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.

Toronto, Ont.

Montreal, Que.

Winnipeg, Man.

Vancouver, B. C.

1301

POSITIONS WANTED

The rate for advertising under this heading in uniform style, solid type, is 50 cents for 50 words or less, **payable in advance**. Copy received until 12 m. Monday.

ARCHITECTURAL ENGINEER, expert designer of steel and concrete work, capable of preparing complete set of working plans for high class buildings, complicated alterations, thoroughly familiar with the Building Code of New York and general specifications, offers his services to architects requiring temporary assistance in carrying out important work. Address Box No. 5C, care American Architect. (1805-T.F.)

ARCHITECTURAL Draughtsman, open for permanent position; 18 years' practical all-around experience construction, details, specification writing and outside superintendence a specialty; thoroughly familiar with New York building and tenement house laws; would take charge of office; New York City preferred. Address 14C, care American Architect. (1817-18)

COMPETENT Architectural Draughtsman wishes steady position with Boston architects having plenty of work. About eight years' office practice; studied for the Rotch Scholarship, also three years illustrating and engraving houses. Perspectives, pen and ink or color work, also half tones. Proportional changes quickly made. Address 17A, care American Architect. (1817-18)

POSITION wanted in New York City. Architectural draftsman, ten years experience city and country work, design rendering and work plans. Salary reasonable. Address 17B, care the American Architect. (17B 1817-18)

YOUNG MAN (22) wishes position in architect's office. Has one year college and one year architect's office experience, with first-class reference. Would be willing to start on small salary if chance for advancement. Address 18B, The American Architect. (1818)

ARCHITECTURAL draftsman; highly educated German of broad experience, five years in New York, efficient and proficient in all branches of the profession, desires a position in charge of office of responsible drafting room in the Middle West. Address 18D, American Architect. (1818-19)

EXPERIENCED draftsman and superintendent, capable of taking charge of moderate sized office, doing church, residence, school and apartment house work, acquainted with theater and reinforced concrete construction, pen and ink perspective but no water color work, desires position in reputable Southern office with view to future partnership. Good references. Address "B," care Witt & Seibert, Texarkana, Ark. (1818)

ARCHITECTURAL DRAFTSMAN.—Technical graduate, experienced in making working drawings, details and specifications. Has knowledge of designing steel and concrete construction. Willing to take an opportunity in any location. Address I. G., care Mrs. Evans, 245 Grand Ave., Brooklyn, N. Y. (1818)

ARCHITECTURAL draftsman desires temporary position in office in South or West. Eight years experience in office of reputable eastern firm of architects. References furnished. Address 18A, care American Architect. (1818)

TECHNICAL GRADUATE, wide experience in engineering and construction end of architecture; capacity for thoroughness in details, specifications and contracts, good executive, desires responsible position with architect or contractor. Address 18C, care American Architect. (1818 & T. F.)

HELP WANTED

The rate for advertising under this heading is 15 cents a line, with a minimum of five lines. About 7 words make a line. **Remittance should accompany copy**. Copy received until 12 m. Monday.

ARCHITECTURAL and Ornamental iron draftsmen needed constantly; salaries \$18 to \$35 per week. The Engineering Agency, Inc., Monadnock Block, Chicago.

SALESMAN visiting architects and builders for new patented kitchen and laundry utility of great merit. Sells on sight from pocket photograph as superiority is quickly recognized. Liberal commission. Mesha Mfg. Co., 118 Beekman St., New York. (1817-T.F.)

PROPOSALS

The rate for advertising under this heading is 15 cents a line, with a minimum of five lines. About 7 words make a line. Copy received until 12 m. Monday.

Treasury Department, Office of the Supervising Architect, Washington, D. C., Oct. 11, 1910.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 23d day of November, 1910, and then opened, for the extension, etc., except elevator (including plumbing, gas piping, heating apparatus, electric conduits and wiring system), of the U. S. Post Office at Rock Island, Ill., in accordance with the drawings and specifications, copies of which may be obtained from the Custodian at Rock Island, Ill., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1817-18)

Treasury Department, Office of the Supervising Architect, Washington, D. C., Oct. 17, 1910.—Notice is hereby given that the time for opening bids for the heating and ventilating system in the New York Post Office has been extended from November 3, 1910, to 3 o'clock p. m. on December 1, 1910. James Knox Taylor, Supervising Architect. (1818-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., Oct. 17, 1910.—Notice is hereby given that the time for opening the bids for the electric elevator equipment in the new Post Office building at New York, N. Y., has been extended from November 3, 1910, to 3 o'clock p. m. on the 1st day of December, 1910. James Knox Taylor, Supervising Architect. (1818-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., Oct. 17, 1910.—Notice is hereby given that the time for opening bids for the construction of the new Post Office building at New York, N. Y., has been extended from November 3, 1910, to 3 o'clock p. m. December 1, 1910.—James Knox Taylor, Supervising Architect. (1818-19)

Treasury Department, Office of the Supervising Architect, Washington, D. C., Oct. 17, 1910.—Notice is hereby given that the time for opening the bids for the pneumatic door operating system in the new Post Office building at New York, N. Y., has been extended from November 3, 1910, to 3 o'clock p. m. December 1, 1910.—James Knox Taylor, Supervising Architect. (1818-19)

A BRAND NEW BOOK**Corrosion and Preservation of Iron and Steel**

By A. S. Cushman, A. M., Ph. D. and Henry A. Gardner

375 pages

6 x 9, illustrated

\$4.00 net

This book will appeal strongly to all who are interested in structures and buildings.

The authors are specialists in their respective lines. Dr. Cushman is a chemist in charge of the U. S. Government investigations and Mr. Gardner is Director of the Scientific Section of the Paint Manufacturers' Association.

The book treats thoroughly the causes, but does not stop at that. It goes carefully into the details of protective coatings and their application. It deals with all classes of iron and steel work under all sorts of conditions, and gives the results of the best research and experimentation for protection. Tests now being carried on by the government are outlined at length.

BOOK DEPT.

The American Architect, 239 W. 39th St., NEW YORK

ALPHABETICAL LIST of ADVERTISERS

A	L
Abbott, A. H., & Co. (o.a.m.)..... 18	Lane, Maynard E..... 18
Adams, James..... 2	Loomis-Manning Filter Co..... 19
American Luxfer Prism Co..... 2	Lufkin Rule Co..... 19
American Mason Safety Tread Co.. 19	
American Radiator Co. (e.o.w.)... 19	M
American Steel & Wire Co..... 19	McCormick Waterproof Portland
Architectural Post Card Co. (o.a.m.)	Cement Co..... 18
Armstrong Cork Co. (e.o.w.)..... 23	McCray Refrigerator Co..... 18
Art Metal Construction Co..... 23	McCrum-Howell Co..... 35-37
Artesian Well & Supply Co. (e.o.w)	Merchant & Evans Co. (e.o.w.)... 27
Associated Tile Manufacturers	Meurer Bros. Co..... 27
(o.a.m.)..... 27	Monarch Metal Weather Strip Co. 20
Atlantic Terra Cotta Co..... 27	Monument Pottery Co..... 32
Atlas Portland Cement Co. (e.o.w.) 40	Moss Photo Engraving Co..... 24
Austin Organ Co. (e.o.w.)..... 24	Mueller, H., Mfg. Co. (e.o.w.)... 19
	Mueller Mosaic Co..... 19
B	Mullins Co., The W. H..... 26
Barrett Mfg. Co. (o.a.m.)..... 18	Murdock-Reed Co. (e.o.w.).....
Barwick, Thomas..... 25	
Berger Mfg. Co..... 25	N
Bird, F. W., & Son (o.a.m.)..... 25	National Fireproofing Co..... 19
Bird, J. A. & W. Co..... 11	National Lead Co. (e.o.w.)..... 5
Boston Art Metal Co..... 11	Neuchatel Asphalt Co..... 28
Boyd Lawrence Visscher..... 36	Never-Split Seat Co..... 7
Brantford Syenite Quarries Co..... 40	New York Belting & Packing Co.. 19
Builders Auxiliary Co..... 40	New York Bridge and Iron Co.... 19
Burt Mfg. Co. (e.o.w.)..... 27	Northwestern Terra Cotta Co.... 27
C	O
Cabot, Samuel, Inc..... 5	Okonite Co. (e.o.w.)..... 22
Cahill Iron Works..... 24	Otis Elevator Co. (e.o.w.).....
Campbell, Walter M..... 18	
Chehalis Fir Door Co. (o.a.m.)... 40	P
Chicago Portland Cement Co..... 30	Pacific Sash Co. (e.o.w.)..... 7
Climax Sanitary Co..... 30	Peck-Williamson Co. (o.a.m.)... 22
Clinton Wire Cloth Co..... 17	Peerless Rubber Mfg. Co. (o.a.m.)
Clow, James B. & Sons (e.o.w.)... 17	Pierce, Butler & Pierce Mfg. Co.
Corrugated Bar Co..... 15	(e.o.w.)..... 7
Cudell, F. E. (e.o.w.)..... 26	Pomeroy, S. H., Co., Inc., (o.a.m.)
Cutler Mail Chute Co..... 20	Pray, John H., & Sons Co. (o.a.m.)
	Pullman Mfg. Co., (e.o.w.)..... 17
D	
Dahlquist Mfg. Co. (e.o.w.)..... 22	R
Dahlstrom Metallic Door Co..... 22	Raymond Concrete Pile Co..... 22
Dean Bros..... 18	Richardson & Boynton Co..... 22
Deane, E. Eldon..... 23	Rising & Nelson Slate Co. (e.o.w.)
Decorators Supply Co..... 19	
Deming Co., The..... 22	S
Detroit Show Case Co. (o.a.m.)... 5	Samson Cordage Works..... 40
Dexter Bros. Co..... 5	Sandusky Portland Cement Co.... 24
Dixon Crucible Co., Jos..... 25	Schreiber & Sons Co., The L..... 22
Dunning, W. D..... 32	Sedgwick Machine Works..... 26
Drouve, G., Co. (e.o.w.)..... 32	Seifert, Frank A., Plastic Relief
	Co. (e.o.w.)..... 20
E	Silver Lake Co..... 23
East Bangor Consolidated Slate Co.	Smith, Edward, & Co. (o.a.m.)... 18
(e.o.w.)..... 20	Society of Beaux-Arts Architects. 25
Edison Portland Cement Co..... 40	Speakman Supply & Pipe Co. (e.o.w.)
Elevator Supply and Repair Co.. 40	Standard Varnish Works.....
Estey Organ Co. (e.o.w.)..... 5	
	T
F	Taylor, J. W..... 18
Fairbanks Co., The..... 15	Taylor, N. & G., Co. (o.a.m.)... 38
Fisher Co., Robert C..... 19	Thomas & Smith (e.o.w.)..... 30
Follansbee Bros. (e.o.w.)..... 5	Thorp Fireproof Door Co..... 30
French & Co., Samuel H..... 20	Trenton Potteries Co..... 39
Frink, I. P..... 5	Trussed Concrete Steel Co..... 19
	Turner Construction Co..... 19
G	
General Electric Co. (o.a.m.)..... 31	U
General Fireproofing Co..... 31	U. S. Mineral Wool Co..... 19
Glidden Varnish Co. (o.a.m.)..... 23	United Electric Co. (e.o.w.)... 28
Globe Ventilator Co..... 9	United States Gypsum Co..... 31
Goodyear Tire & Rubber Co. (e.o.w)	Universal Portland Cement Co... 26
Gorham Co. (o.a.m.)..... 19	Universal Safety Tread Co. (e.o.w.)
Grand Rapids Foundry Co. (e.o.w.)	University of Illinois..... 18
Gurney Heater Mfg. Co..... 19	University of Pennsylvania..... 18
	University of Michigan..... 18
H	
Hart Mfg. Co. (o.a.m.)..... 20	V
Hess Warming & Ventilating Co.. 20	Vacuum Engineering Co..... 19
Higgins & Co., Chas. H. (e.o.w.) 20	Vaile & Young..... 19
Hunt, Robert W., & Co..... 40	
Hydrex Felt and Engineering Co.. 15	W
	Wadsworth Howland & Co. (o.a.m.)
I	Warner Co., Charles (o.a.m.)... 18
Ideal Concrete Machin'y Co. (e.o.w.)	Watson, W. J..... 19
Imperial Brass Mfg. Co..... 40	White Enamel Refrigerator Co... 34
	White Fireproof Construction Co.. 9
J	Winkle Terra Cotta Co. (o.a.m.)... 13
Jackson, Wm. H., Co. (e.o.w.)..... 5	Winslow Bros. Co. The (e.o.w.)... 9
Jenkins Bros..... 15-29	Wolf, L., Mfg. Co..... 20
Johns-Manville Co., H. W..... 19	Woodbury Granite Co..... 29
Johnson, E. J. (e.o.w.)..... 19	Wood-Mosaic Co. (e.o.w.)..... 29
Jones, T. W. (e.o.w.)..... 39	
	Y
K	Yellow Pine Mfrs. Assoc..... 33
Kahn System of Reinforced Con- crete..... 39	
Kasch Roofing Co. (o.a.m.)..... 33	
Kawneer Mfg. Co..... 33	
Keasby & Mattison Co. (e.o.w.)... 33	
Keller Mfg. Co..... 33	
Kelsey Heating Co. (o.a.m.)..... 33	
Kewanee Boiler Co..... 33	
Kewanee Water Supply Co..... 19	

The Cutler Mail Chute

"The Cheapest Modern Improvement."



Mail Box No. 1165

The cost of the Cutler Mail Chute in a ten story office building is so small that the interest on the investment amounts to only about \$1.25 per week.

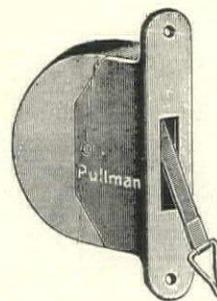
This assumes the use of regular finish and a mail box of stock design, for example, 1165. In a five story building the investment cost would be about 70 cts. per week. A trifle less than 2 cts. per day per story—the cost of a single postage stamp.

There is then no possible reason why even the less important buildings should not have this modern improvement in its best form, and the only way to secure this is to specify the Cutler Mail Chute and insist on getting it.

Infringers are under injunction.

CUTLER MAIL CHUTE COMPANY,
CUTLER BUILDINGS, ROCHESTER, N. Y.

Pullman SPRING SASH Balances



Are specified by the best Architects throughout the country. They are quiet, smooth running, have a good appearance and are easy to install. No pockets, cords, weights or other paraphernalia. Merely cut

a mortise and screw the balance in place, attach the tape, and the window is hung. Besides, **Pullman Balances** last almost indefinitely.

Indispensable in repair work where no provision has been made for cord and weights.

Cut Off Coupon and Mail Today

Pullman Mfg. Co.

40 Allen St., Rochester, N. Y.

20 years' successful use. The Pullman guarantee means something. Pullman Mfg. Co., 40 Allen St., Rochester, N. Y. Gentlemen: Please send me catalogue

Name
Address

UNIVERSITY OF PENNSYLVANIA*SCHOOL OF ARCHITECTURE.*

FOUR-YEAR COURSE. (*Degree B. S. in Arch.*) Architectural engineering may be taken in lieu of advanced design, etc.

GRADUATE YEAR. (*Degree M. S. in Arch.*) Allowing specialization in design or in architectural engineering, etc.

SPECIAL COURSE OF TWO YEARS. (*Certificate.*) For qualified draughtsmen affording option in architectural engineering.

ADVANCED STANDING granted to college graduates and others for required work completed elsewhere.

SUMMER SCHOOL. Instruction in Architecture, offering complete group of technical subjects, affords advanced standing in regular and special courses. Special circular.

FULL INFORMATION may be secured through application to the Dean of The College Department, DR. GEORGE E. FISHER, University of Pennsylvania, Philadelphia, Pa.

UNIVERSITY OF ILLINOIS

Four-year professional courses in Architecture, in Architectural Engineering and in Architectural Decoration. Special courses for draftsmen and constructors. Excellent library and equipment. University fees nominal.

DEPARTMENT OF ARCHITECTURE,
W. I. PILLSBURY, Registrar, Urbana, Ill.

UNIVERSITY OF MICHIGAN**ANN ARBOR, MICH****DEPARTMENT OF ARCHITECTURE.**

Four-year course in Architecture and in Architectural Engineering. Draftsmen and others adequately prepared are admitted as special students. For Bulletin describing work, address Department of Architecture.

THE SOCIETY OF BEAUX-ARTS ARCHITECTS

has established

A FREE COURSE OF STUDY

open to draughtsmen and students of any city, modeled on the general plan pursued at the Ecole des Beaux-Arts in Paris, and comprising frequent problems in Orders, Designs, Archaeology, etc. An annual registration fee of two dollars is required of all students, except those paying tuition at a school of architecture.

For information apply to the Secretary of the Committee on Education, 347 Fifth Ave., New York City.

J. W. TAYLOR'S Photograph Series of American Architecture

Harrison 3897

324 Dearborn Street. CHICAGO, ILL.

WILBUR J. WATSON

Member Am. Soc. C. E.

INDEPENDENT ARCHITECTURAL ENGINEER
REINFORCED CONCRETE EXPERT
1325-1328 Citizens Bldg., Cleveland, O.

THE AMERICAN ARCHITECT'S Book Department is prepared to furnish any architectural work now in print on short notice. Our book advertising, appearing from time to time, will keep you posted. All inquiries promptly answered. THE AMERICAN ARCHITECT, 231-241 W. 39th St., New York.

TO ARCHITECTS

Competition Designs and Perspectives in Water Colors or any Brush Medium, expert—assistance on Preliminary Sketches, and general architectural work, per mail from any distance or at Architects' offices by arrangement. Address JAMES ADAMS, 725 Kearny Ave., Arlington, N. J.

PERSPECTIVES RENDERED

In Water Color and Pen and Ink.
Assistance in preliminary work.

E. MAYNARD LANE

5958 - Prairie Ave. Chicago, Ill.

PERSPECTIVES RENDERED

In Pen and Ink and Water Color

WALTER M. CAMPBELL

Beacon Street, Boston, Mass.

THOMAS BARWICK

Consulting Engineer

2532 Park Row Building, New York

Power Plants, Heating and Ventilating
Lighting and Transmission
Factory Equipment Sanitary Equipment

E. ELDON DEANE

Architectural Colorist

6 West 28th Street New York City

Telephone 1791 Madison

The Architectural Forms of the Classic Ages

COMPRISING THE PRINCIPAL EXAMPLES
OF THE ORDERS OF COLUMNS AND
THEIR ENTABLATURES

By **CONSTANTIN UHDE**
Late Professor at the Technical High School at Braunschweig

SECOND REVISED EDITION

By **R. PHENE SPIERS**
Author of "The Architecture of Greece and Rome"

To this new (second) edition six plates have been added, showing general views of Greek and Roman Buildings, including the Thermae of Caracalle. The work is especially rich in its illustrations, on a large scale, of various details.

Illustrating Egyptian, Assyrian and Persian Architectural Forms, in addition to the Greek and Roman Orders. Fine large details of caps and columns.

76 plates in color, colotype and photo-lithography, with descriptive letter-press, in English, German, French or Spanish.

Price, \$20.00

BOOK DEPARTMENT

THE AMERICAN ARCHITECT

231-241 WEST 39th STREET, NEW YORK

STEEL CONSTRUCTION

By E. A. Tucker, S. B., Architectural Engineer, American Society of Civil Engineers. An up-to-date work containing a fund of invaluable practical information based on actual experience, special tests, etc., for the use of Architects, Bridge Builders, Contractors and Civil Engineers. This book will be found a most complete and serviceable guide covering every phase of the use of steel in structural work of all sorts. It relates to one of the most important phases of modern industry. 275 pp., 275 illus. Cloth binding. Price, \$1.50.

THE AMERICAN ARCHITECT, 239 West 39th St., New York.

Portland Cement Waterproofed

BY THE

MCCORMICK PROCESS

is a Positive Waterproofing of the Cement itself.
Compound 7 cents per pound, any R. R. Station
Mixing machine loaned free with quantity orders.

MCCORMICK WATERPROOF PORTLAND CFME T CO.
Bank of Commerce Bldg., St. Louis, Mo.

CONTRACTS AND SPECIFICATIONS

By James C. Plant, Superintendent of Computing Division, Office of Supervising Architect, Washington, D. C. A working manual of forms and methods for Architects Contractors and Owners. The duties and responsibilities of each are fully explained, with specific instances to illustrate same. Forms of public and private contracts, specifications, bonds, etc., are given. 130 pp., fully illus. Cloth binding. Price, \$1.00

THE AMERICAN ARCHITECT 231-241 West 39th St., New York

MCCRAY REFRIGERATORS

Built to order for any space any capacity—all sanitary linings—Opal Glass, Porcelain Tile, White Enameled Wood, Odorless White Wood. Standard for over 25 years. All stock sizes and styles ready for immediate shipment. Built-to-order refrigerators can be shipped in 3 weeks. See Sweet's Index, pages 1107-1109 and send for the catalog you are interested in.

No. A. H. Built-to-order for residences No. 59. For Meat Markets
No. 87. Regular Sizes for Residences No. 48. For Hotels, Clubs, Institutions
No. 67. For Groceries No. 72. For Florists

McCray Refrigerator Company, 207 Lake St., Kendallville, Ind.
New York Branch, 231 West 42d St.

TURNER 300
Reinforced Concrete
Structures Completed
CONSTRUCTION CO.
Main Office: 11 Broadway, N. Y. City
Branch Offices: 312 Prudential Bldg. Buffalo, N. Y.

**TRIANGULAR MESH
CONCRETE REINFORCEMENT**
Made by
AMERICAN STEEL & WIRE COMPANY
See our ad last week or next week
Chicago, New York, Denver, San Francisco
United States Steel Products Co., 30 Church St., New York, Export Representatives

MASON SAFETY TREADS
For Stairs, Wood, Iron, Marble or Cement
New or old
HUNDREDS OF THOUSANDS IN USE
American Mason Safety Tread Co., Boston

**"SIMPLEX-DUPLEX"
INTERLOCKING STEEL STAIRS**
THE STRONGEST STAIRS EVER CONSTRUCTED
And the prices are right. Send for illustrated catalog
NEW YORK BRIDGE AND IRON CO., 18 W. 34th St., NEW YORK
(See our occasional full page ads.)

Established 1830
THE ROBERT C. FISHER COMPANY
Successors to FISHER & BIRD
MARBLE, MOSAICS and TILING
139th-140 Sts.—Locust Ave. and East River, New York

For hotels, factories, suburban residences, or any building where water supply, sewage disposal outfits, or pumping machinery for any use is needed, Deming Power Pumps are unequalled for economy and efficiency.
THE DEMING COMPANY ::: Salem, Ohio
See Sweet's Index for double page announcement

LOOMIS FILTERS
Improved System Established 1880 Simple and Effective
LOOMIS-MANNING DISTRIBUTING FILTER CO.
Main Office:
828 Land Title Building, Broad and Chestnut Streets, Philadelphia
Boston Buffalo New York Baltimore Washington Chicago

 **MUELLER MOSAIC CO.**
TRENTON, N. J.
Manufacturers of FAIENCE TILE for FLOORS, WALLS, and FIRE-PLACES
CORRESPONDENCE SOLICITED

National Fire Proofing Co., Manufacturers of
Terra Cotta Hollow Tile
Contractors for Construction Fireproof Buildings
You cannot be sure that you have either the best or the cheapest fireproofing unless you give us an opportunity to figure on your plans.
Pittsburgh, Fulton Bldg. Canton City National Bank Bldg.
New York, Flat Iron Bldg. Cincinnati, Union Trust Bldg.
Chicago Commercial National Bank Bldg. Minneapolis, Lumber Exchange.
Boston, John Hancock Bldg. Los Angeles, Central Bldg.
Philadelphia, Land Title Bldg. Toronto, Can. Traders Bank Bldg.
Washington, Washington, Colorado Bldg.

Lightning Rods, Weather Vanes
Protection assured by our continuous copper conductors. Our booklet, "Flashes of Lightning," sent free. Also catalogue of weather vanes, etc.
**THOMAS W. JONES, 180 Front Street
NEW YORK**

Mineral Wool
FIRE, SOUND and VERMIN PROOF **INSULATOR**
SAMPLES AND CIRCULARS FREE
U. S. MINERAL WOOL CO. 140 Cedar St. NEW YORK

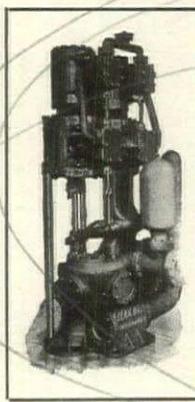
 **VAILE & YOUNG'S
Patent Metallic Skylights**
Without Putty
Construction adapted to all forms and styles of Skylights.
Thousands of feet in use have proved its superiority. Particularly adapted for Depots, Mills, Factories, etc., where large and continuous lights are required. Send for Illustrated Catalogue.
214 N. Calvert St., Baltimore, Md.

LUFKIN
MEASURING TAPES
For work where accurate measurements are essential. They make good in the severest tests.
THE LUFKIN RULE CO. Saginaw, Mich., U. S. A.
New York London, Eng. Windsor, Can.

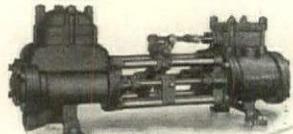
**The Bohn
Stands Alone**
In refrigerators there are no others in the same class To be equipped with the Bohn System Refrigerators is to have the very best that can be made. The many reasons why will be found in 1910 catalog.
White Enamel Refrigerator Co.
Factory, St. Paul, Minn. New York, 59 W. 42nd St.

When You Have a Water Supply Problem to Solve
Investigate the
Kewanee System of Water Supply
See our full page ad in the next or last issue of American Architect, or better still, write for our catalog now
KEWANEE WATER SUPPLY CO. KEWANEE, ILL.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
THEY GIVE ENTIRE SATISFACTION SEND FOR CATALOGUE
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE: 12 E. 42D ST. 198-200 FRANKLIN ST., BOSTON



DEAN BROS. STEAM PUMP WORKS
INDIANAPOLIS, IND.
 VERTICAL AND HORIZONTAL
ELEVATOR PUMPS
 Atlantic Type Boiler Feeders, Water Supply Pumps, Fire Pumps, Electric Pumps, Vacuum Pumps.
 SEND FOR CATALOGUES.



Vertical Elevator Pump. Horizontal Duplex Pump.

Build for Permanence.
 Soft stone and imitation stone construction are as transient as the old style wooden house. Use Woodbury Gray or Hardwick White Granites and secure permanence for your design.
WOODBURY GRANITE COMPANY,
 Hardwick, Vermont.
 Branch Offices: New York, Chicago, Pittsburg.

HESS MEDICINE SANITARY LOCKER
 CABINET
 The only modern **Sanitary Steel** Medicine Cabinet or Locker.
 Handsome beveled mirror door. Snow white, everlasting enamel, inside and out.
FOR YOUR BATHROOM
 Costs less than wood and is better. Should be in every bathroom.
 Is dust, germ and vermin proof and easily cleaned with warm water.
 Made in four styles and three sizes. **Price \$7.00 and up.** Send for illustrated circular.
HESS, 942 L, Tacoma Bldg., Chicago
 See Our Catalog in SWEET'S Pages 1205-6 and 7.



SPECIFY
EDISON
 PORTLAND CEMENT
 IT IS FINE
 85% THRU 200—98% THRU 100



ORNAMENTS IN STAFF PLASTER AND COMPOSITION FOR INTERIOR EMBELLISHMENT, COMPOSITION AND CEMENT WORK FOR EXTERIOR USE. WE ISSUE TWO VERY COMPLETE AND EXTENSIVE CATALOGS TO ARCHITECTS AND THE TRADE ONLY.
FRANK A. SEIFERT PLASTIC RELIEF CO.
 2623-29 DAYTON STREET, ST. LOUIS

Monarch Metal Weather Strip Co. 
 3959-61 Forest Park Boulevard, St. Louis, Mo.
 SEND FOR DETAILS
Monarch Metal Weather Strips are the only kind that really interlock. They permit the removal of sash.
 Do not require deep grooves, and adjust themselves to all kinds, classes and shapes of windows and doors.



HIGGINS'
 DRAWING INKS
 ETERNAL WRITING INK
 ENGROSSING INK
 TAURINE MUCILAGE
 PHOTO-MOUNTER PASTE
 DRAWING-BOARD PASTE
 LIQUID PASTE
 OFFICE PASTE
 VEGETABLE GLUE, Etc.
 ARE THE FINEST AND BEST GOODS OF THEIR KIND. Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the **Higgins Inks and Adhesives.** They will be a revelation to you, they are so sweet, clean and well put up, and withal so efficient. They are specially adapted for use in Architects' and Engineers' Offices, as well as for general home and office use.
 AT DEALERS GENERALLY
Chas. M. Higgins & Co., Manufacturers
 Branches: Chicago, London 271 Ninth St., BROOKLYN, N. Y.

FRENCH'S
 "Quality First"
CEMENT COLORS
 SUPERIOR—STRONG—SAFE
 Dry Colors for Coloring all cement mixes.
 BLACK—RED—BLUE—BROWN—YELLOW
 Permanent—Easy to Work
 Write for samples and prices
 Manufactured only by
SAMUEL H. FRENCH & CO.
 Established 1844 PHILADELPHIA, PA.

YEAR BOOK

SEASON 1909-1910

SOCIETY OF
BEAUX-ARTS
ARCHITECTS

Containing programs, awards
by the jury and illustrations of
premiated and other designs.

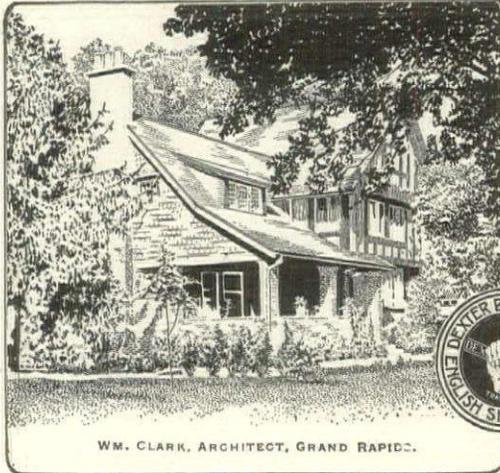
THIS work will be invaluable to the student of Architecture
and of great interest to the man in practice. A limited
edition has been published. To insure a copy before the
edition is exhausted, advance orders should be placed at once.

The work is bound in cloth.
Size of pages and plates, 9 x 12
Price, prepaid, \$4.00

BOOK DEPARTMENT

THE AMERICAN
ARCHITECT

TWO THIRTY-NINE WEST THIRTY-NINTH STREET
NEW YORK CITY



WM. CLARK, ARCHITECT, GRAND RAPIDS.



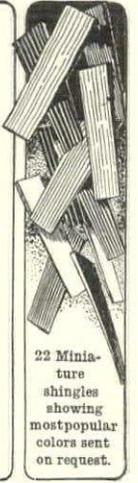
Wood-preserving oils waterproof the shingles and carry the color properly.

Dexter Brothers' English Shingle Stains

are made of pure English ground colors, mixed with pure linseed and other wood-preserving oils—the best shingle preservatives known. That's why they're water-proof—why they prolong the life of the shingles—why the colors last. Dexter Brothers' English Shingle Stains are made in 900 stock colors. Special colors mixed to order without additional cost. We co-operate with the architect in every way. Our booklet gives interesting facts and information, and we gladly furnish additional special information to cover special conditions on request. Ask for our sample miniature shingles.

Dexter Brothers Co. 120 Broad St., BOSTON, MASS. Branch Offices, 1133 Broadway, NEW YORK, N.Y.
 - Makers of Dexter Brothers' Petrifax, a waterproof coating for exterior and interior use on cement, brick, plaster, etc.

AGENTS—H. M. Hooker Co., Chicago; John D. S. Potts, 218 Race St., Phila.; F. H. McDonald, Grand Rapids; F. T. Crowe & Co., Seattle, Spokane, Tacoma, Wash. and Portland, Ore.; M. D. Francis, Atlanta, Ga.; Carolina Portland Cement Co., Birmingham and Montgomery, Ala.; Jacksonville, Fla., Charleston, S.C., New Orleans, La.; F. S. Combs, Halifax, N.S. AND DEALERS.



22 Miniature shingles showing most popular colors sent on request.

OKONITE INSULATED

ELECTRIC LIGHT WIRES

Are pronounced by leading Architects to be SAFE, DURABLE and EASILY ADJUSTED for the inside wiring of PUBLIC and PRIVATE BUILDINGS.

Sole Manufacturers

THE OKONITE CO., 253 Broadway, New York

Central Electric Co., Chicago, Ill.
 Novelty Electric Co., Philadelphia, Pa.

F. D. Lawrence Electric Co., Cincinnati, O.
 Pettingell-Andrews Co., Boston, Mass.



TRADE MARK.

Robbins Electric Co., Pittsburg, Pa.

THE L. SCHREIBER & SONS CO.

STRUCTURAL STEEL — CINCINNATI — ORNAMENTAL IRON

BRANCH OFFICES NEW YORK · CHICAGO · PITTSBURG · ATLANTA · NEW ORLEANS · SAN FRANCISCO · RICHMOND

Raymond Concrete Piles vs. Spread Footings

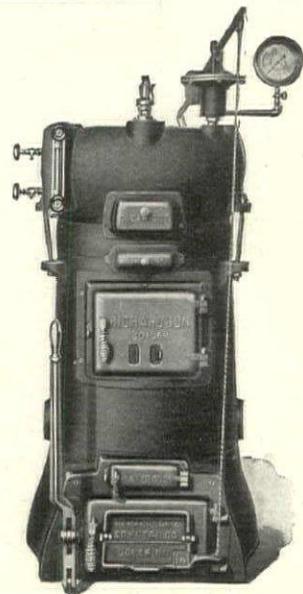
ONE of the latest instances of the growing appreciation by engineers of the superiority of RAYMOND CONCRETE PILES over spread footings is the foundation for the 56-acre plant of the American Sheet & Tin Plate Company, at Gary, Indiana, that we are now building.

SPREAD footings, entailing about 150,000 yards of excavation, were originally specified. RAYMOND CONCRETE PILES are being substituted at a saving of nearly 100,000 yards of excavation and 15,000 cubic yards of concrete. Except for the deep machinery foundations in certain portions of the plant, excavation would have been eliminated almost entirely.

WHILE the spread foundations originally specified would have been expected to show more or less settlement, the RAYMOND CONCRETE PILE foundations substituted will be absolutely settlement-proof.

A COMPLETE description of the advantages offered by Raymond piles, of our methods and their application, together with illustrations of structures built on Raymond piles, and of docks, bulkheads, etc., that we have designed and built, are to be found in our new 164-page catalog. Free on application to any of our offices.

RAYMOND CONCRETE PILE CO.
 NEW YORK and CHICAGO
 PHILADELPHIA BALTIMORE
 ST. LOUIS PITTSBURGH



"Richardson" Boilers

For Steam and Water

Thousands in Use
 Please Everybody

SPECIFIED BY LEADING ARCHITECTS

Richardson & Boynton Co.
 CHICAGO NEW YORK BOSTON



RESIDENCE AT SCARSDALE, N. Y.

W. S. PHILLIPS
Architect

ALL sash cord is labelled, but the label is destroyed when the hank is opened and the identity of the manufacturer is lost. Only SILVER LAKE A gives such long and satisfactory service that we alone among manufacturers print our name on the cord itself.

SILVER LAKE COMPANY
BOSTON, MASS.

Art-Metal  **Bronze-Steel**

In the year 1888 a factory was established which has made the name of Jamestown, N. Y. as celebrated as the historic Va. town of the same name.

ART METAL CONSTRUCTION CO.

are the originators in the adaptation of Sheet Steel for the furnishings of Public Buildings of every character. Their resources are unlimited---Capitalized for \$1,750,000---Factory capacity 7 acres of floor space and employing 1200 skilled mechanics---ARCHITECTS and OWNERS ARE SOLICITED.

Jamestown, N. Y. The Address "Art Metal"



The "GLOBE" Ventilator

IN BRASS, COPPER, GALVANIZED IRON
AND WITH GLASS TOPS FOR SKYLIGHT PURPOSES

SIMPLE SYMMETRICAL STORM-PROOF EFFECTIVE
FOR PERFECTLY VENTILATING BUILDINGS OF EVERY CHARACTER

Smoky Chimneys Cured SEND FOR MODEL AND PAMPHLET **Globe Ventilated Ridging**

MANUFACTURED BY

GLOBE VENTILATOR COMPANY, TROY, N. Y.

"The 'GLOBE' is built on honor and sold on merit."



Plastic Ornaments

WE MANUFACTURE

Ornamental Plaster, Composition Ornaments, Cement Mantels and Garden Furniture, Capitals and Brackets (interior and exterior). Composition and Wood Lighting Fixtures. We have catalogs showing these different lines.

THE DECORATORS SUPPLY CO., Archer Ave. and Leo St., CHICAGO

We have the largest and best equipped manufacturing plant for that purpose in the world

ARCHITECTS, ATTENTION!

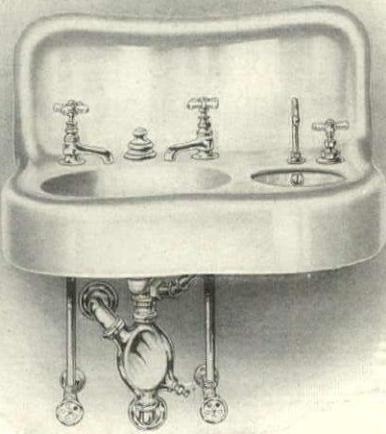


Plate G-194 (Patent applied for)

Here is something you have been looking for a long time, a combination lavatory and dental basin cast integral. Absolutely new and unique, and a fixture that will fill a long-felt want. Furnished with special fittings as shown, which include bi-transit waste, three four-arm china handle and china index compression cocks, supply pipes with wheel handles, flask trap, special waste connection, and flushing fixture for dental basin.

DIMENSIONS		LIST	
Slab	20 in. x 27 in.	Enameled inside, less fittings	\$26.50
Height of back	10 in.	Enameled all over, less fittings	28.50
Depth of apron	5 in.	Fittings as shown and described, complete	27.50
Lavatory bowl 12 in. x 14 in.		If trap is not wanted, deduct	5.00
Dental bowl	7½ in.		

NOTE: With the exception of the trap all the above fittings are made especially for this lavatory and must be furnished. This fixture is fitted up, water turned on and all fittings are carefully tested before shipment.

THE CAHILL IRON WORKS - - - - - **Chattanooga, Tenn.**
 New York Office: 76 W. 36th St. Portland Office and Warehouse: 550 Sherlock Bldg.
 Thos. H. Hutchinson, Mgr. H. A. Heppner & Co., Sales Agents.
 N. Y. Warehouse, 558-560 W. 34th St. Chicago Office: 163 Randolph St.
 Philadelphia Office: 5604 N. 4th St. Harry Verbeek, Sales Agent.
 Russell D. Knight, Sales Agt. Rooms: 1749 Sacramento St.
 San Francisco Office and Display Rooms: 1749 Sacramento St.
 Chas. H. Stanyan, Sales Agent.

“Ask the Organist Who Plays One.”

PIPE ORGANS

For Churches, Concert Halls and Residences
With or Without Our Solo Automatic Player

If tonal effects that “charm” are desired it should be an **AUSTIN**.

It cannot be imitated elsewhere, as we are the inventors and patentees of the famous **Austin Universal Air Chest System**. If unacquainted with it, you will be greatly surprised at the many advantages provided, both tonally and mechanically.

Write for descriptive book, which fully explains our work.

AUSTIN ORGAN COMPANY
 159 Woodland Street HARTFORD, CONN.



IRVINE FLATS, SAN FRANCISCO, CAL.
Medusa White Portland Cement
 used for entire exterior plaster.

Medusa Waterproofing



(Patented Apr. 23, 1907)
 Makes concrete impervious to water and gives absolutely permanent results. Does not affect strength, setting, or color of Portland cement. Not a wash or an experiment.

Write for prices and illustrated pamphlets giving instructions for use.

Sandusky Portland Cement Co.
 SANDUSKY, O.

Also obtain prices on Medusa Gray Portland Cement.

Medusa Products Signify Quality Annual Production, 1,500,000 Barrels.

CUTS
 USED IN THIS
PUBLICATION
 ARE MADE
 by the
MOSS
PHOTO
ENGRAVING CO.
PUCK BUILDING
 295-309 LAFAYETTE ST. COR. HOUSTON
NEW YORK
 TELEPHONE 81 SPRING
 ESTABLISHED 1871

Richmond, Va., August 17, 1910.
SPEAKMAN SUPPLY & PIPE CO.,
Wilmington, Del.

Gentlemen:—

We have been using your showers for eighteen months, and have found them to be first-class and have given perfect satisfaction. We have had during this time 68,964 bathers and we have yet to hear the first complaint.

We think so much of them that if at any time we should have use for more, we will certainly use yours.

Yours very truly,
CHARLES A. HARDWICKE, Supt.,
Branch Public Baths.

This particular Bath House was equipped with Speakman Showers with Non-scalding Regulating Valves.

The above letter is one of many such letters which we have received commending our Shower fixtures.

Catalogue "G" sent upon request

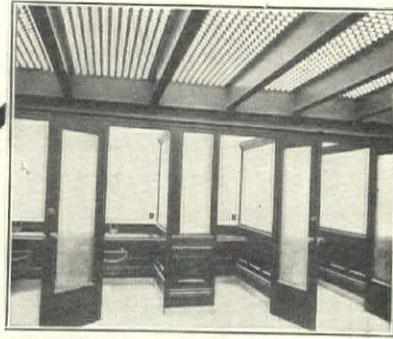
SPEAKMAN SUPPLY AND PIPE CO.

WORKS: WILMINGTON, DEL.

SAN FRANCISCO

NEW YORK

(We are in Sweet's Index)



Berger's Sidewalk Lights, Dime Savings Bank, Brooklyn, N. Y.

Specimen Efficiency

An efficiency that results automatically from the distinctive construction principle of

BERGER'S
Rapidiant **SIDEWALK LIGHTS**

is shown by the above illustration.

The heavily galvanized steel forms are self-centering—no false work is necessary.

The forms remain a permanent part of the system and, with 1/2-inch steel rods, reinforce the construction so efficiently that the strength of this system is extraordinary.

The perfect alignment of the glass, as shown in the above cut, is easily accomplished.

Any concrete or cement worker can easily install the system

Write for our Construction Data and Table of Safe Loads.

THE BERGER MFG. CO., Canton, Ohio

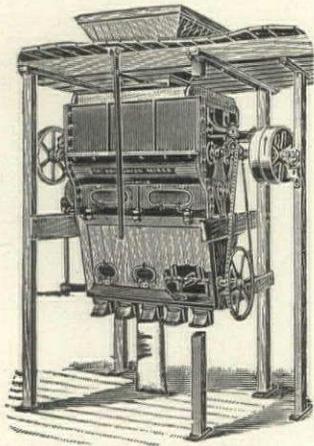
New York Boston St. Louis Philadelphia Minneapolis Atlanta Chicago Kansas City San Francisco

THE MIXER THAT MIXES

hair or fiber with plaster the way it should be done. All working parts and mixing chamber of the

Broughton Mixer

are made of Iron and Steel. Paddles in screw form are placed on two shafts running in opposite directions, lift the material from the bottom of the case and throws it in opposite directions from one end of the case to the other, keeping it in constant motion and obtaining a perfect mixture.



The Broughton Mixers are durable and easy to operate, designed with great care. Duplicate parts can be furnished at any time. Send for booklet.

W. D. DUNNING

231 West Street, Syracuse, N. Y.



HOTEL ASTOR
NEW YORK

FINISHED WITH
RIPOLIN

A Permanent, Beautiful Finish

Made in Holland

RIPOLIN is a pure white Enamel Paint for interior or exterior use. Widely used in the Old World. Specified by many of the leading Architects of this Country.

It is absolutely Permanent. Will never craze, peel or blister. Can be washed without injury. Unaffected by the weather.

30% greater covering capacity than Domestic Paints. Wonderfully elastic. Looks like porcelain.

Hundreds of the best Homes, Hotels, Hospitals, Offices and Public Buildings in this Country are finished with RIPOLIN.

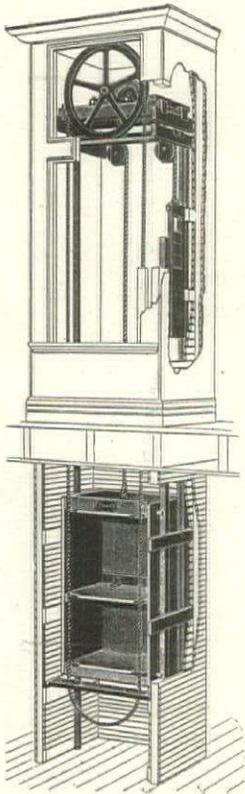
Send for Architects' Book and Proof of Quality.

J. A. & W. BIRD & CO.

77 PEARL STREET } Founded 1837 BOSTON, MASS.

SEDGWICK

Dumbwaiters



Have given perfect satisfaction to Architects all over the United States for the past twenty-five years, because they are superior in principle, design, construction and finish and have stood the test for durability and security.

We make a special study of special conditions.

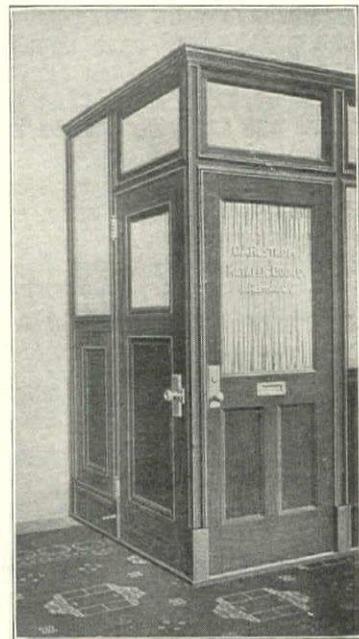
Our experience is at your command.

Write for further information.

Sedgwick Machine Works

126 Liberty Street, New York

DAHLSTROM PATENT HOLLOW SHEET METAL DOORS



We also make

COLD DRAWN MOULDINGS

For Casings, Crown Mouldings, etc. Catalogue showing numerous designs sent upon application

DAHLSTROM METALLIC DOOR CO., Jamestown, N. Y.



SALES

of nearly one-half million barrels of Universal Portland Cement to one railroad in a single year indicate the satisfaction which Universal gives the engineers of this road in their extensive and varied improvements involving every type of plain and reinforced concrete construction.

Universal Portland Cement Co.

Chicago—Pittsburg

Annual Output 8,000,000 Barrels

Statue of Angel Moroni on Mormon Temple,
Salt Lake City

The Perfect Equipment

of the Mullins factory, together with the skill and experience of the Mullins artisans, makes the great line of

Mullins Art Architectural Sheet Metal Work and Statuary

the most comprehensive and beautiful in the country. Each piece is perfectly shaped thus insuring sharp, clean and beautiful effect.

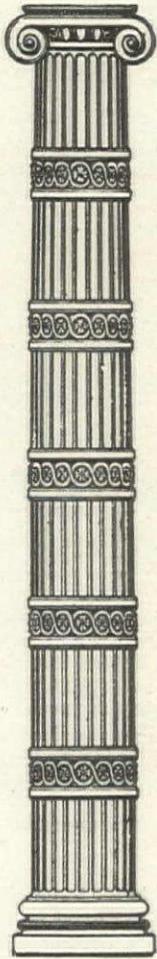
All joints are riveted and soldered, combining strength, durability and smooth finish.

The Mullins Statuary is for Monuments and Buildings—made of Sheet Copper and Bronze, artistic and high class in every respect.

Send for large 120-page catalog of stock designs of Cornices, Friezes, Panels and Ornamental Metal Work. Also ask for separate catalog of Mullins Sheet Metal Statuary—which is as durable and artistic as cast bronze of sculptured work, and costs less. *Please specify the kind of metal work you are interested in and proper catalog will be sent.*

W. H. Mullins Co. 206 Franklin Street
SALEM, OHIO





The
**Northwestern
 Terra Cotta Co.**
 CHICAGO
 manufactures the
 Highest Grades of
**ARCHITECTURAL
 TERRA COTTA**
 ENAMELED
 WORK
 A SPECIALTY

**Atlantic
 Terra Cotta Company**

1170 Broadway, N. Y.

Architects should insist upon close fitting Architectural Terra Cotta and embody "**ground joints**" in their specifications.

The Atlantic Company makes a practice of grinding joints—invariably on lower story and entrance work.

Although grinding frequently accounts for the difference between good and poor Terra Cotta the practice is far from general among manufacturers; few have the necessary equipment.

Southern Branch
Atlanta Terra Cotta Company
 East Point, Ga.



MEURER'S METAL SPANISH TILE
 IN ALL METALS

BEAUTIFY any building on which they are used. Artistic in design, handsome, durable, never leak. Made from Roofing Tin and galvanized after being formed.

A PERFECT ROOF

HAVE been used on some of the largest and best known buildings in the country.

Write for Booklet showing Starting or Eave Tile, Hip Tile, Ridge Tile, Flashing Strip, etc.

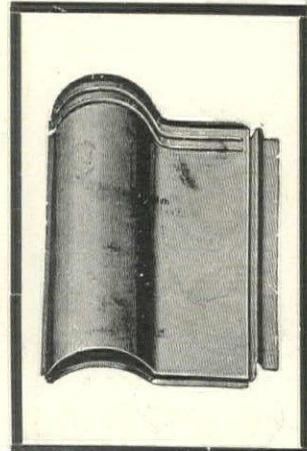
MEURER BROS. CO.

Brooklyn, N. Y.

New York City
 Kansas City

Denver
 San Francisco

Salt Lake City
 Seattle





Helps you Sell or Rent

It is conveniences that count. Add to the lighting, heating and plumbing systems in your houses a cleaning system of equal efficiency and convenience and you'll have more people after them and at better prices. Ask now about the

TUEC-170 STATIONARY Air Cleaning System

The illustration shows how it is installed. To clean any room attach end of hose to pipe-opening on that floor, press the electric button and a suction of 170 cubic feet or 300,000 cubic inches per minute draws in all the coarse dirt and all the fine dust from carpets, curtains, walls, etc., and all the germ-laden air.

Down the pipe it goes to the cellar, the dirt remaining in the machine, the tainted air passing through the chimney flue outdoors. Complete with aluminum tools for every purpose.

Not a rotary or diaphragm pump system but a powerful centrifugal fan protected by patents owned by The United Electric Co. No complicated parts to make trouble or wear out. Absolutely guaranteed.

Easy to install in any house now built or under construction. A great investment—increases the value of your property far more than the cost of the system.

You should know all about it. Takes a booklet to tell. Write today.

THE UNITED ELECTRIC CO., 1 Hurford St., Canton, O. Agencies in all large cities.

We make larger sizes of the TUEC Air Cleaning Machines for hotels, schools, apartment houses, public buildings, etc. Write for further information.



The "NEVER SPLIT" Is Solid All The Way Around

as each joint is made as strong as the straight-grained hardwood pieces by the use of

BOLTS, NUTS AND WASHERS

after ends of pieces have been tongued, grooved and glued. These bolts permanently clamp pieces together.

The "NEVER SPLIT"
is guaranteed for five years not to split or spread at joints and its construction is a guarantee in itself.



Consider its construction and fine piano finish—then decide whether you know of a better seat.

Write for small model seat—it shows construction

Costs no more than ordinary seats

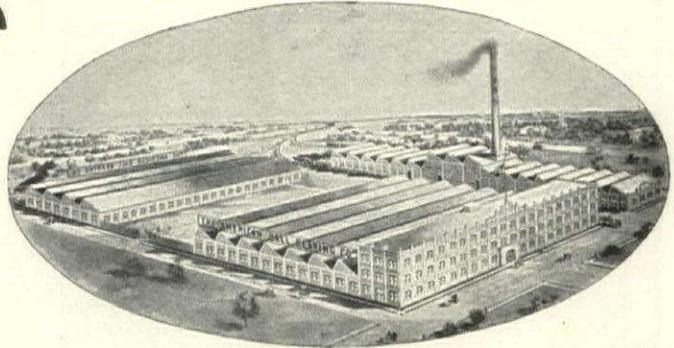
NEVER SPLIT SEAT CO.
EVANSVILLE, IND., U.S.A.

Protect the Buildings at the Top

See to it that the roof is as permanent as the foundation, because the roof is just as important.

Specify a roof that cannot leak, no matter what the climatic conditions—that cannot burn under any kind of a fire test—that will keep your buildings cool in summer and warm in winter.

The only roofing that fulfils these requirements is



American Ball Bearing Co., Cleveland, O.
Covered with 100,000 square feet of J-M Asbestos Roofing

J-M Asbestos Roofing

Made of Asbestos (stone) fibre and genuine Trinidad Lake Asphalt, it is practically indestructible. It is as permanent as the rock foundation you build on, and defies weather, time, fire, gases, chemical fumes, etc.

No skin coat of paint or gravel surface to wear away. No painting bill or repair bill.

Its first cost is the only cost. See the blow-torch test illustrated below. Any other ready roofing would burn like tinder in a few minutes if subjected to such a test.

Ask us for a piece of Asbestos as it comes from the mines. Write our nearest branch for sample and Catalog 303.



In this test the flame of a powerful blow-torch was placed within two inches of J-M Asbestos Roofing. At the end of fifty minutes the roofing was not burned or injured, being only slightly blackened with smoke.

H. W. JOHNS-MANVILLE CO.

Manufacturers of Asbestos and Magnesia Products

ASBESTOS

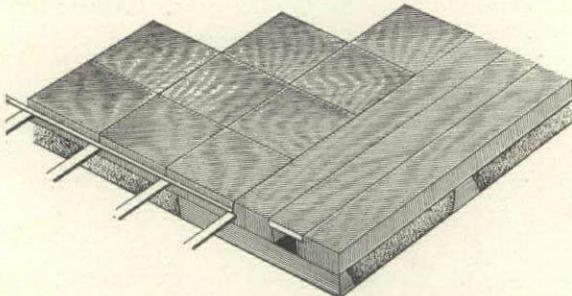
Asbestos Roofings, Packings, Electrical Supplies, Etc.

Baltimore	Chicago	Detroit	Los Angeles	New Orleans	Pittsburg	St. Louis
Boston	Cleveland	Kansas City	Milwaukee	New York	San Francisco	(1272)
Buffalo	Dallas	London	Minneapolis	Philadelphia	Seattle	
Toronto, Ont.	For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.			Winnipeg, Man.	Vancouver, B.C.	

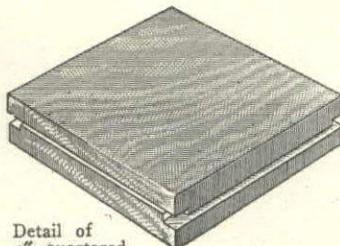
STEEL-WOVEN OAK FLOORING

FOR FIREPROOF BUILDINGS

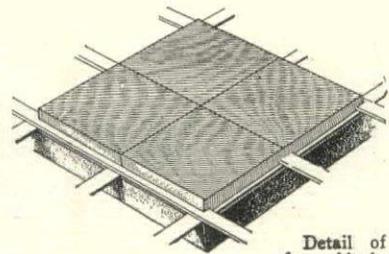
No big beams are inserted in the concrete. No sticking of blocks to concrete and tearing loose with change of season. The floor lies solidly of its own weight. In case of swelling, owing to dampness, or even flooding with water, the floor swells as a whole and takes up the compression space in the border. If the floor shrinks again after such an accident the blocks shrink individually and the shrinkage is divided up so many times that no cracks are seen. In extreme cases the entire floor can be keyed up from the compression spaces.



Showing two border and wall strips with bridge over compression space and short dovetailed pieces of wood to which border strips are lightly nailed.



Detail of 4" quartered white oak block.



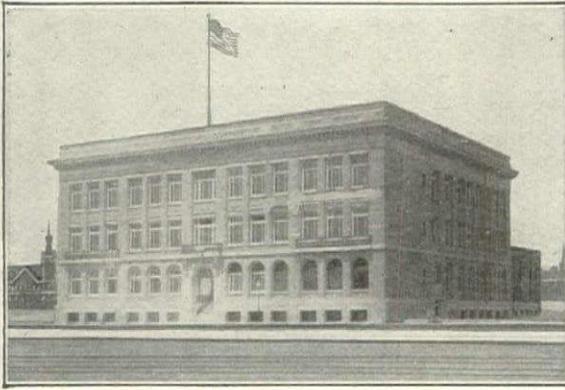
Detail of four blocks showing steel weave.

The floor in the Baltimore Bar Library was flooded for forty-eight hours during the great fire, and is now as good as ever. The floor in St. Luke's Hospital has stood the test of years. Several carloads laid in New York Custom House.

We manufacture parquetry and ornamental hardwood flooring of imported and domestic woods, making a specialty of working to architects designs. We have our own timber, saw mills, dry kilns and factories, and control every step of its manufacture.

SEND FOR PARQUETRY CATALOGUE IN ACTUAL COLORS

WOOD-MOSAIC COMPANY - - - - **ROCHESTER, N. Y. NEW ALBANY, IND.**



NEWTON J. THARP COMMERCIAL HIGH SCHOOL,
SAN FRANCISCO, CAL.

TOILET ROOMS EQUIPPED WITH
MAXCO SEAT-OPERATING CLOSETS,
WITH RAISED REAR VENT BOWLS
(ABSOLUTELY SANITARY)



**MAXCO CLOSETS ARE
IN USE IN ALMOST
EVERY STATE IN THE
UNION.**

(Over 200 in San Francisco
Schools alone.)

WRITE FOR CATALOG H.

WHAT A PLEASURE IT IS

to enter the toilet rooms of schools, factories, hotels, hospitals, Y. M. C. A. buildings, etc., and find every closet in perfect order—no leaks—no odors—no soil—no unsanitary conditions of any kind.

MAXCO SEAT-OPERATING CLOSETS

are designed especially to meet this need—and to be a credit to architect, plumber, owner—and ourselves.

For Sale by 40 Jobbers of Plumbing Supplies

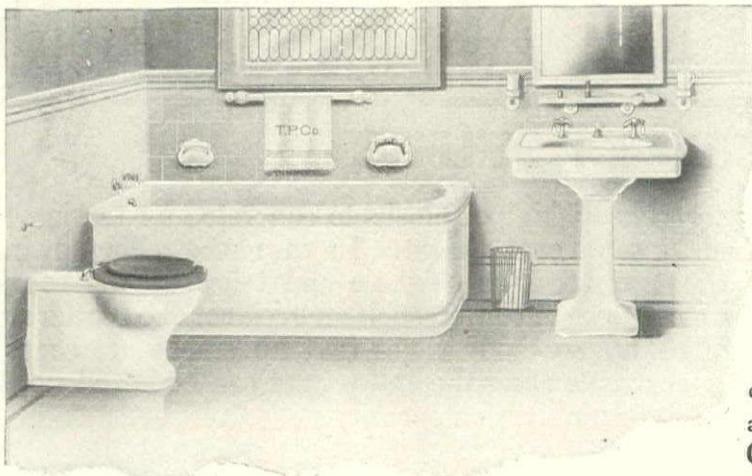
MANUFACTURED BY

CLIMAX SANITARY COMPANY

338 GUOIN STREET, DETROIT, MICH.

REPRESENTATIVES:

CHAS. W. BADGER, 428 Ashland Block, Chicago, Ill.
EDWARD L. CULIN, Hanford Block, San Francisco, Cal.
JOHN G. MONROE, 313-15 Bergen Ave., Jersey City, N. J.
GEORGE A. TAYLOR, John Hancock Bldg., Boston, Mass.
P. J. ADAMI, 3952 Page Boulevard, St. Louis, Mo.



Specialists in Sanitary Pottery

THE TRENTON POTTERIES COMPANY

Makers of Superior Quality Porcelain Bathtubs, Lavatories, Closets and all Bathroom Accessories from China only.

WHEN you strike a knotty problem of law you call upon a lawyer specializing on real estate, corporation, or whatever it may be. You consult the man best posted and best able to give you the necessary information.

In specifying fixtures for the bathroom or toilet, call on The Trenton Potteries Company, whose facilities and long experience in the manufacture of sanitary pottery only, have enabled us to secure and maintain the reputation as makers of superior quality ware.



*The Trenton
Potteries Company*

Trenton, New Jersey, U. S. A

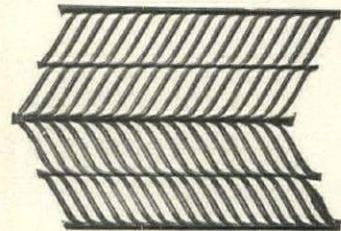


Herringbone Ingot Iron Lath



Ceiling Lath—Patented
STYLE "A."

For Lasting Ceilings
For Permanent Partitions
For Outside Walls



Siding Lath—Patented
STYLE "BB."

HERRINGBONE INGOT IRON LATH IS RUST-PROOF AND FIRE-PROOF

It requires no lapping—each yard of lath covers a yard of wall.

It is made of AMERICAN INGOT IRON which is pure iron—clarified to those impurities which make steel and cheaply prepared iron a quick prey to the corrosive effects of acid plasters, gases or moisture in the air and the damaging influences of salt atmospheres.

HERRINGBONE INGOT IRON LATH

is the most economical lath when considering the cost of the building as a *whole*—for it permits the wide placing of studding, and can be easily handled by *one* man where other lath requires the labor of *two*.

Send for a sample of **HERRINGBONE INGOT IRON LATH**—place the sample in a solution of Sulphuric Acid, and note its resistance to all corrosion. Place a sample of steel lath in the same solution, and watch its rapid disintegration.

Sample for this test and our Architect's Pamphlet sent free, postpaid, on request. We want you to investigate, at our expense, the endurance, rigidity, and non-corrodible qualities of

HERRINGBONE INGOT IRON LATH

Manufactured Exclusively by **The General Fireproofing Company,** YOUNGSTOWN OHIO

PYROBAR PLASTER BLOCKS

SUPERIOR TO ALL OTHERS



FIREPROOF

SOUNDPROOF

STAINPROOF

TESTED AND APPROVED BY
NATIONAL BOARD OF FIRE UNDERWRITERS

WRITE US FOR PARTICULARS.

UNITED STATES GYPSUM COMPANY

New York Cleveland Chicago Minneapolis Kansas City San Francisco

Roof Lighting

Various applications of "ANTI-PLUVIUS" PUTTYLESS SKYLIGHTS have been made on Industrial Buildings. We have issued pamphlets descriptive of some of the best of these and will send them for your information on request.

Monitor Ventilation

Ideas differ as to the type of sash that permits the best ventilation and is more near weather-proof. The "STRAIGHT-PUSH" SASH OPERATOR can be applied to all types and we may have some information that would help you to determine the kind best suited to your conditions.

Our business is the furnishing of "ANTI-PLUVIUS" SKYLIGHTS, "STRAIGHT-PUSH" and "LOVELL" SASH OPERATORS. We have gathered together much information in the course of many years furnishing these products and results achieved are available for your information and profit. We would be glad to hear from you if contemplating additional buildings or extensions.

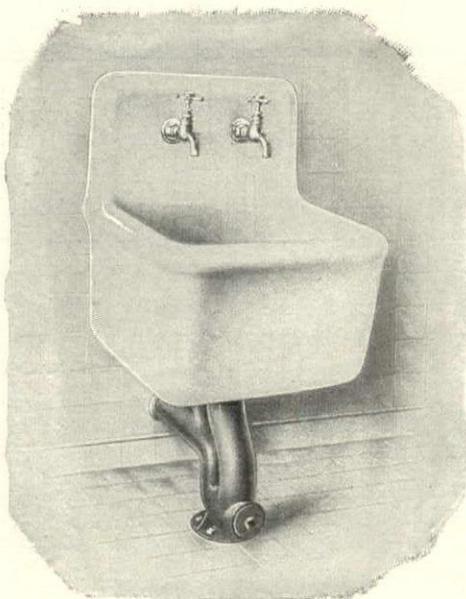
THE G. DROUVE CO.

Chicago, 40 Dearborn St.

Bridgeport, Conn.

Boston, 1150 Tremont Bldg.

Monument Porcelain Slop Sink



C-1024

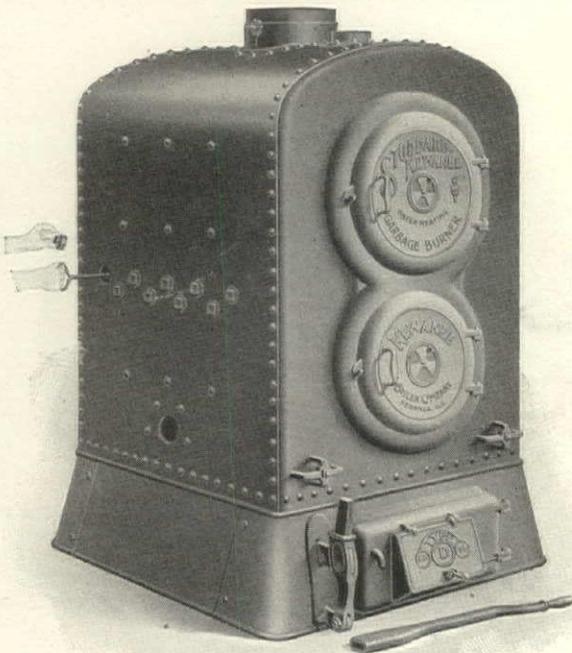
Illustrating one of our several designs of Slop Sinks

MONUMENT PORCELAIN SLOP SINKS are fast superseding all other types, on account of their durability and sanitary features. Also made in Columbian or Buff Ware.

Advance Edition to Catalogue "D" now being distributed. Write us if you have not received a copy.

The MONUMENT POTTERY COMPANY, TRENTON, N. J.

MANUFACTURERS OF PLUMBING GOODS EXCLUSIVELY



**GOOD-BYE GARBAGE MAN!
THE STODDARD-KEWANEE
GARBAGE BURNER
Sounds his Doom.**

The Stoddard-Kewanee Water Heating Garbage Burner is the only perfected device that combines a highly efficient water heater with a private garbage disposal plant in one apparatus.

It provides the cheapest way of heating water in large quantities and furnishes a practical and economical means of destroying mixed garbage, hospital refuse, household and other accumulated rubbish when and where it is produced.

It evaporates and converts all waste matter into a combustible condition, assists in heating water for domestic purposes, and reduces it to an odorless ash, without emitting offensive odors or creating a nuisance, or maintaining an insanitary condition.

The Old Man Behind the Boiler is the fellow who builds these Garbage Burners, and will tell you all about them. There are no flies on him.

Send for Catalogue No. 55.

KEWANEE BOILER COMPANY

KEWANEE, ILLINOIS

CHICAGO ST. LOUIS KANSAS CITY

Yellow Pine Factory Flooring

is suitable for factory, store, warehouse and loading platforms; or for any other floor where hard service is demanded.

Good sound common Yellow Pine, 3x3, 4x4 and 4x6, surfaced and jointed, laid with the Edge Grain of the timber to the surface, will insure a floor that is practically indestructible, will not sliver under wear, and will ordinarily outlast the rest of the building.

An Unchallenged Economical and Enduring Floor Surface for Heavy Mill Construction

Beside being durable and practical Yellow Pine factory flooring of such dimensions has strong fire-resisting qualifications. It is also recognized as being much easier on the feet of the workmen, and on the trucks and packages handled by them, than concrete floors.

Your first outlay is your only floor expense; and that is less than for other available wood or cement floors; although Yellow Pine floors will outlast them.

It has been for years the standard factory flooring specification by architects and mill engineers, one factory and warehouse recently built requiring over 817,000 feet of Yellow Pine for its floor surface.

For the laminated floor, thinner Yellow Pine factory flooring is used as the base; 2x6, 2½x6 and 3x6; tongue, grooved and beaded, or grooved for splines. The narrower widths and thinner depths of Edge Grain Yellow Pine flooring are used as a top floor, being laid diagonally across the surface.

*For any information regarding
Southern Yellow Pine, address*

**Yellow Pine Manufacturers'
Association**

707 Wright Bldg. ST. LOUIS, MO.

WHITE

INTEGRAL SUPPORTS

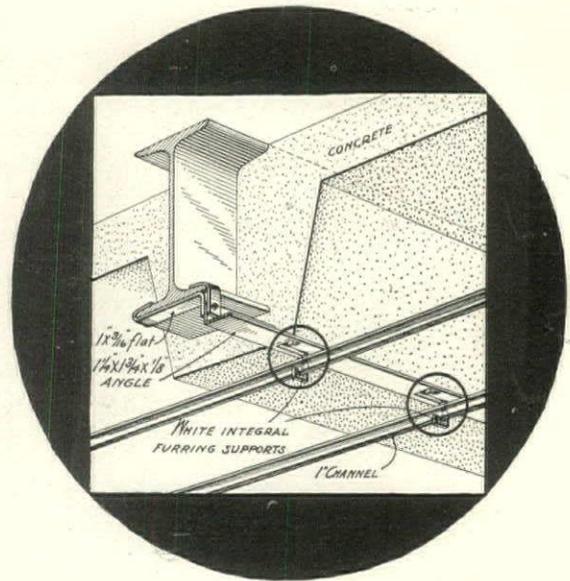
for

FURRING BARS

PAT. NOV. 24, 1908

What they *ARE*

WHITE *INTEGRAL* SUPPORTS for furring bars are hooks or stirrups that are *punched out*, at *regular intervals*, of the *main furring angle*.



What they are *FOR*

WHITE *INTEGRAL* SUPPORTS for furring bars are designed to act as *rigid* and *permanent supports* for the cross furring bars of ceilings.

What they *EFFECT*

WHITE *INTEGRAL* SUPPORTS for furring bars offer just as *permanent* and *dependable a support* as is secured in the old and excellent angle-to-angle bolted ceilings. At the same time they *cost no more* than the unreliable method that has of late years crept into use of securing furring bars by means of more or less variable individual clips.*

What they *INSURE*

A glance at the accompanying sketch will readily show that nothing but an *absolutely level ceiling* can be obtained when *WHITE INTEGRAL SUPPORTS* for furring bars are specified and insisted upon.

WE WILL take pleasure in sending an illustrated booklet that tells the whole story, free upon request.

WHITE FIREPROOF CONSTRUCTION CO.

Concrete Fireproofing
Concrete Stairs
Metal Furring
and
Lathing



NEW YORK
PHILADELPHIA
ATLANTA
MONTREAL
TORONTO

*Metal furring and lathing is an important part of our business as well as concrete fireproofing. The construction details of the former have never received much attention in architects' specifications. We consider them so important that we are *SYSTEMATICALLY ADVOCATING* certain methods that practice has shown us to be the best.

Nine Recent Decisions in Vacuum Cleaning

- 1 May 31, 1910: U. S. Circuit Judge Kohlsaot, sitting in Chicago, granted a decree against Streeter Brothers, forbidding them from using a Vacuum Wall Brush which infringes the McCrum-Howell Patent. This suit was brought under one of the eighty-five vacuum patents which the McCrum-Howell Company controls.
- 2 July 7, 1910: U. S. Circuit Judge Kohlsaot, sitting in Chicago, granted a restraining order against the Pope Automatic Merchandising Co., and Clarence R. Pope, forbidding the manufacture and sale of the "Pope Electric Cleaner."
- 3 July 15, 1910: U. S. District Judge Carpenter, sitting in Chicago, after a full day's hearing, denied the motion of the Pope Automatic Merchandising Co., and Clarence R. Pope, to vacate Judge Kohlsaot's restraining order.
- 4 July 20, 1910: U. S. Circuit Judge Kohlsaot, sitting in Chicago, after a full hearing, granted the injunction asked against the Pope Automatic Merchandising Co., and Clarence R. Pope, manufacturers of the "Pope Electric Cleaner."
- 5 July 22, 1910: U. S. District Judge Morris, sitting in Duluth, granted a restraining order against the St. Paul Electric Co., and B. B. Downs, forbidding the manufacture and sale of the "Downs Electric Cleaner."
- 6 July 26, 1910: U. S. District Judge Amidon, sitting in Minneapolis, after a full hearing, granted the injunction asked against the St. Paul Electric Co., and B. B. Downs, manufacturers of the "Downs Electric Cleaner."
- 7 August 3, 1910: U. S. District Judge Denison, sitting in Grand Rapids, granted a restraining order against the Menominee Electric Co., forbidding the manufacture of Suction Cleaners in imitation of the **"RICHMOND"** Suction Cleaner.
- 8 August 16, 1910: U. S. District Judge Sanborn, sitting in Chicago, granted a decree against Streeter Brothers, users of a plant installed by a California company, enjoining the use of that plant because it infringes the Matchette Patent on Automatic Vacuum Control, now owned by the McCrum-Howell Co.
- 9 August 18, 1910: U. S. Circuit Judge Kohlsaot, sitting in Chicago, granted the Pope Automatic Merchandising Co., and Clarence R. Pope, permission to dispose of 1000 cleaners on hand *only on condition that a \$20,000 bond be given to protect The McCrum-Howell Co., and that each machine be plainly marked, "Not the Richmond Suction Cleaner manufactured by the McCrum-Howell Co."*

The McCrum-Howell Co., at a large expenditure, has brought together, under one control, all of the important Vacuum Cleaning patents.

Thus enabling the public, *for the first time*, to obtain in a single system all of the ingenuities of many inventors.

WARNING

All persons are warned that henceforth all authorized stationary vacuum cleaning plants will bear The McCrum-Howell Company license plate. Systems offered without The McCrum-Howell Company license are infringements and will subject not only the makers thereof but also the purchasers and those who use them to damage suits, which in all cases will be promptly instituted. Please be sure to look for The McCrum-Howell Company license plate, which is to be found in each case on the vacuum producing apparatus.

THE McCRUM-HOWELL Co.

GENERAL OFFICES:

Park Ave. and 41st St., New York City

Branches and Agencies in All Cities

MANUFACTURERS OF

RICHMOND Heating Systems—**RICHMOND** Bath Tubs, Lavatories and Sanitary Plumbing Devices—**RICHMOND** Concealed Transom Lifts—**RICHMOND** Suds Makers—**RICHMOND** Suction Cleaners—**RICHMOND** Vacuum Cleaning Systems

FIVE PLANTS: { One at Norwich, Conn.—Two at Uniontown, Pa.—
One at Racine, Wis.—One at Chicago, Ill.

Notice to Architects

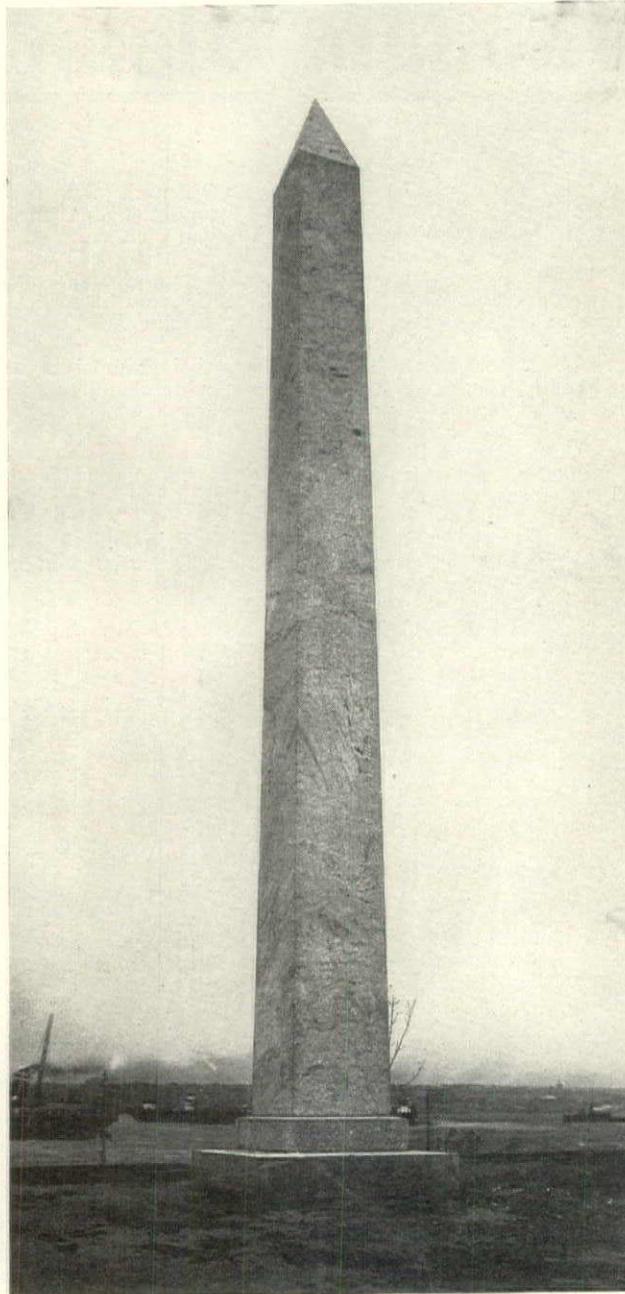
Architects and Engineers are invited to make free use of our engineering department in solving vacuum cleaning problems. We do not guess at any requirements—having a system of accurate tests for all machines. You are invited to visit our Department of Physical Research at the New York office and make your own tests.

BRANFORD SYENITE

The
Favorite
Granite in
Monumental
Work

Retains
The
Highest
Polish

Has been selected for the pedestals of the most prominent statues unveiled during recent years such as Frederick the Great, Washington, D.C.; Wm. McKinley, Adams, Mass.; Gen. William T. Sherman, Central Park, New York; Gen. Joseph Hooker, State House Grounds, Boston, and George F. Hoar, City Hall Park, Worcester, Mass.



Harmonizes
Well
with
Statuary
Bronze

*The Limit in Size
Is Fixed Only by
Transportation
Facilities*

Polished shaft in Battle Monument, West Point, 42' 6" high, 6' 0" in diameter. Obelisk at Sault Ste. Marie, Michigan, 45' 0" high, 4' 6" x 4' 6". Both these shafts are monoliths.

**For Building
and Monumental
Work It Has
No Equal**

Branford Syenite was used in The Leeds Monument, Richmond, Ind.; Lee Mausoleum, Hyde Park, N. Y.; Armour Mausoleum, Woodlawn, N. Y.; Batcheller Mausoleum, Saratoga Springs, N. Y.

COMMEMORATIVE MONUMENT
Sault Ste. Marie, Michigan
Commemorating the fiftieth anniversary of the opening of
St. Mary's Falls Canal
McKim, Mead & White, Architects
Peter White, Horace M. Oren, Charles Moore, Lake Superior
Semi-Centennial Commissioners
This shaft is one block of Stony Creek Granite
Quarried, cut, and set in place by The Norcross Brothers
Company

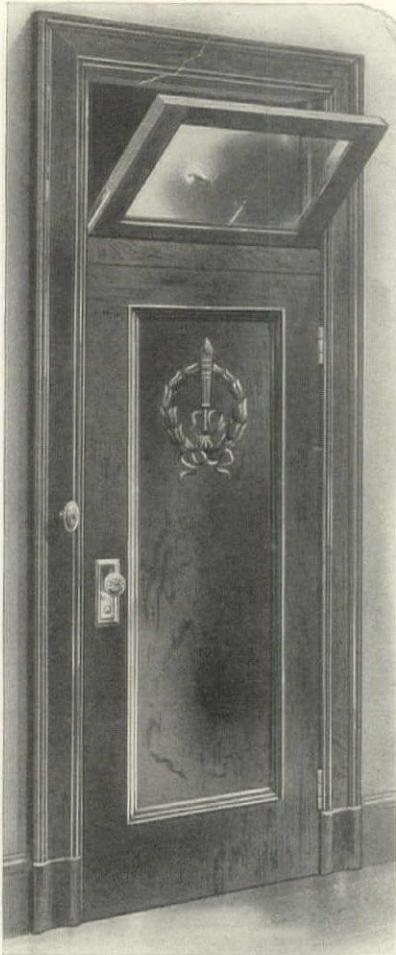
Send for the above-mentioned monuments in handsomely illustrated portfolio.

BRANFORD SYENITE QUARRIES

General Contractors

160 FIFTH AVENUE, NEW YORK

The "RICHMOND" Concealed Transom Lift



"Simply Turn the Knob"

**In a Class
By Itself.**

This new device marks an epoch in the manufacture of fixtures for the mechanical equipment of modern buildings, being the first and only concealed contrivance yet devised that will successfully and easily operate transoms.

**Invisible
and
Compact.**

All parts except only the operating knob, are concealed within the door trim—the device being installed upon the back of the door jamb before the trim is applied. It is light, compact and operates easily, noiselessly and surely.

**Simple to
Operate.**

To open or close transom to any required angle, simply turn the knob on the door trim, and when the required angle is reached, let go, and the transom stops, and cannot be moved until the knob is again turned. No locks or hinges are required to hold the transom, the device itself serving every function required.

**Scientific
Principles.**

The "RICHMOND" Concealed Transom Lift is constructed in accordance with important scientific principles. It is positive in action and contains but few joints or contacts. The different parts work together smoothly and it is practically impossible for it to get out of order—no danger of rods slipping or cogs failing to turn as sometimes happens in the old style appliances.

**Convenient
For
Operator.**

Think of the convenience of being able to move the transom to any desired angle by a simple turning of a knob within easy reach. Compare this with the clumsiness, unreliable and unsatisfactory working of the usual style of transom fixture.

**For all Size
Transoms.**

The "RICHMOND" Concealed Transom Lift will operate such sized transoms as are used above doorways in hotels, office buildings, apartments, schools, etc. A Giant Pattern Device is made for transoms over entrance doors or casement windows.

Easily Set.

The device leaves our factory completely assembled except for the pivot parts which are placed in jamb and ends of transom. These parts are very simple and easy to attach and the installation requires less work and time to install than the ordinary exposed rod.

An interesting descriptive booklet will be sent upon request.

THE M^C CRUM-HOWELL Co.

General Offices Park Ave. & 41st St., New York City

Branches and Agencies in All Cities

Manufacturers of RICHMOND Heating Systems. RICHMOND Bath Tubs, Lavatories and Sanitary Plumbing Devices. RICHMOND Concealed Transom Lifts. RICHMOND Suds Makers. RICHMOND Suction Cleaners. RICHMOND Vacuum Cleaning Systems.

Five Plants: One at Norwich, Conn.; Two at Uniontown, Pa.; One at Racine, Wis.; One at Chicago, Ill.

If it's "RICHMOND" it's right

RICHARDSON FIRE PROOF DOORS

"Make each room a separate building"



OLD COPPER ENTRANCE, COLUMBIA SAVINGS BANK
Shand and La Faye, Architects, Columbia, S. C.

We work to **Architects' details** in **Copper or Bronze Covered** wood work for **Entrances** for **All Classes of Buildings**. Working details will be submitted from sketches or elevations.

Richardson Standard Doors are recommended by the National Board of Underwriters for **Corridor** and **Communicating Doors** for Office Buildings, Theatres and Buildings of like nature.

REPRESENTATIVE IN PRINCIPAL CITIES

Thorp Fire Proof Door Co.

Minneapolis, Minn.

THE CHEAPEST REINFORCEMENT— AND BEST!

The superiority of the Kahn Trussed Bar has never been questioned, so that we can say "cheapest" and be understood. Increased facilities and improved machinery enable us to sell Kahn Trussed Bars at a price which literally compels you to buy them.

Forget every admitted advantage of the Kahn Trussed Bar—consider it strictly from a dollars-and-cents standpoint, and you will find that its use actually *saves you money*. IN SIMPLE PLAIN ENGLISH: WE HAVE THE CHEAPEST BAR ON THE MARKET AND WE ARE READY TO PROVE IT.

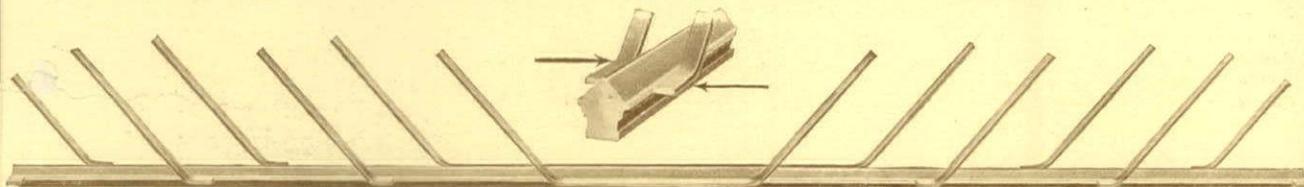
Kahn Trussed Bars save steel, because the shear members are formed from the flanges of the main bar which are ordinarily wasted, and thus do away entirely with the expense of loose stirrups.

Kahn Trussed Bars save labor of installing many loose bars, because the shear members and main bar are handled as one piece.

Kahn Trussed Bars safeguard your structure, because the rigidly connected shear members make its strength independent of the adhesion of the concrete, which may be destroyed by fire, shock or careless workmanship.

Kahn Trussed Bars make beams 20 per cent. stronger than where loose stirrups are used, as proven by University Tests.

INSIST ON RIGID CONNECTION OF SHEAR MEMBERS



KAHN TRUSSED BARS

Use your own standard to measure us by: high quality, low price, prompt shipment, engineering service, long experience, extensive use, etc.; convince yourself of the absolute facts. Whether you use one hundred pounds or a thousand tons, you must be interested in our proposition. Whether you do your own designing or want the Kahn System engineers to do it for you, we are ready with the proofs

Kahn System Products cover the concrete field completely:
HY-RIB, a self centering reinforcement for Floors, Walls, Roofs, Partitions, Ceilings.
RIB METAL, for Slabs and Conduits.
BUILT-UP-COLUMN HOOPING.
CUP BARS, Bent or Straight.
RIB LATH and RIB STUDS, for Plaster and Stucco.
UNITED STEEL SASH, for Fireproof Windows.
TRUS-CON PRODUCTS, for Waterproofing and Finishing Concrete.

Our engineers will advise and cooperate with you in every way to secure the best construction at the lowest possible cost. Write us or call upon one of the men listed below. Catalogues, estimates and suggestions *free*.

TRUSSED CONCRETE STEEL COMPANY 568 Trussed Concrete Building DETROIT, MICHIGAN

ATLANTA, GA., Roelker & Lee, 607 Rhodes Building
 BALTIMORE, MD., Layton F. Smith, 403 Wilson Building
 BIRMINGHAM, ALA., E. L. Penruddocke, 1201 Brown-Marx Building
 BOSTON, MASS., H. P. Converse & Co., 88 Broad Street
 BUFFALO, N. Y., F. R. Swift, 369 Pearl Street
 BUTTE, MONT., Nelson & Pederson
 CHICAGO, ILL., A. K. Adler and V. L. Page, Bedford Building
 COLUMBUS, OHIO, William Piez, 616 Col. Sav. and Trust Bld.
 DALLAS, TEX., E. S. Thayer, Terminal Building
 DENVER, COLO., G. W. Phillips, 414 Majestic Building
 DETROIT, MICH., Home Office, Trussed Concrete Building
 EL PASO, TEX., E. E. Neff Co.
 HOUSTON, TEX., Browne Builders' Supply Co., Inc., 810 Willows Street
 INDIANAPOLIS, IND., C. B. Mayer, 321 Board of Trade Bld.
 KANSAS CITY, MO., Louis Baum, 615 Bryant Building
 LANCASTER, PA., J. H. Wickersham
 LOS ANGELES, CAL., J. E. Heber, 703 Central Building



LOUISVILLE, KY., Craven & Knighton, 133 Sixth Street
 MILWAUKEE, WIS., I. S. Leland, 733 Wells Building
 NEW ORLEANS, LA., Chambers-Morris Co., 215 Godchaux Bld.
 NEW YORK CITY, Hermann Fougner, 25 Madison Square N.
 PITTSBURGH, PA., Irvin and Witherow, 212 Keystone Bldg.
 PORTLAND, ORE., J. A. Currey, 1009 Board of Trade Building
 RICHMOND, VA., Roelker & Lee, State Bank Building
 ROSWELL, NEW MEXICO, Reed & Wilson
 ST. LOUIS, MO., A. J. Widmer, 843 Century Building
 ST. PAUL, MINN., A. H. Schuett, 416 Pioneer Building
 SALT LAKE CITY, UTAH, The Walker Co., 427 Walker Block
 SAN FRANCISCO, CAL., Felix Kahn, 304 Macdonough Bld.
 SEATTLE, WASH., A. T. Nelson, 14 Downs Building
 SYRACUSE, N. Y., Paul C. Nugent, 417 University Place
 UTICA, N. Y., G. W. Thompson, 91 Utica City Nat. Bank Bld.
 YOUNGSTOWN, OHIO, Factory
 CANADA, Trussed Concrete Steel Co., Ltd., Walkerville, Toronto, Montreal, Winnipeg, Vancouver.
 Sales agents in many other cities.

Get this Book from the
ATLAS CEMENT LIBRARY



"Concrete Houses and Cottages"

There are two volumes, one showing small houses and one showing large houses. Each has over a hundred illustrations, with floor plans; all the houses shown are built of concrete in some form. The price is \$1.00 per volume.

Other books in the Atlas Cement Library:

- Concrete Construction about the Home and on the Farm, Free
- Concrete in Highway Construction - - - \$1.00
- Concrete in Railroad Construction - - - 1.00
- Reinforced Concrete in Factory Construction (delivery charge). 10
- Concrete Cottages, Free
- Concrete Garages, Free

If your dealer cannot supply you with Atlas, write to

THE ATLAS PORTLAND CEMENT CO., DEPT. D, 30 BROAD STREET, NEW YORK

Largest productive capacity of any cement company in the world. Over 50,000 barrels per day.

A concrete house means a permanent home; one that is fire-proof, vermin proof, sanitary and economical to maintain. It offers far greater possibilities in architecture than any other material.

In connection with your consideration of concrete as a building material, fix this truth in your mind:

ATLAS PORTLAND CEMENT
MAKES THE BEST CONCRETE

Atlas Portland Cement is a Portland Cement of absolute purity and unvariably uniform quality. There is but one grade of Atlas—the best—the same for everybody. It is made from genuine Portland Cement Rock. It contains no furnace slag. It is the standard brand—the brand that insures successful concrete construction—the brand that the Government is using in building the Panama Canal.

WE ALSO MANUFACTURE STAINLESS
ATLAS-WHITE PORTLAND CEMENT
FOR DECORATIVE PURPOSES



NONE JUSTAS GOOD



AYMAR EMBURY II
ARCHITECT

THE INGHAM SHOWER MIXER
and its perfect control of water temperature is fully described in booklet
"THE LUXURY OF SHOWER BATHING"
which will be sent on request.
THE IMPERIAL BRASS MFG. CO.
441 SO. JEFFERSON ST. CHICAGO, ILL.

John J. Cone A. W. Fiero Robert W. Hunt Jas. C. Hallsted D. W. McNaugher
Robt. W. Hunt & Co.
90 West St. New York 1121 The Rookery Chicago Monongahela Bank Bldg. Pittsburgh 425 Washington St. San Francisco
Norfolk House, Cannon St., E. C., London
Inspection of Structural Steel and Iron, reinforcing bars, cement and other building materials. Examinations and supervision of re-inforced concrete work a specialty. Chemical and Physical Laboratories.

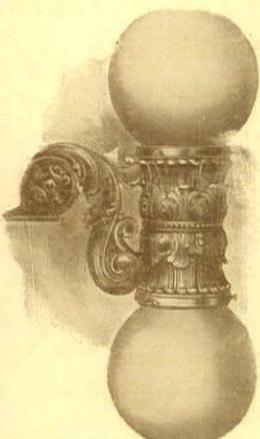
SAMSON SPOT SASH CORD

There is only one grade of Spot Cord. You can be sure you're getting the best. Have you our catalogue?
SAMSON CORDAGE WORKS BOSTON, MASS. (4)

"CHICAGO AA"
1,250,000 BARRELS ANNUALLY
HIGHEST QUALITY
THE BEST THAT CAN BE MADE
Chicago Portland Cement Company
108 La Salle Street CHICAGO, ILL.



Just Out, Standard
HANDBOOK OF ESTIMATING DATA.
Invaluable for architects, contractors, estimators, carpenters, masons, plumbers, painters and all others engaged in the building trade. Full of facts, not formulas, and so simple that every item can be readily understood by anyone who can read. No useless padding to make the book look bigger. Every page worth the price of the book.
Price \$1.00
THE BUILDERS' AUXILIARY CO.
325 OLD SOUTH BLDG., BOSTON, MASS.
Ask for particulars of the "Builders' Auxiliary," the latest and most efficient system of recording estimates and keeping cost accounts for building contractors.

The **ARMSTRONG**
Electric
Elevator Signal
and Mechanical
Indicators
for Passenger Elevators
ELEVATOR SUPPLY
and **REPAIR CO.**

561 W. Monroe St Chicago 116 Liberty St. New York