

THE
AMERICAN
ARCHITECT
PUBLISHED
EVERY WEDNESDAY
IN NEW YORK

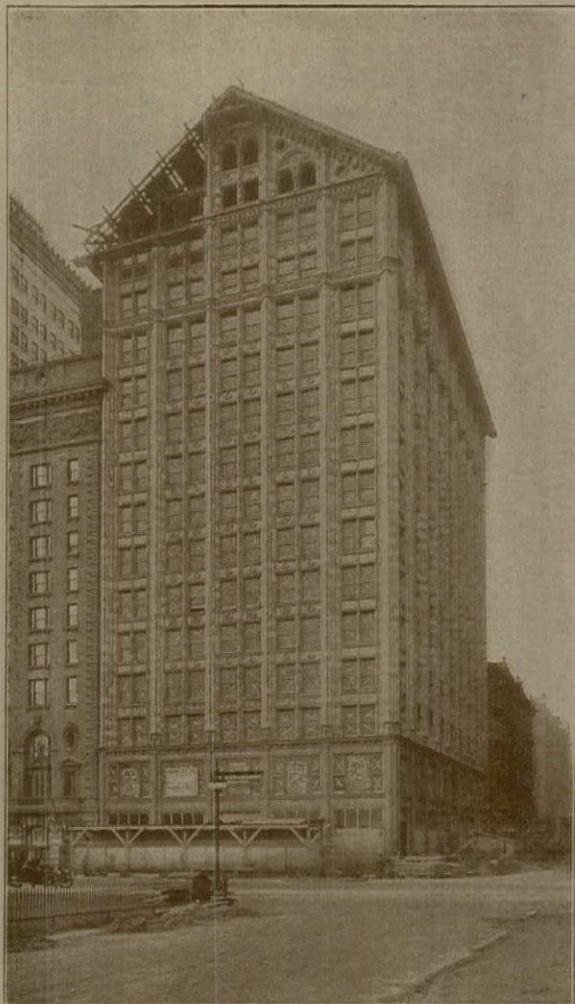
THIS ISSUE CONTAINS

DESCRIPTION AND ILLUSTRATION OF THE
TOLEDO, OHIO, MUSEUM OF ART, GREEN &
WICKS, ARCHITECTS, H. W. WACHTER, ASSOCI-
ATE ♦ SOME ENGLISH SNAP-SHOTS, BY W. GEDNEY
BEATTY ♦ EDITORIAL COMMENT ♦ CURRENT,
INDUSTRIAL AND BUILDING NEWS ♦ ♦ ♦

VOLUME CI

APRIL 10, 1912

NUMBER 1894



EFFICIENCY was the keynote in the construction of the new Monroe Building, Chicago. Because of their known efficiency, **LUXFER PRISMS** were used for daylighting the basement — now there's another example of perfect daylight illumination accomplished through Luxfer Prism Sidewalk Lights.

The sidewalk around the Monroe Building has no exposed ironwork to get rusty or slippery — nothing but concrete and glass, which looks neat and lasts indefinitely.

And there are thousands of other Luxfer installations giving just that kind of satisfaction.

Luxfer

Luxfer Prism Systems cover the daylighting problem from every angle. Basement daylighting by Luxfer Prism Sidewalk Lights, Store daylighting by Luxfer Prism Transoms and Luxfer Floorlights, Mill and Factory daylighting by Luxfer Sheet Prisms, daylighting from the rear and sides by Luxfer Prism Skylights and Canopies.

And every system is scientifically applied. Nothing haphazard and nothing left to chance. Every Luxfer installation is made to conform with existing conditions, and results are scientifically pre-determined.

We will be pleased to mail our book "Daylighting" to anybody interested.

AMERICAN Luxfer Prism COMPANY

OFFICES:

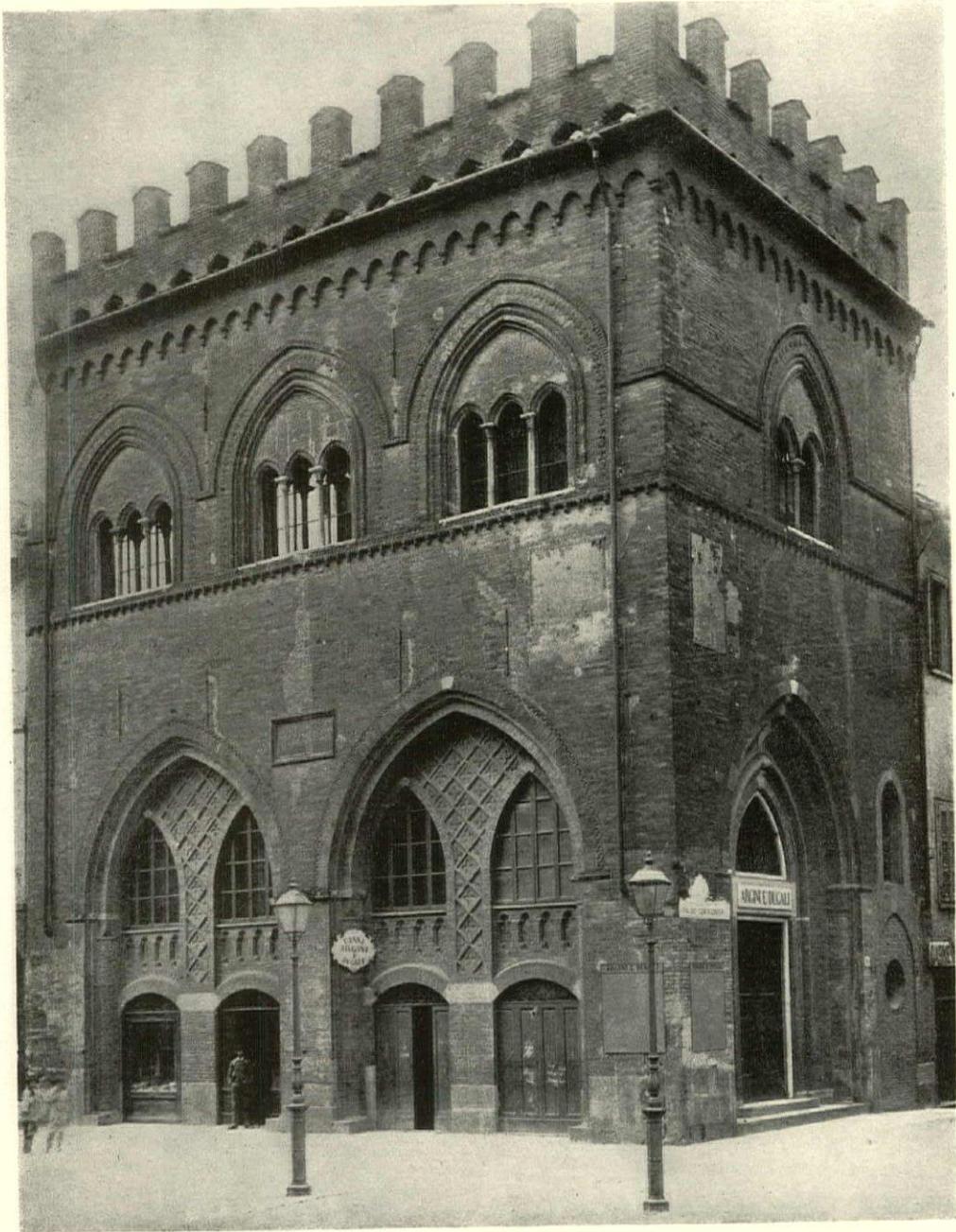
CHICAGO - 1605 Heyworth Building
 BOSTON - - 49 Federal Street
 CLEVELAND 419-20 Citizens' Building
 BALTIMORE 812 Equitable Building
 DULUTH - 106 W. Michigan Street
 INDIANAPOLIS 7 E. Market Street

KANSAS CITY 948 N. Y. Life Building
 MILWAUKEE - - Stroh Building
 NEW YORK - 507 W. Broadway
 NEW ORLEANS - 904 Hennen Building
 PITTSBURGH - 1222 Fulton Building
 PHILADELPHIA - 411 Walnut Street

ROCHESTER - 38 Exchange Street
 ST. PAUL - - 615 Ryan Building
 MINNEAPOLIS 507 Andrus Building
 DALLAS - - Builders' Exchange
 SAN FRANCISCO 445-47 Turk Street
 LOS ANGELES 1701 N. Main Street

FEB 1 '18

THE AMERICAN ARCHITECT



PALAZZO DEI GIURECONSULTI (1292), CREMONA, ITALY

THE AMERICAN ARCHITECT

VOL. CI.

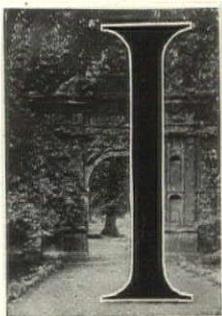
WEDNESDAY, APRIL 10, 1912

No. 1894



THE TOLEDO, OHIO, MUSEUM OF ART

MESSRS. GREEN & WICKS, *Architects*, MR. H. W. WACHTER, *Associate*



IT is now generally conceded that a museum of art should be something more than a building affording wall space on which to hang pictures. It, too, must play its part in influencing the minds of those who gather to see the works of great painters and sculptors. It must unconsciously draw them away from the commercial life about them and lift them to an intellectual plane in harmony with the spirit in which those pictures were created. If this were not so, an admirable museum would be afforded in the waiting rooms of our great stations or in the lobbies

of our hotels and large apartment houses.

The Toledo Museum of Art stands in the center of a large lot about 400 feet square, with a setting of close standing old, majestic oaks. The architects, Messrs. Green & Wicks, of Buffalo, and H. W. Wachter, associate, not only took every advantage of the natural resources which nature afforded, but they created a pedestal; in other words, they formed a terrace above the level of the sidewalk, upon which to stand their building. The main floor of the building (a one-story structure) is therefore about nine feet above the level of the sidewalk.

The approach, 100 feet wide and 150 feet deep from the sidewalk, leads by granite steps and an intermediate terrace up to the

THE AMERICAN ARCHITECT

main entrance. Upon the intermediate terrace is placed a large pool of water, which suggestively reflects the image of the building. The terrace is surrounded and held in place by a granite retaining wall, and against this a planting of dark green evergreens relieves the white of the marble, particularly during the winter months when snow is on the ground.

On this pedestal with its natural background and well thought out planting the building stands. It is rectangular in plan, with its front broken only by a great loggia which has the same length as the width of the approach. The Ionic order is used in the strictly classical style of the Periclean period, and the building is carried out in white marble with granite base. On either side of the loggia the wall surface is left unbroken, forming a setting for a group of statuary. Above an Ionic entablature and decorative bronze gutter, stretches an unbroken roof. The wall of the loggia is divided into bays by pilasters, and pierced

by simple window openings, with a doorway in the center. Through the principal entrance the visitor enters directly into a large sculpture hall on the main floor. This hall is surrounded by Ionic columns, forming bays, which give an admirable frame and setting to the sculpture. On either hand are two smaller galleries for pictures, approached through large openings, establishing a main axis. To the rear of the sculpture court is a hemicycle with a seating capacity of 400. At about the crossing of the two main axes are placed the principal picture galleries. These are so planned as to permit of future extension without interference with the original scheme.

The lighting of the building, both natural and artificial, has received careful study and the results have been declared to be most satisfactory. The unqualified approval expressed by the citizens of Toledo, Ohio, on the occasion of the completion of their art museum, coupled with the more critical



THE TOLEDO, OHIO, MUSEUM OF ART
MESSRS. GREEN & WICKS, ARCHITECTS, MR. H. W. WACHTER, ASSOCIATE

THE AMERICAN ARCHITECT



THE TOLEDO, OHIO, MUSEUM OF ART
MESSRS. GREEN & WICKS, ARCHITECTS, MR. H. W. WACHTER, ASSOCIATE



ONE OF THE PICTURE GALLERIES, THE TOLEDO MUSEUM OF ART
MESSRS. GREEN & WICKS, ARCHITECTS, MR. H. W. WACHTER, ASSOCIATE

judgment of men engaged in museum work, and the many words of praise that have been spoken by members of the architectural

profession, seems to leave little room for doubt as to the excellence of the work accomplished by the Architect.

SOME ENGLISH SNAPSHOTS

By W. GEDNEY BEATTY

Illustrated by Photographs by the Author



VAST treasure-house of picturesque architecture is England. Seldom is there a district, however small, in which one fails to find something that attracts.

Motoring about London is like turning the leaves of a book of photographs.

And this is true in all directions.

Down into Surrey, through the small villages with streets that have changed but little in two hundred years, one passes between the old overhanging house fronts that are as they were built; only here and there, where a much too carefully trowelled patch of cement brings us back to the present.

The weathered surfaces have an especial charm. The much-sought-for roughened

surface of the brickwork is here natural. Only time and its disintegrating forces can give that peculiar softness that one seldom forgets. I have seen timber faces that have weathered like stone, the grain deeply bitten and roughened by rain and wind. And the tile roofs are equally spirited with their moss-grown patches and wavering lines charming in their picturesqueness.

Into Kent, from London to Canterbury, is a road of intense interest. Through tree tops and over hedges, against the sky, the towers and spires of the Parish churches are everywhere, and within them is a quiet that belongs to a period on which we dwell with pleasure. Set in the floors of these small churches, within stretches of stone flags and old encaustic tiles, worn so much in places that no pattern remains, are the stone burial



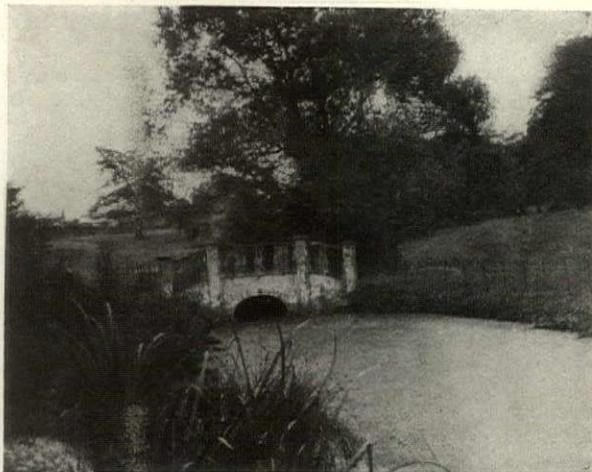
BRIDGE AT TILFORD, SURREY

slabs of those who were known when England's civil wars were driving to despair its restfulness and peace. There is enough study in the quaint and beautifully arranged lettering of these grave slabs to fill one with enthusiasm; and seen as they are in the shadows that hang over them, makes one feel the emptiness of today's efforts to reach a point that there is natural and true.

The hand of the restorer has, unfortunately in many instances, been sadly lavish. The proudly tableted gifts of money for restoration purposes, jars one greatly when the

care and thoroughness of the workmen have blotted out the settlements and color tones of time. Many a structure has been artistically ruined. Many churches and cathedrals have alike fallen from their ideals of beauty through this ruthless rebuilding.

It is possible something can be done to prevent a part of this recklessness of reconstruction, if a greater interest were awakened: and this will probably, in time, take place. But for the present much is being irrevocably lost which can never be again brought back. Restoration is of course a necessity



BRIDGE NEAR SEVEN OAKS

THE AMERICAN ARCHITECT



ST. ALBANS



WARWICK

at times, but it should be done in the spirit and with the aim of continuing the past.

In considering the rapidly disappearing buildings of great age, it is a most fortunate opportunity today to photograph and retain what we can of them.

Some snap-shots obtained by me about

London have been here reproduced. They have been quickly taken and are but a few of the things one sees by the roadside, and that I have had the chance to photograph. They are but a fragment of what has already been taken by others and can yet be obtained.

(Concluded on page 172)



TILFORD, SURREY



ST. ALBANS

THE AMERICAN ARCHITECT

Founded 1876

PUBLISHED EVERY WEDNESDAY BY

THE AMERICAN ARCHITECT (INC.)

No. 50 Union Square, New York
(Fourth Avenue and 17th Street)

G. E. SLY, PRESIDENT

E. J. ROSENCRANS, SECRETARY AND TREASURER

Address all communications to "THE AMERICAN ARCHITECT"

SUBSCRIBERS' RATES:

In the United States and Possessions (Porto Rico, Hawaii,
Philippine Islands and Canal Zone)
Mexico and Cuba

TEN DOLLARS PER YEAR, POSTAGE PAID
ALL OTHER COUNTRIES . . . \$12.00 PER YEAR
SINGLE COPIES (Regular Issues), 25 CENTS

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

Vol. CI APRIL 10, 1912 No. 1894

CONTENTS

THE TOLEDO, OHIO, MUSEUM OF ART - - 165
SOME ENGLISH SNAPSHOTS - - - - 168
EDITORIAL COMMENT - - - - - 171

ILLUSTRATIONS:—

THE TOLEDO, OHIO, MUSEUM OF ART. SOME
ENGLISH SNAPSHOTS

FRONTISPIECE:—

PALAZZO DEI GIURECONSULATI, CREMONA, ITALY

BETTER PROTECTION FOR FACTORY
EMPLOYEES

ALTHOUGH it would seem that the New York Legislature might have shown greater confidence in the results of the State Factory Investigating Committee's study and deliberations of the past year, and enacted into law a greater number of the measures recommended by that body as designed to afford to factory workers better protection from fire and unsanitary conditions which now menace them, it is nevertheless comforting to know that a very material beginning has at least been made in a work that must necessarily proceed with caution. The measures adopted, to which, it is said, the Governor will unquestionably affix his signature, are without doubt the more important of those suggested for enactment. For example,

while disappointment is felt that non-fire-proof buildings may still be erected more than two stories in height, the provision which was adopted requiring the equipment of all factories with automatic sprinkler systems would seem to be of greater importance as probably affording a greater measure of protection to life. The most appalling disasters that have occurred in factory buildings in recent times have not been due primarily to their non-fireproof construction, but rather to the highly inflammable nature of their contents and the lack of adequate means for promptly extinguishing incipient fires. No possible number of exits or fire escapes and no known type of fireproof building would have saved the lives of all of the employees of the Triangle Waist factory, many of whom were overcome before they could leave their machines or even approach an exit. It is, of course, unwise to allow a great accumulation of inflammable materials or products in a factory where a number of persons are employed, but even when this hazard is reduced to a minimum, there is still danger of a sudden burst of flames which would render escape from a room impossible, unless some means of instantly quenching the fire is at hand. As far as present knowledge extends, it would seem as though such means is provided only by a properly designed automatic sprinkler system. Its installation in buildings of this class should have been made mandatory years ago.

Other provisions of the newly enacted laws of perhaps less importance, but still proper and necessary, require adequate exits and stairways, a sufficient number of openings leading from work-rooms, guarded by fireproof doors opening outward, or so constructed as to slide freely; proper protection for all lights; compulsory fire drills for employees; the placing of proper receptacles for the reception of all inflammable waste, and prohibit smoking and other unauthorized lights.

Taken first and last, compliance with the new factory laws while not difficult will unquestionably afford a very large measure of protection to both property and life and are therefore to be commended. Undoubtedly, they will be added to as time goes on, yet even as they now stand they will serve

THE AMERICAN ARCHITECT

as a model to many states where less stringent regulations exist. But after all, there seems to be no valid reason for architects of factory buildings outside of New York waiting till the public conscience is quickened by some fearful disaster, before incorporating in their plans both the features and the equipment now dictated by the law of the state in some sections but by the laws of humanity everywhere.

IMPROVEMENT IN MATERIALS AND THEIR USES

PROBABLY the marked improvement in materials and their many new and artistic adaptations constitute one of the most important advances in the art of building that has yet been accomplished in America. While it is generally conceded that architecture is in a sense all-dependent on proportion and form, still without a wise selection of materials the most perfect proportions are unsatisfying in an actual structure. In other words, although proper proportion is unquestionably a first essential of any architectural composition, it is not the only consideration to which the designer must give attention.

Texture and color effects deserve and have received much study during recent years. The result of this study in collabor-

ation with manufacturers is shown in the use of polychrome terra cotta, rough texture brick-work of varying shades, warm tinted stucco with rough cast surface, tile roofing of harmonious colors, flat tints, and other wall coverings of great variety, new forms of construction using concrete reinforced with steel, daylighted interiors, and various other features to be seen in the architecture of the present day, which contrast strongly with that of a few decades ago.

Indeed there are those among us who believe they can discern the gradual evolution of a national style of architecture in America, while yet others are impatient at what they term "slavish copying of old-world forms"; but in any event no one can deny or disparage the great improvement in materials both of construction and decoration that has taken place in recent years. Perhaps this is the first step in the evolution of a distinctive type of architecture. It would seem logical to assume that new forms can best be served by new methods and new materials or materials of different aspect from those which have been used in copying, reproducing and adapting the architecture of the old world. At any rate, notable progress has been made—progress in a direction that can scarcely fail to furnish both the incentive and the means for further advance.

SOME ENGLISH SNAPSHOTS

(Continued from page 170)

Let us hope that what remains will attain a growing appreciation, so that the future

will retain most of that extant today and let us also hope that the hand of the restorer will be more intelligently guided in the future, than it has been in many instances in the past.



WROTHAM



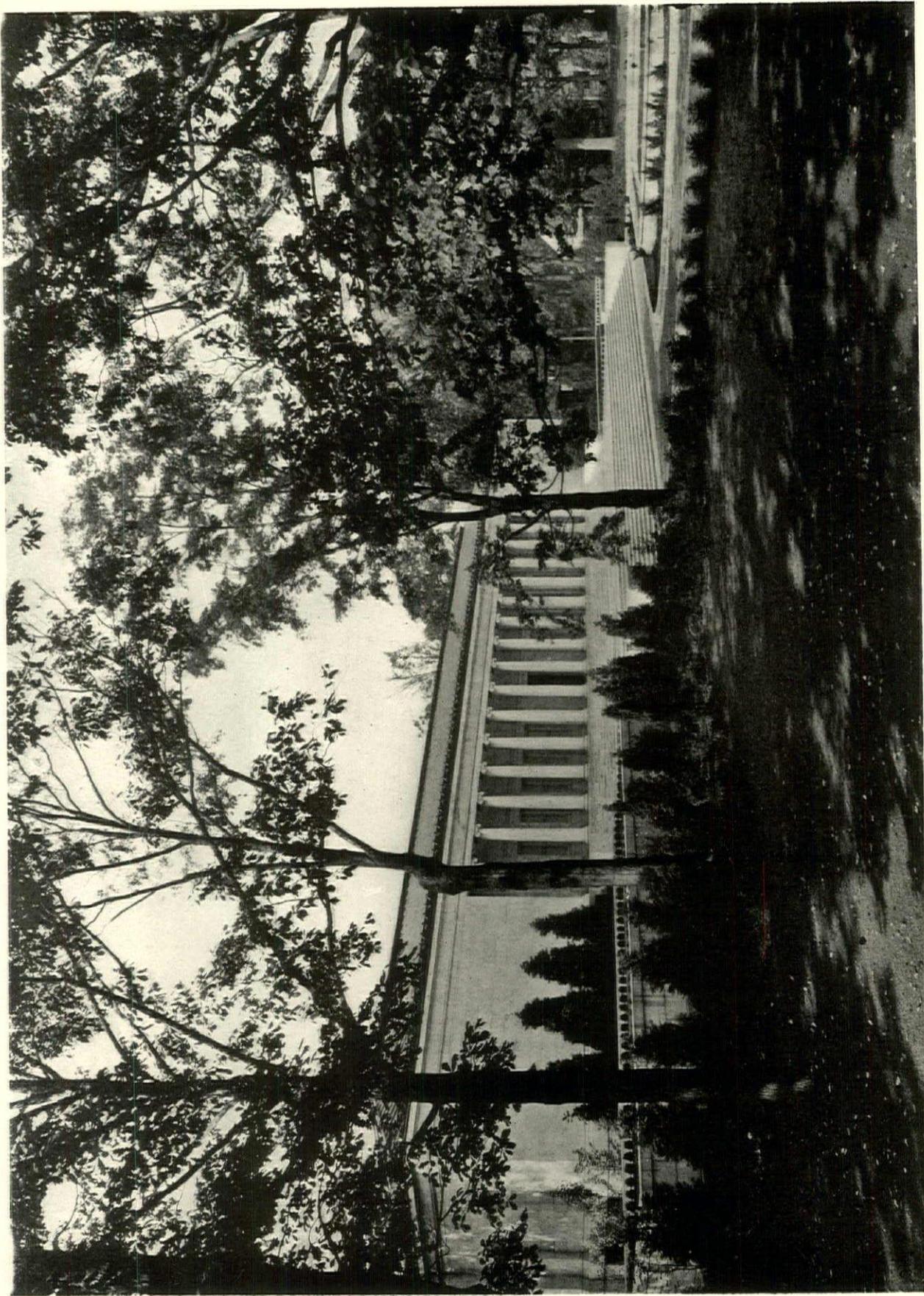
KENILWORTH



THE AMERICAN ARCHITECT

APRIL 10, 1912

VOL. CI, NO. 1894



THE TOLEDO, OHIO, MUSEUM OF ART

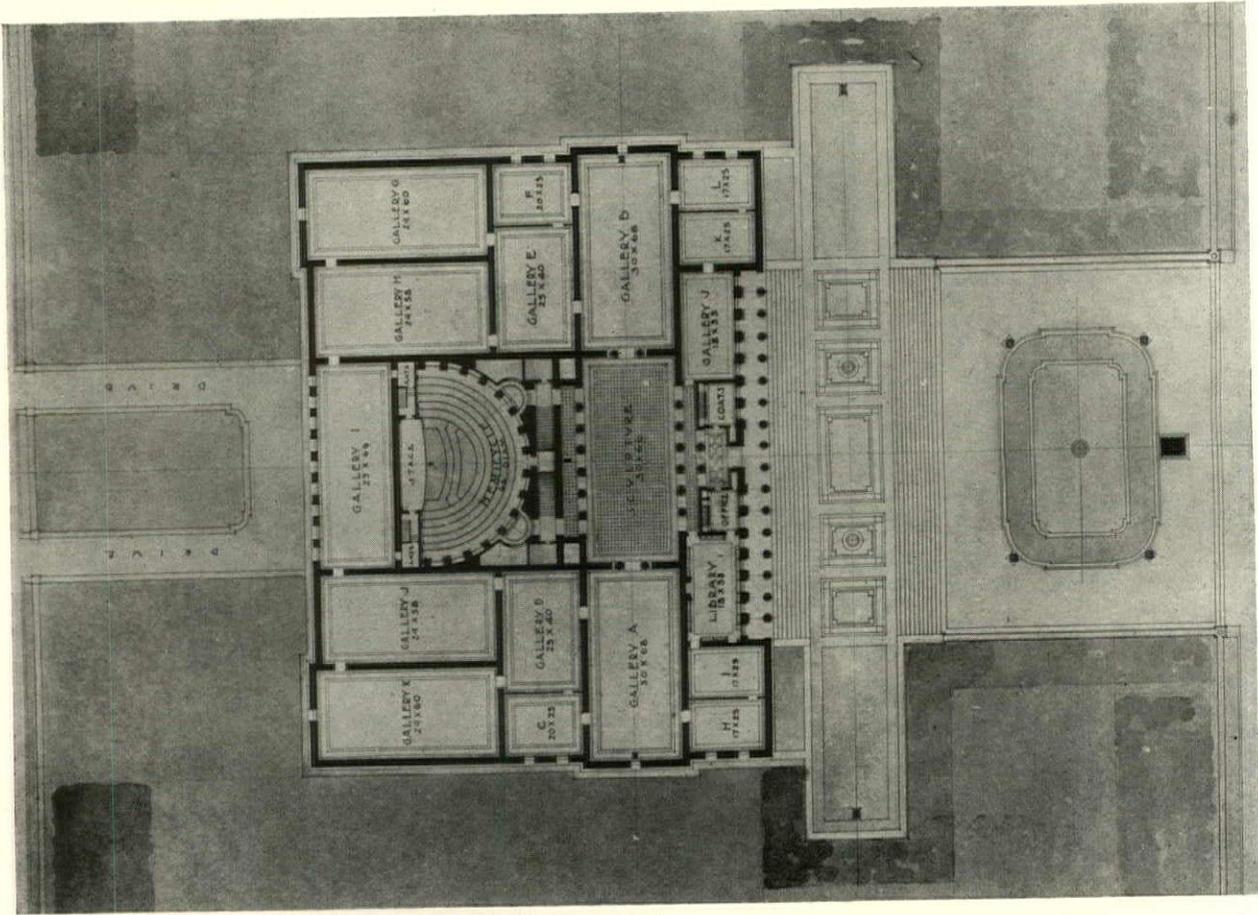
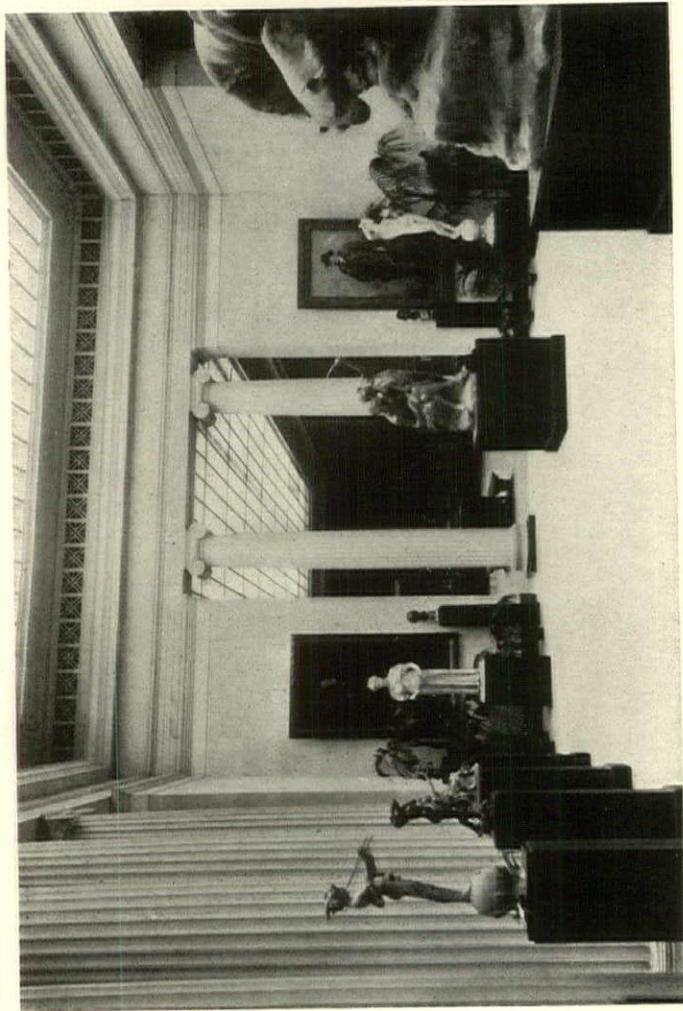
MESSRS. GREEN & WICKS, ARCHITECTS, MR. H. W. WACHTER, ASSOCIATE



THE AMERICAN ARCHITECT

APRIL 10, 1912

VOL. CL. NO. 1894



THE TOLEDO, OHIO, MUSEUM OF ART

MESSRS. GREEN & WICKS, ARCHITECTS

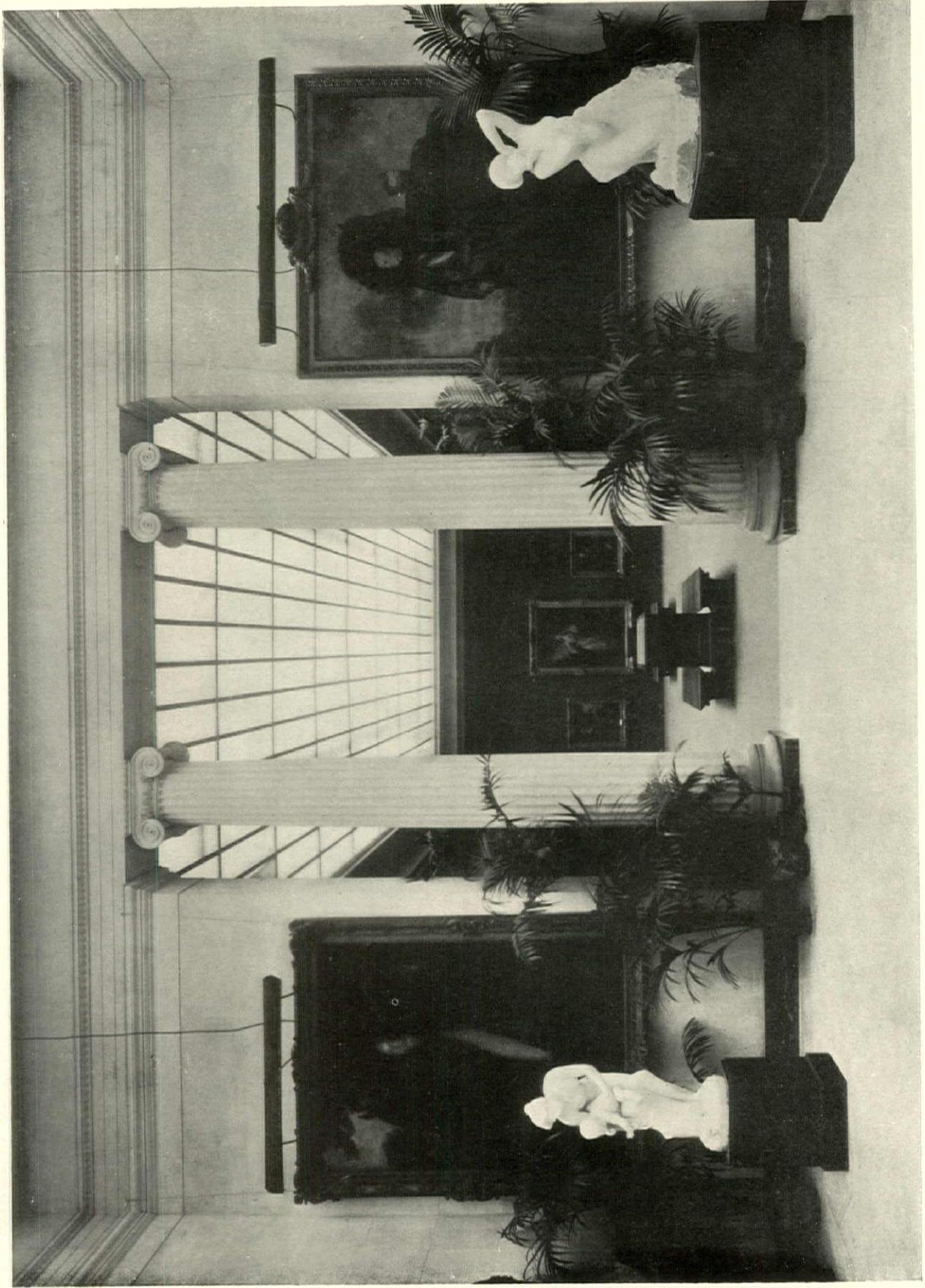
MR. H. W. WACHTER, ASSOCIATE



THE AMERICAN ARCHITECT

APRIL 10, 1912

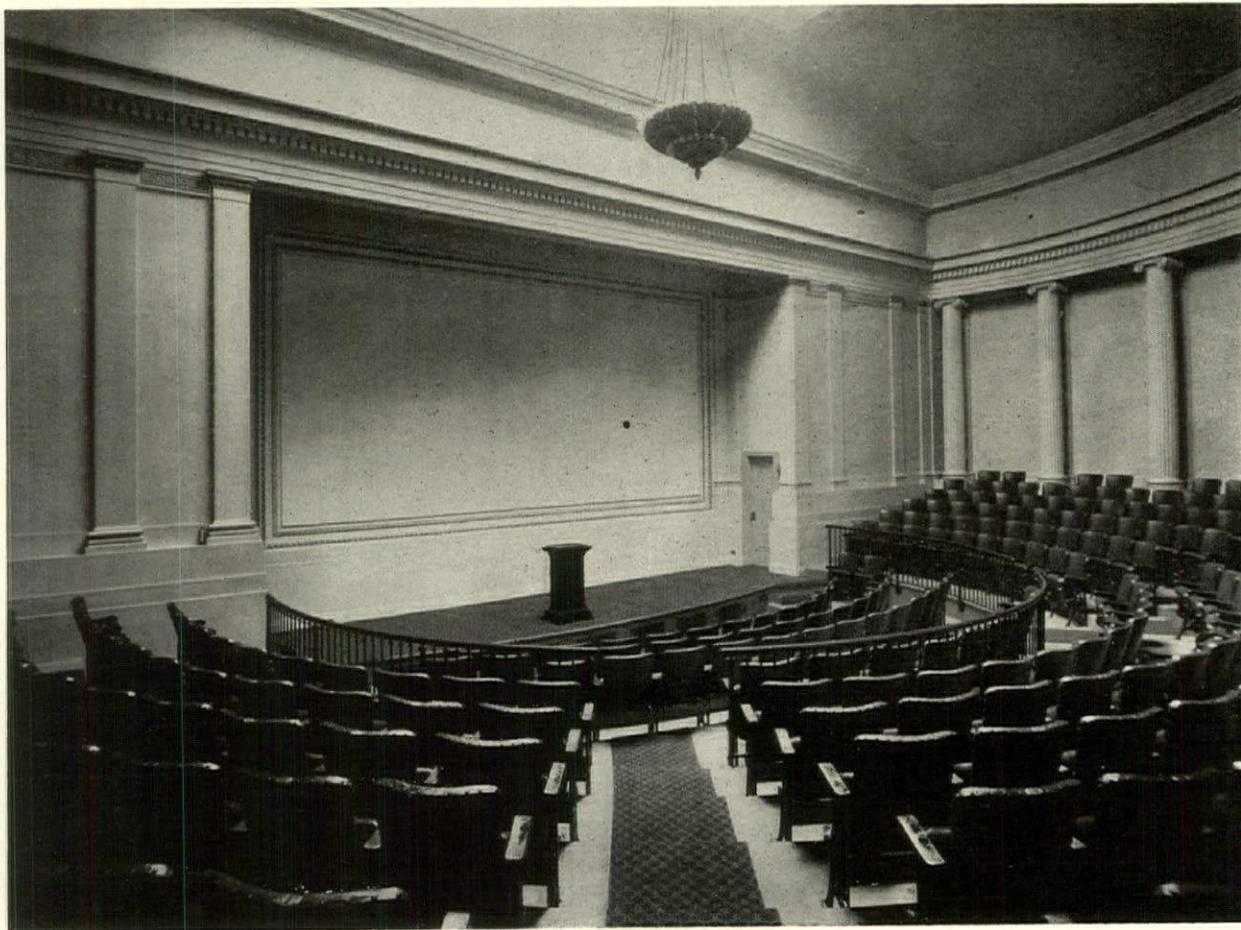
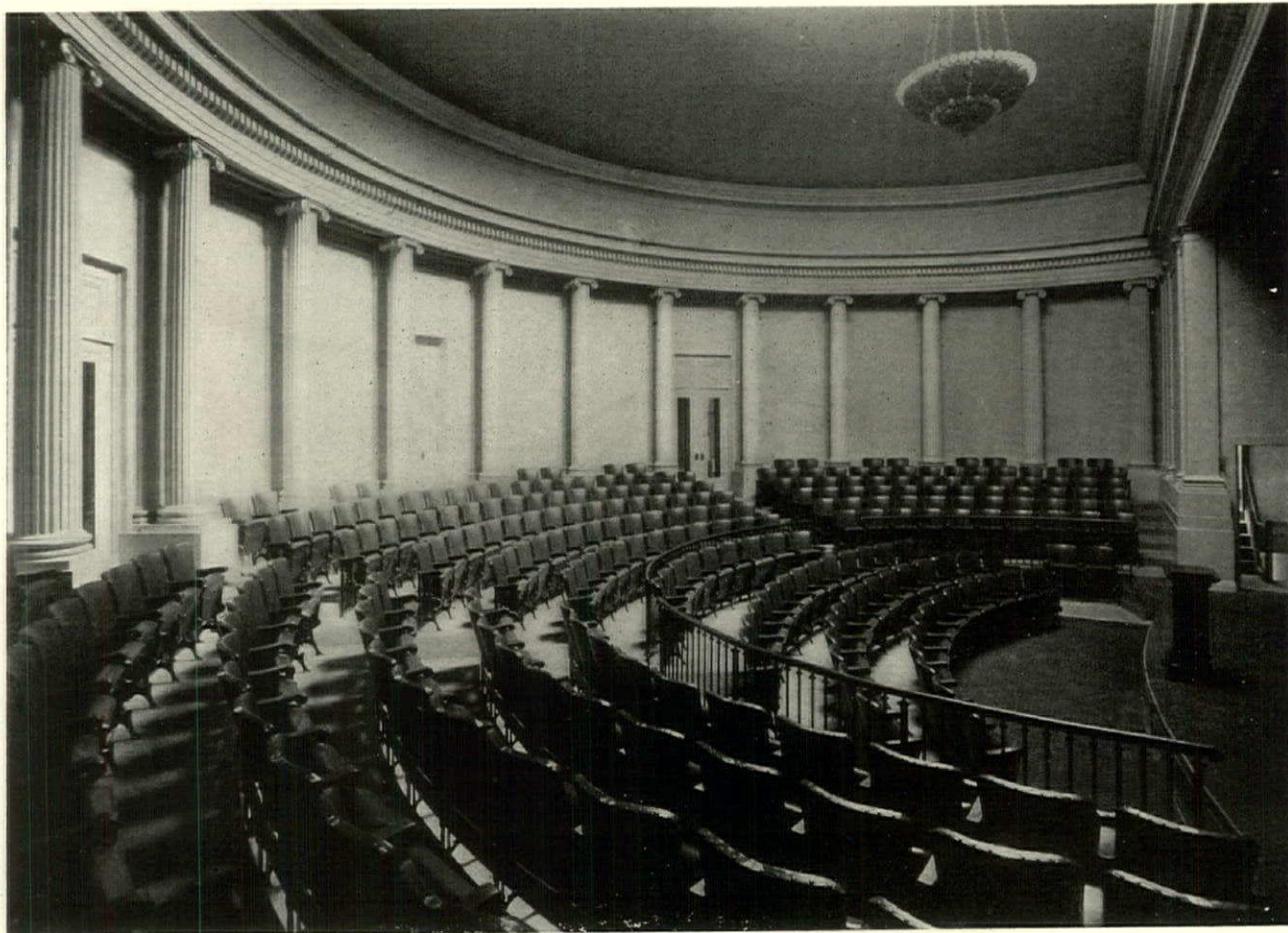
VOL. CI, NO. 1894



THE TOLEDO, OHIO, MUSEUM OF ART

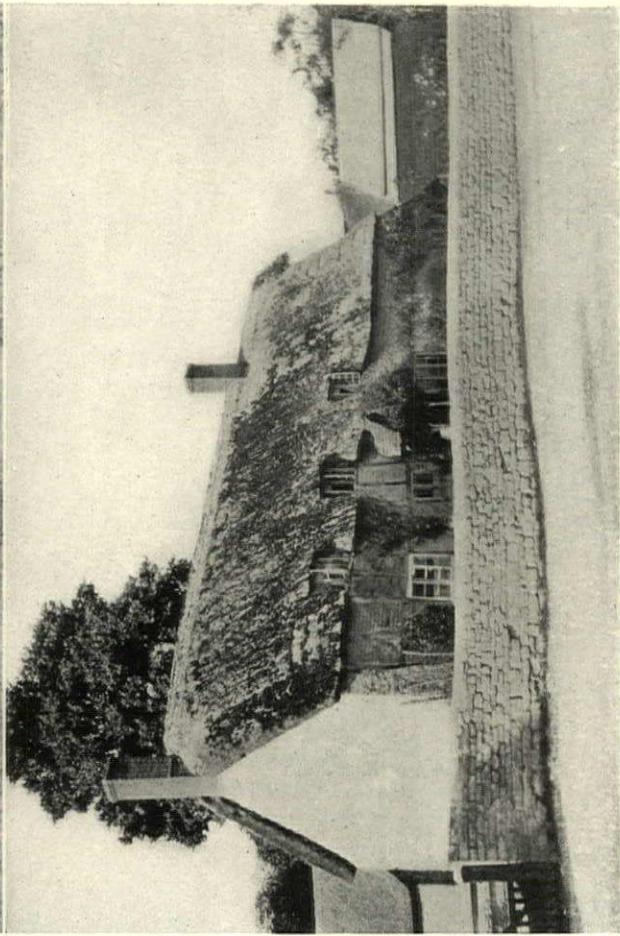
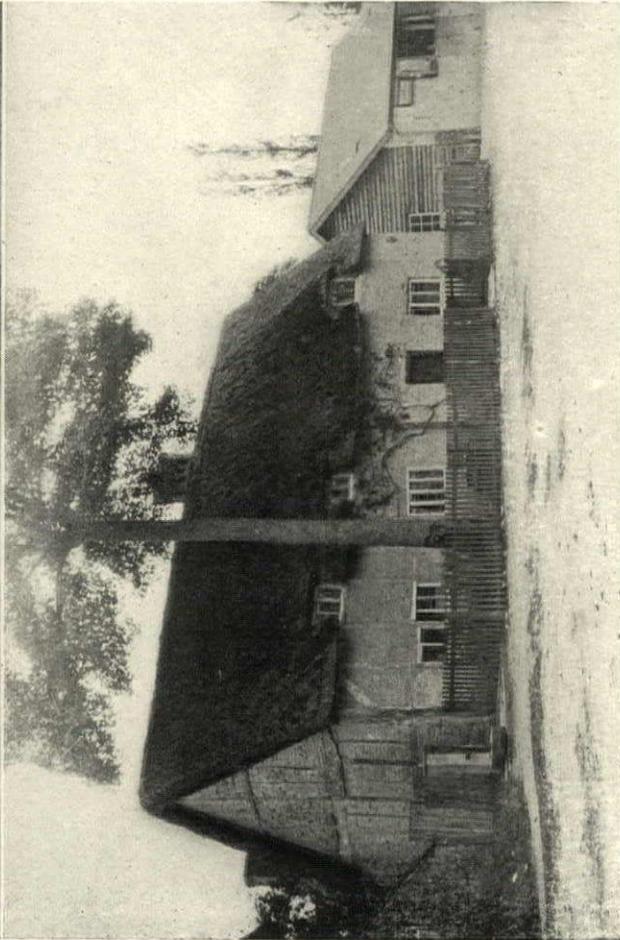
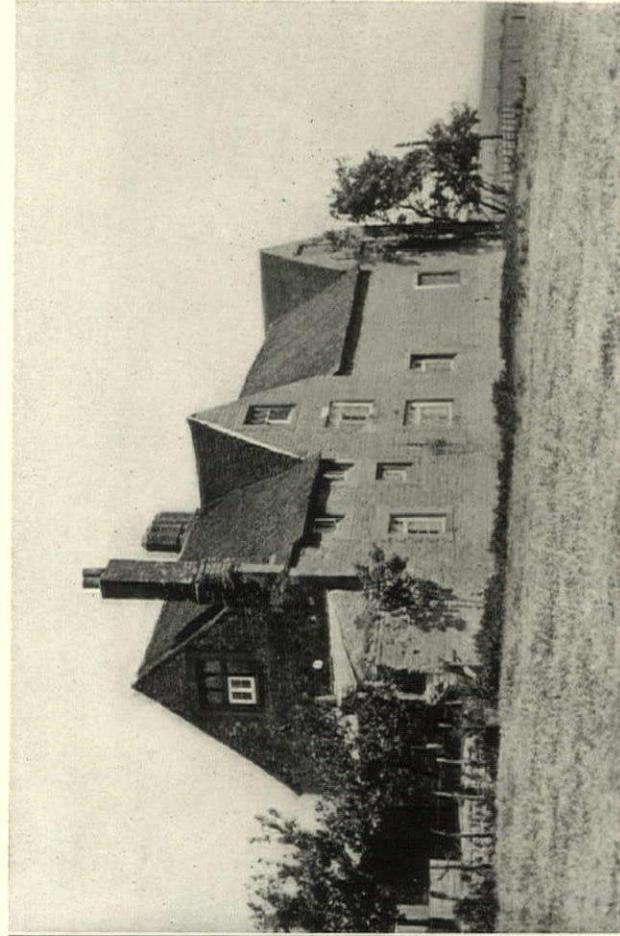
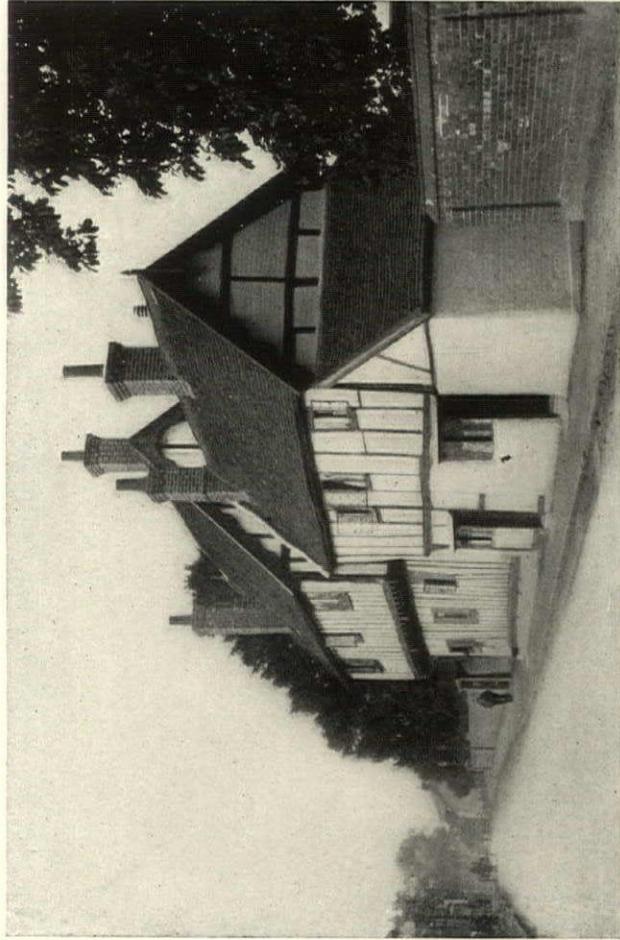
MESSRS. GREEN & WICKS, ARCHITECTS, MR. H. W. WACHTER, ASSOCIATE



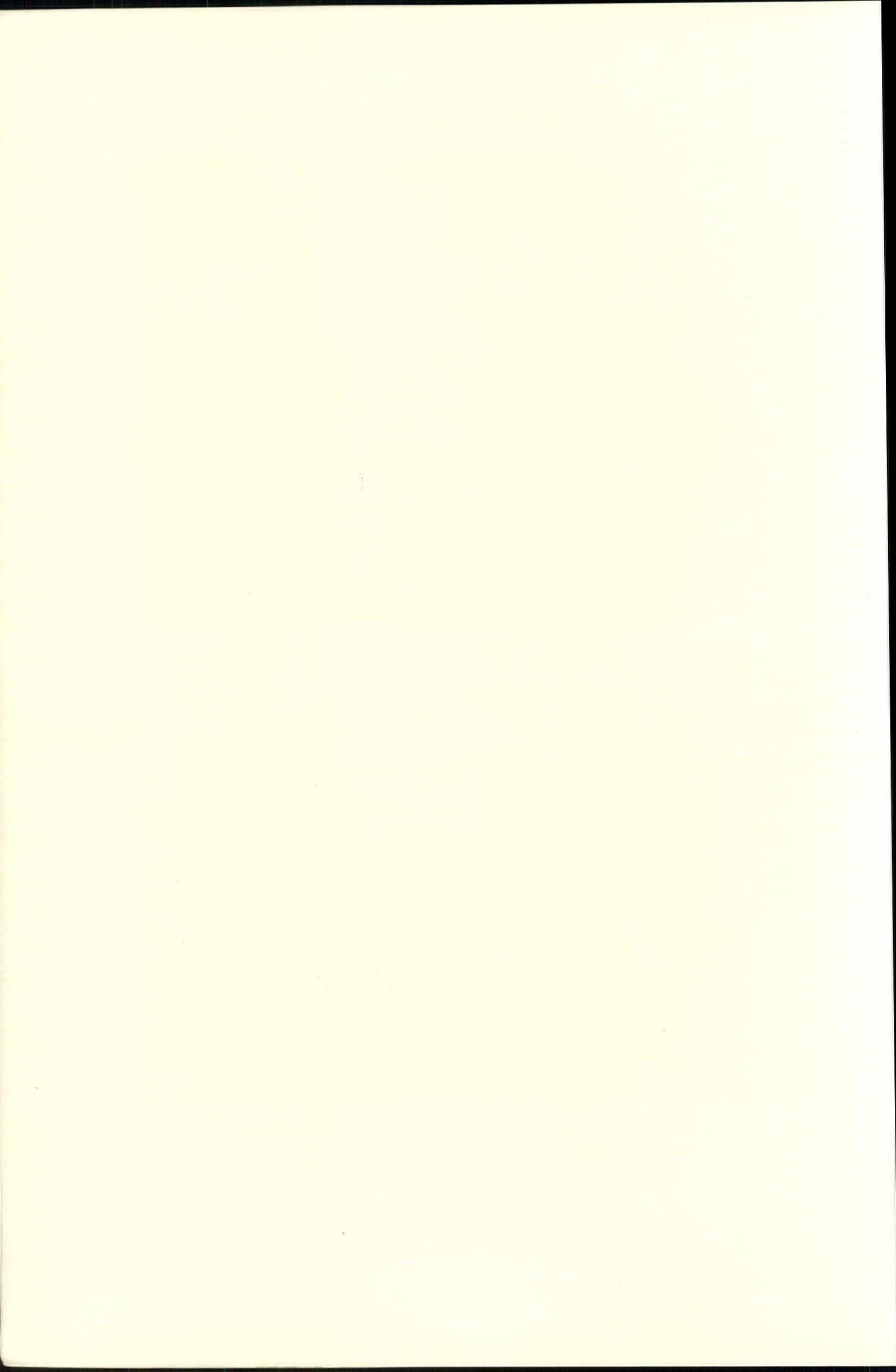


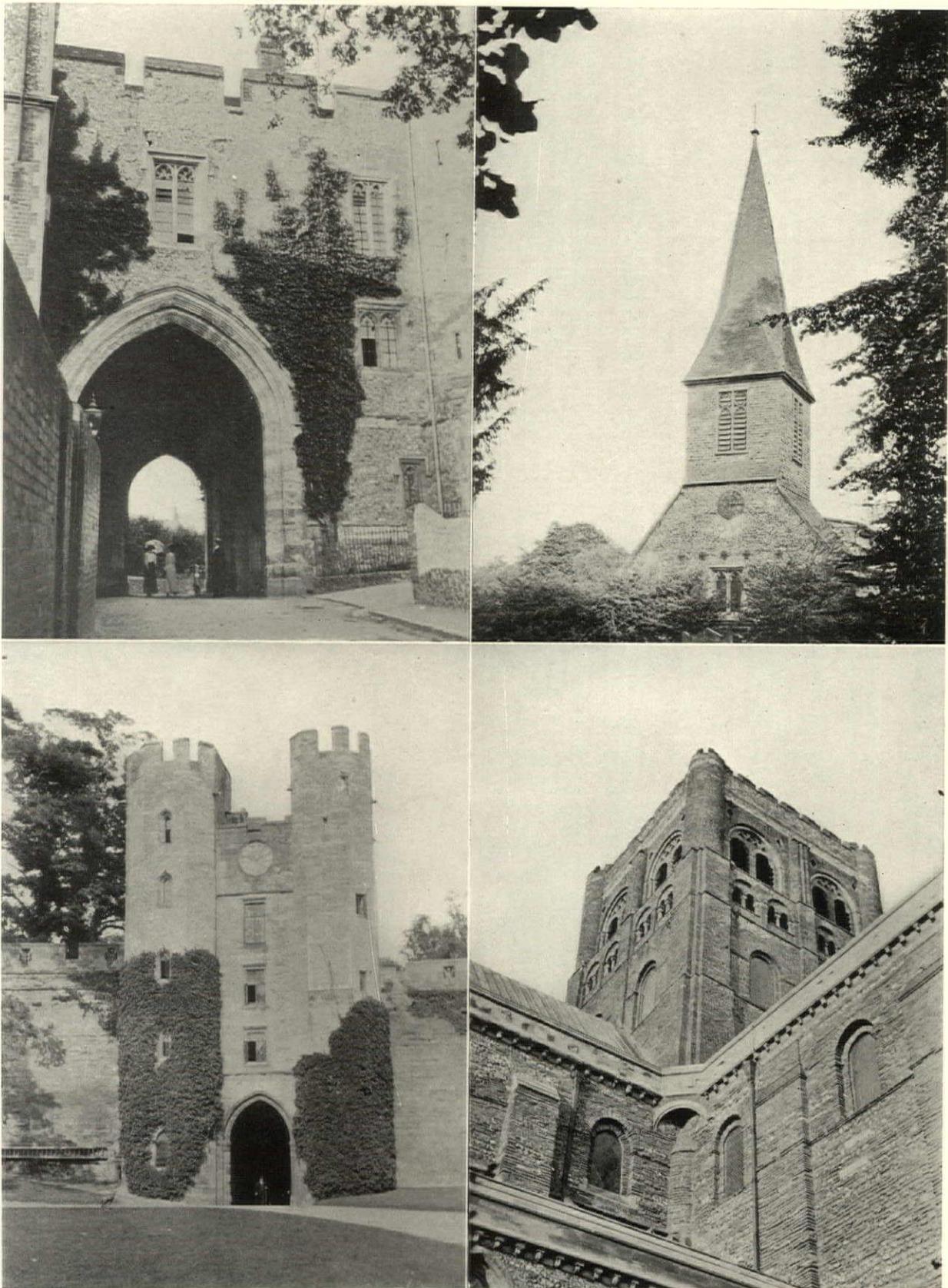
THE TOLEDO, OHIO, MUSEUM OF ART

MESSRS. GREEN & WICKS, ARCHITECTS, MR. H. W. WACHTER, ASSOCIATE



Above at Left, A House in St. Albans. At Right, House of the Clergy, Wrotham. Below, Old Houses, March-Gibbons
 SOME ENGLISH SNAPSHOTS. BY W. GEDNEY BEATTY

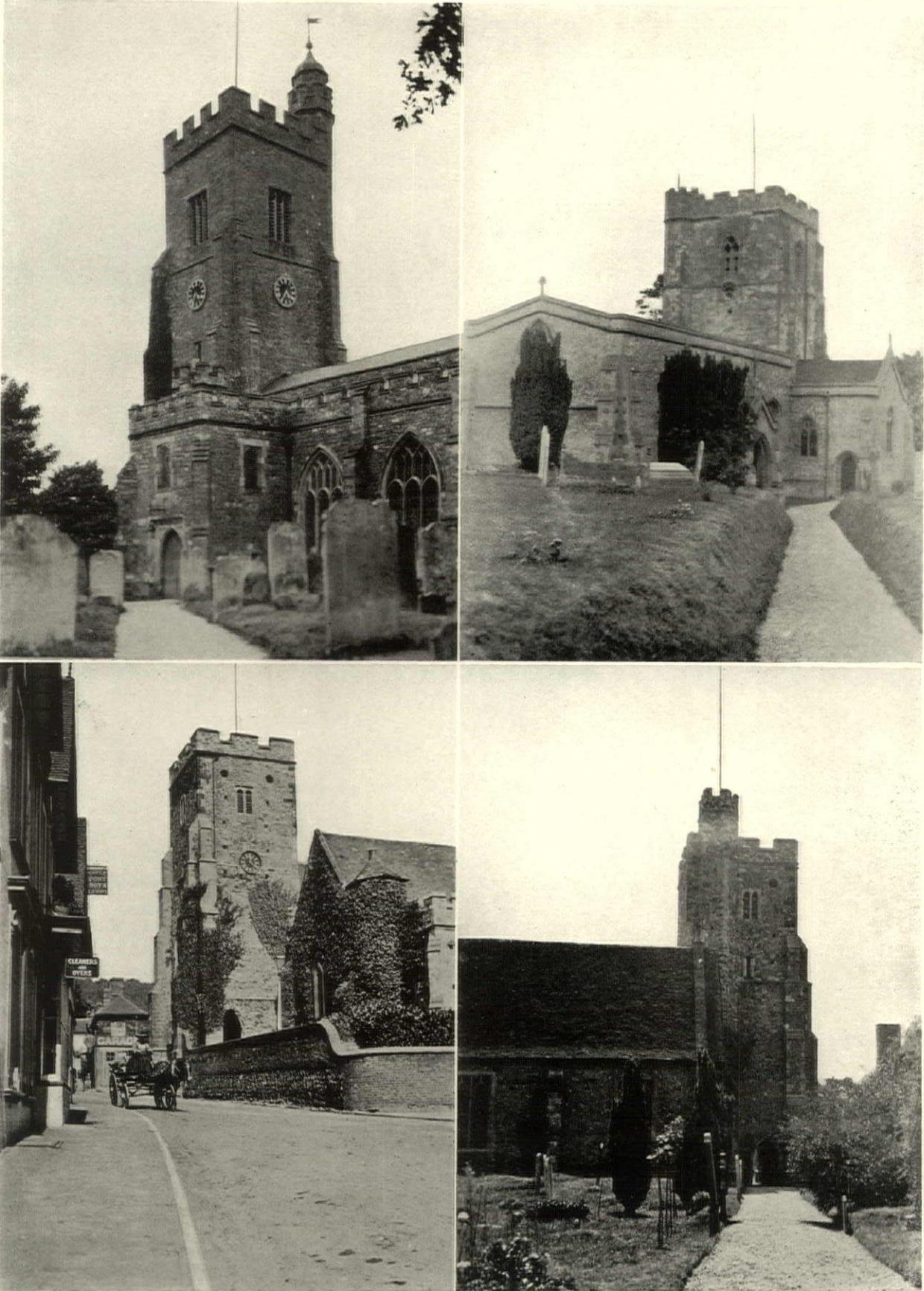




*Above, at Left, Gateway, St. Albans, London. At Right, St. Stephen's, London
Below, at Left, Detail, Warwick Castle. At Right, St. Albans Abbey*

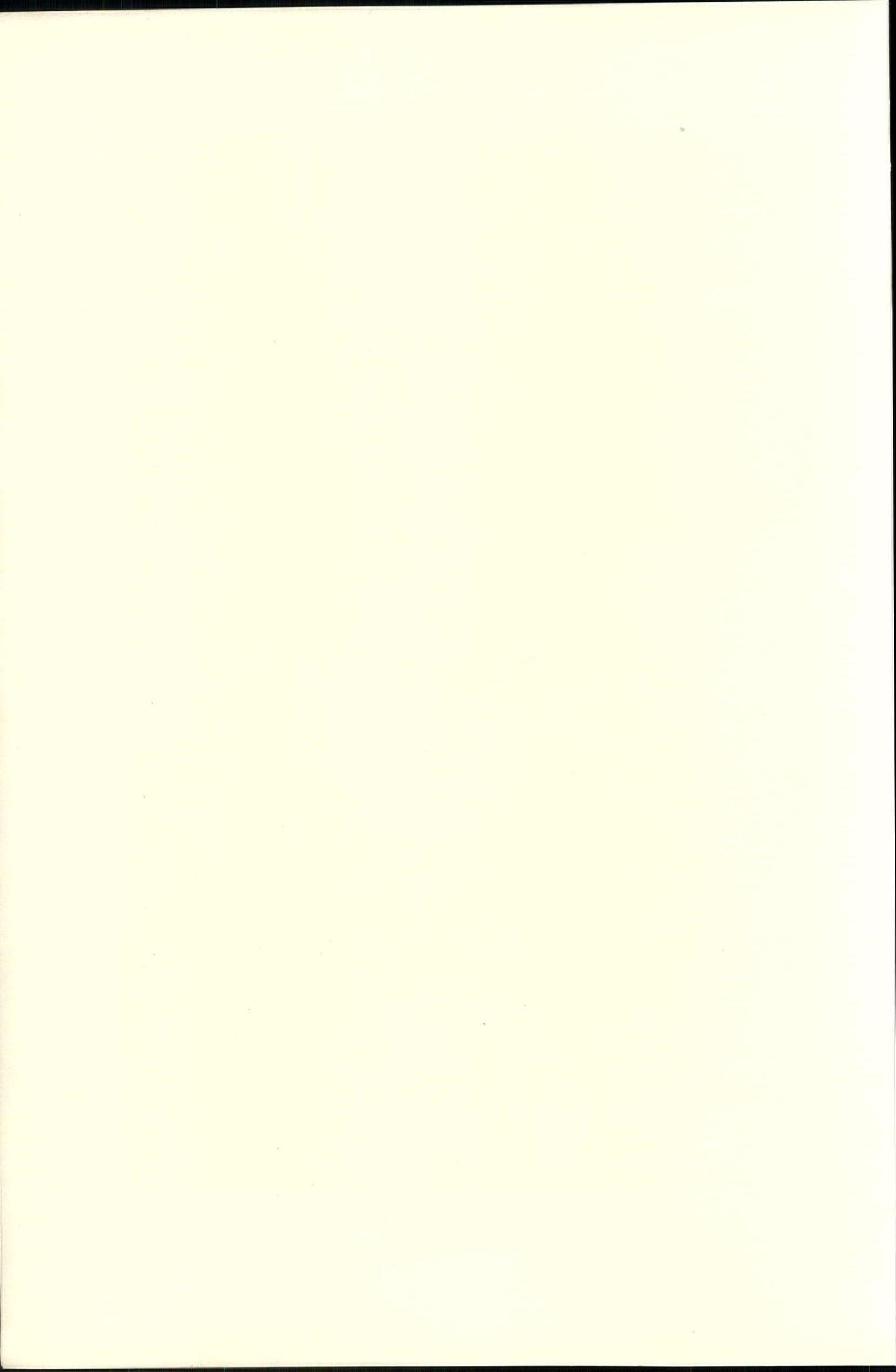
SOME ENGLISH SNAPSHOTS. BY W. GEDNEY BEATTY

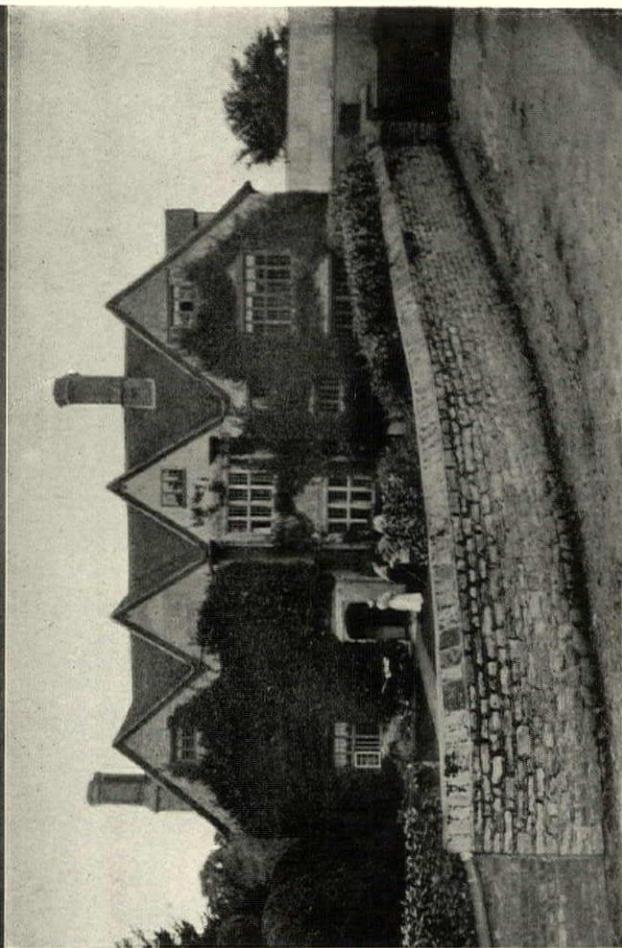
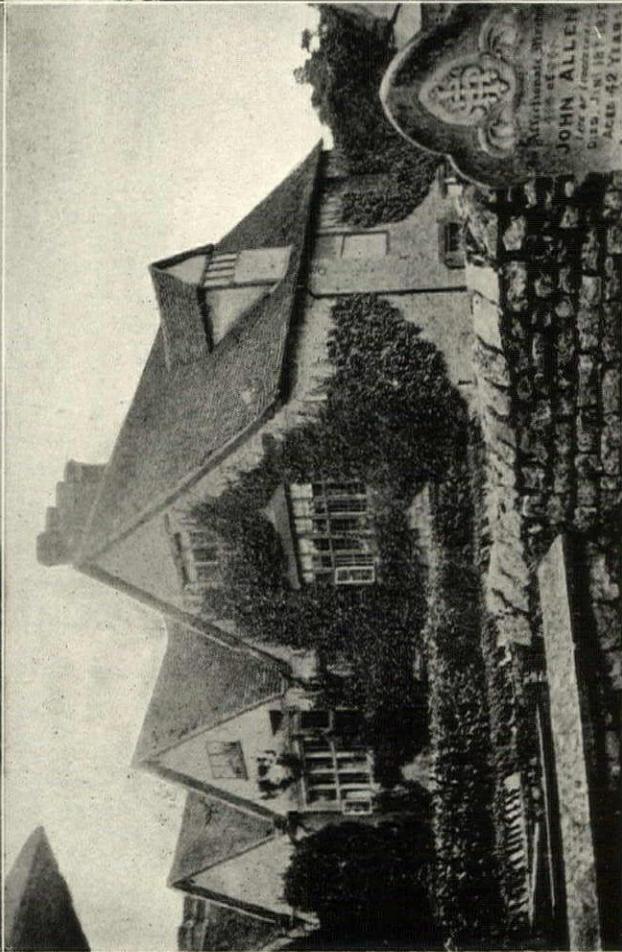
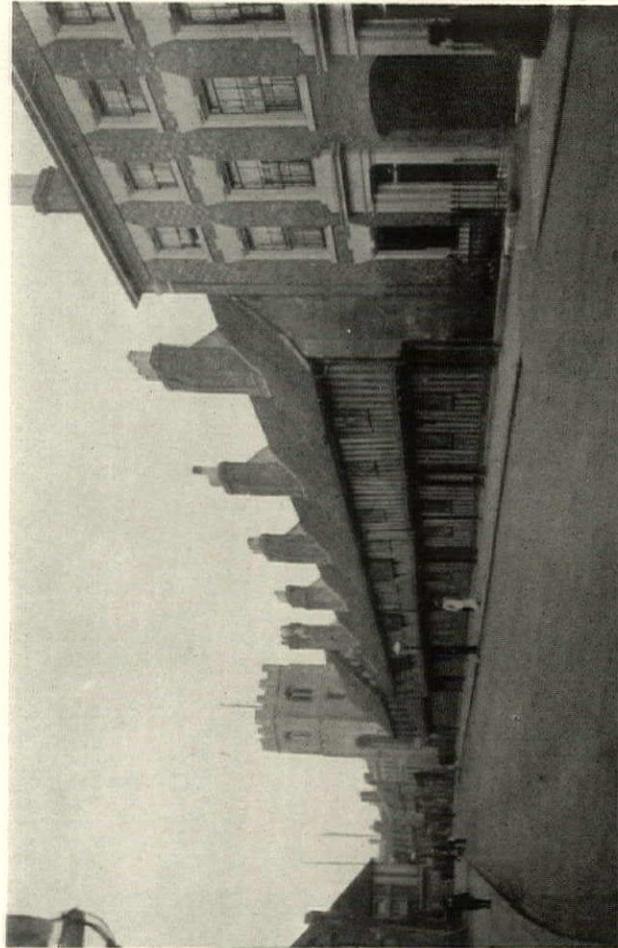
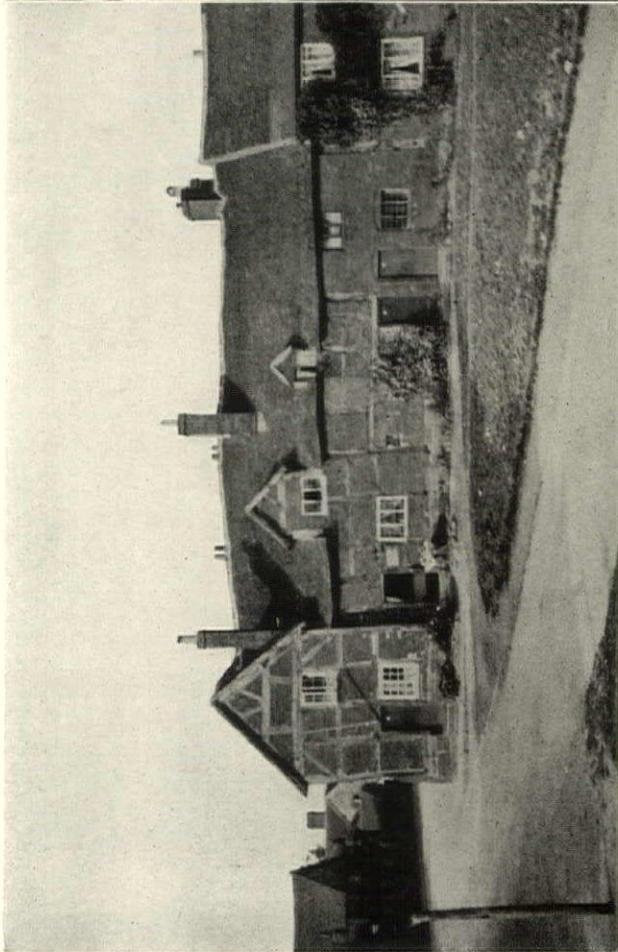




*Above, at Left. Seven Oaks. At Right, North Chancel, St. Albans
Below (2), Parish Church, Wrotham*

SOME ENGLISH SNAPSHOTS. BY W. GEDNEY BEATTY





*Above, at Left, Old Houses, Kenilworth. At Right, The Almshouses, Stratford-on-Avon. Below, Houses at Marsh-Gibbon
SOME ENGLISH SNAPSHOTS. BY W. GEDNEY BEATTY*



CURRENT NEWS AND COMMENT

The Bulletins Issued from the Office of Superintendent of Buildings, Borough of Manhattan, New York, to Keep the Building Public Informed on Matters Affecting Their Interest—

In times past architects of New York, and doubtless also of other cities, have frequently been embarrassed by discovering upon filing plans for a contemplated structure, that some modification or ruling of the Building Department having jurisdiction made the approval of certain features of the plans as drawn, impossible. This ruling had perhaps been in effect for weeks, or even months, without the architect's knowledge, due to unconcern on the part of the Building Bureau, or possibly lack of facilities for giving the information publicity among those directly affected.

Mr. Rudolph P. Miller, Superintendent of Buildings for the Borough of Manhattan, has adopted a plan which it would seem should overcome this defect, which has often occasioned not only annoyance, but delay and expense, and if so it might with advantage be followed by departments in other boroughs and cities. This plan consists of issuing numbered bulletins covering all rulings, modifications of the Code, and approvals of new materials of construction, as soon as action is taken, posting these in conspicuous position in the Department and sending copies to various publications conducted in the interests of building generally.

Following are portions of the bulletins issued during 1912, to date, which will effect the architect in the preparation of plans:

BULLETIN No. 1—1912

Dance Halls, Concert Halls, Etc

The several Superintendents of Buildings of the City of New York, in conference, adopted the following rules governing the erection, conversion or alteration of dance halls and public dancing academies for which licenses are required under Chapter 547, Laws of 1910, and concert halls, music halls and other places of public entertainment not governed by the requirements of Section 109 of the Building Code:

1. Proper plans must be filed showing arrangements of seats, exits, and stage (if any), also bearing capacity of floors (at least 90 lbs. per square foot); also statement of estimated number of persons to be accommodated.

2. No dancing school or academy or dance hall will be allowed above the second floor in any non-fireproof building, the ground floor being considered the first floor.

3. All rooms must be properly ventilated.

4. Adequate toilet accommodations separate for sexes must be provided.

5. Exits: The number and width of exits must conform with the requirements of Section 108 of the Building Code.

All exit doors must open outward, and in case of doors opening on outside balconies they must be hung to swing flat against the wall.

No windows will be considered as exits.

Outside balconies must be of iron or steel, at least four feet in width, with stairs leading to ground.

Where stairs lead to yard, proper exits must be provided

leading to street without re-entering the building, except through fireproof passage.

Every exit must be indicated by a red light placed on the inside, and by a sign with the word "Exit" painted thereon in legible letters not less than eight inches high.

6. No cinematograph or other apparatus for projecting moving pictures shall be set up for use or used in any building, place or public assembly or entertainment, unless such apparatus shall be enclosed in a fireproof booth built in conformity with the requirements of Chapter 756, Laws of 1911.

Note.—In addition to the above requirements, in the Borough of Manhattan, dance halls, dancing academies, etc., will be prohibited in frame buildings above the first floor.

BULLETIN No. 2—1912

Top Floor Partitions in Fireproof Buildings

In fireproof buildings where the roof beams are sloped, and there is a hung ceiling in the top story, the fireproof partitions, except those enclosing stair halls or elevators, in the top story need not be carried higher than the hung ceiling. This applies to the top story of the building only, it being understood that a so-called pent house, if used for other purposes than the enclosure of elevator machinery, tanks, or forming the bulkhead or stairs, is considered a story of the building.

BULLETIN No. 3—1912

Lime in Cement Mortar

The use of lime putty or hydrated lime in cement mortar to the extent of not more than 10 per cent. is permitted in any case where cement mortar is required by a building permit or by the Building Code unless the approved application or any amendment thereto calls for pure cement mortar, and provided that no lime of any kind shall be used in cement mortar for foundations or foundation walls.

BULLETIN No. 4—1912

Rules and Regulations Covering the Use of Hollow Tile Building Blocks

Hollow tile building blocks may be used for buildings not more than thirty-five feet in height under the following conditions: Hollow tile blocks shall be true and square and be of uniform shape and thickness when laid in courses.

No such blocks shall be used until complete and satisfactory tests have been made by the manufacturer under the direction of the Superintendent of Buildings, and until an approval for the use of such blocks has been obtained.

No blocks shall be approved that do not develop a compressive strength of at least 2000 pounds per square inch of net section. In no case shall the hollow spaces of any such blocks exceed 50 per cent. The thickness of walls or webs of such blocks shall not be less than one inch.

The thickness of walls for any building where hollow tile blocks are used shall not be less than is required by the Building Code for brick walls. All such walls shall be laid in Portland cement mortar. All outside walls below grade must be filled in solid with Portland cement concrete.

No wall composed of hollow tile blocks shall be loaded in excess of one hundred pounds per square inch of the gross section of the wall, i. e., no deduction being made for hollow spaces in figuring the area.

Where wood beams or girders rest on such walls, suitable templates of either iron, continuous tile, or stone, shall be provided under their ends, or the blocks under them shall be solid.

Hollow tile lintels spanning an opening over three feet six inches wide shall be reinforced with cement and steel bars.

All walls of hollow tile blocks, and beams used in same, must be anchored in accordance with Sections 41 and 60 of the Building Code.

No walls constructed of hollow terra cotta blocks shall be broken to receive pipes, but must be recessed when moulded.

Every block must have stamped thereon the name of the manufacturer or manufacturer's mark.

BULLETIN No. 5—1912
Eccentric Loads on Columns

In order that there may be uniformity of practice, stresses in columns shall be computed as follows: The maximum unit stress shall be taken as the sum of the unit stress due to the concentric load and the algebraic sum of the stresses due to eccentric loads. The unit stress due to any eccentric load shall be determined by dividing the product of that load times its distance from the neutral axis by the section modulus. In steel columns, the total unit stress shall not exceed by more than 25 per cent. the stress allowed by Section 138 of the Building Code, but in no case shall it exceed 16,000 pounds per square inch. In cast iron columns, the total unit stress shall in no case exceed the stress fixed by Section 138 of the Building Code.

BULLETIN No. 6—1912
New Materials of Construction

During the month of January, 1912, approvals have been issued by the Bureau of Buildings, Borough of Manhattan, for the following materials and constructions:

FIREPROOF FLOOR FILLINGS

Name.	Span, ft. in.	Live Load, sq. ft.	Thickness of Material.
Pierce	8 0	300 lbs.	5 1/4 inch cinder concrete, 1" x 1/8" twisted steel bars 8' o.c., hooked over flanges of supporting beams. Tracing 96-A.
Pierce	6 0	400 lbs.	4 inch cinder concrete at crown, 1 x 1/8" twisted steel bars 8' o.c. 96-B.
Expanded Metal	8 0	120 lbs.	4 inch cinder concrete "Steel-crate," 3-13-125. Tracing 62.
Keystone	3 6	549 lbs.	4 to 5 inch flat slab, plaster of paris 75 per cent., by weight; wood chips, 20 per cent.; coconut fibre, 2 1/2 per cent.; asbestos, 2 1/2 per cent.; No. 12 gal. wires, 1/4" to 3" o.c. 74-A.
	8 0	60 lbs.	

PLASTER BOARD

Sanitary Fireproofing & Contracting Co., 5/8" plaster board with 1" x 1" plaster strips 9" o.c., cast to the board. Approved for bakery ceilings.

BULLETIN No. 7—1912
Modification Sections 32 and 36, Building Code

In re Application No. 3178, Alterations 1911; premises west side Church Street, from Cortlandt to Dey Streets.

In the court of a fireproof office building consisting of a 22-story main building and a 5-story extension, it is proposed to build fireproof corridors eight feet wide and about 17 feet long, connecting each floor of the extension with the corresponding floors of the main building, enclosing the same on the two sides with 6-inch terra cotta block partitions in angle iron frames covered on the outside with metal and supported at each floor on steel girders. At the junction of the corridors with the main building fireproof doors will be provided. The purpose of the corridors is to afford the tenants of the extension access to the elevators located in the main building. A strict interpretation of Sections 32 and 36 of the Building Code would require the two side walls to be of brick 12 inches thick.

A modification of Sections 32 and 36 of the Building Code is requested and hereby granted to permit this form of construction, inasmuch as the proposed construction is lighter than would be required by a strict interpretation of the Building Code, and is sufficient for the purpose of enclosure walls, and as no additional fire hazard will be incurred.

Dated New York, January 23, 1912.

(Signed) RUDOLPH P. MILLER,
Superintendent of Buildings.

Approved:

(Signed) GEORGE McANENY,
President of the Borough of Manhattan.

A similar modification has been granted in each similar case, a list of which may be obtained from the department.

BULLETIN No. 9—1912

Contains rules for the inspection of plastering under Chapter 156, Laws of 1911. These are somewhat extended and therefore lack of space prevents their reproduction here. By those sufficiently interested arrangement can be made with the department to secure a copy.

BULLETIN No. 10—1912.
New Materials of Construction
FIREPROOF BEAM PROTECTION

Robert G. McCartney Construction Co., 622 St. Nicholas Avenue, New York City.—Method of fireproofing bottom flanges of steel beams with segmental arch fill. Consists of a reinforced slab of concrete 1 1/2 inches long, 1/2 inches thick, of the same mix as arch fill, 1-2-5 stone concrete, or better. Slabs supported by 1" x 1/8" straps 8 1/2 inches on centres, clamped to both sides of the lower flange of the steel beam. The upper sides of the flange to be covered at all parts with 1 1/2 inches of concrete. The ceiling furring bars to be supported independently from the steel beams by clamps and filled in solid with concrete to the depth of the protecting slabs on the steel beam.

March Meeting, Philadelphia Chapter, A.I.A.

Reports of committees were proceeded with. The Committee on Preservation of Historic Monuments reported that the work of restoring Congress Hall was proceeding satisfactorily under contract. It further reported the important fact that the committee were in consultation with the city authorities about the Old Market House at Second and Pine Streets, the rumor having been circulated that it was to be demolished. The committee will make recommendations for the retention and use of this attractive old landmark. It was also reported that the committee expected in the near future to visit old Fort Mifflin on the Delaware River to make an examination of the historic buildings there.

Mr. Day also made a general report for the Committee on Municipal Improvements, of which he is chairman.

In the absence of the chairman of the Committee on Education and Program, the president announced that preparations are under way for the entertainment of the State association and visiting members of the other chapters in the State at the next meeting in April at which an informal dinner will be given in connection with the meeting.

The president announced that committees of the chapter had been in consultation with the municipal authorities about matters of importance, among them being the standardization of certain city specifications, municipal tree-planting, relief of traffic congestion. Letters from city officials concerning these and other matters were read to the meeting.

The president also reported that he had attended the meeting before the Congressional Committee in Washington relative to the proposed Lincoln memorial. As Mr. Medary, who was present, had also attended this meeting in his capacity as a director of the Institute, he was called upon to relate the details of the testimony before the Congressional

Committee, which he did. As a result it was shown that the advocates of a "Memorial Roadway" were forced to admit that the appropriation under discussion before the committee would only build an ordinary roadway thirty feet wide by eight inches deep without paying anything for right of way or other necessary incidentals. It was even conclusively shown, and admitted by the roadway advocates, that a memorial roadway such as they proposed would cost very much more than the apparently large estimate of cost put forth by the Institute and others.

Mr. Day was called upon to speak about the "Standard Documents of the Institute" as announced in the call for the meeting. Mr. Day took up in order the schedule of charges, code of ethics, code of competitions, general conditions of specifications, contract forms, etc.

During the course of his remarks he invited discussion which brought out further information of value to all practitioners and showed how useful the documents of the Institute are and how in proportion to their general adoption they can be of great help to every member of the profession.

Among those who took part in the discussion, Mr. L. V. Boyd called attention to advisable modifications in, or rather additions to, the Institute schedule of charges to make it of even greater practical value to the architects and their clients in Philadelphia.

Upon motion it was decided to create a new committee of the chapter, to be known as the "Committee on Practice," to be charged with the preparation of a revised schedule of charges for the Philadelphia chapter, which schedule should conform to all the provisions of the Institute schedule.

Mr. D. K. Boyd moved that it should be charged with the preparation of the documents which had been advocated at the last meeting, namely, a form of understanding, not agreement, between the client and architect, setting forth the "principals of practice," a combination, as it were, of the schedule, the code of ethics, and the code of competitions, the same to be incorporated, if favorably considered by the committee, with the proposed chapter schedule. The motion was adopted.

After further discussion the meeting adjourned.

American Federation of Arts

The preliminary program of the third annual convention of the American Federation of Arts has been issued. This convention will be held at Washington the 9th, 10th and 11th of May, in the auditorium of the New National Museum.

Addresses will be made and papers read and discussed, by men prominent in art and identified with the very progressive movement that is doing so much to increase a proper and respectful appreciation of good art in this country.

Annual Exhibition, Carnegie Institute, Pittsburgh, Pa.

The sixteenth annual exhibition of the Carnegie Institute of Pittsburgh will be opened early this spring. The International Jury, recently appointed, will meet on April 4th, to select the paintings and award the three medals.

The French Juror selected is M. H. E. LeSidaner, the English Juror Sir Alfred East, while the Americans selected to serve are John W. Alexander, William M. Chase, Charles H. Davis, Ben Foster, W. Elmer Schofield, Gardner Symons and Edmund C. Tarbell.

Mr. John W. Beatty, director of Fine-Arts, will be president of the Jury.

Indianapolis City Hospital Competition

It is stated in the local press, that on the recommendation of Professor Warren P. Laird, professional adviser, the Board of Public Works has made awards in the city hospital competition as follows:

First prize and the commission to execute the work, Adolph Scherrer; second prize, Robert R. Foltz; third prize, Brubaker & Stern; fourth prize, Vonnegut & Bohn.

Los Angeles Architectural Club Exhibit

The exhibit of the Los Angeles Architectural Club, which closed on March 15th, was marked by an attendance that was both large and appreciative.

The ample space provided by the galleries in which the exhibition was held, permitted an arrangement that enabled visitors to view the exhibition comfortably and leisurely.

A feature of the exhibition that was regarded with much interest by the lay visitor was the section set apart for the display of building materials. This afforded an opportunity to study the application, in an artistic way, of materials in the modern building as shown in the excellent examples of recent architectural achievement on the Pacific Coast, that were hung on the walls throughout the galleries.

The exhibition of so great an amount of architectural work tends to the better and higher education of the people in the very material progress that is going on about them, and aids architects in securing from clients that co-operation that is essential to the best results.

A Correction

Through oversight, the Norfolk Y. M. C. A. Building, photographs of which were published in our issue of February 28th, was credited solely to Mr. R. E. Mitchell, Architect. Messrs. Wood, Donn & Deming, were associated with Mr. Mitchell in this work and their names should have been included with that of Mr. Mitchell, as architects of this building.

INDUSTRIAL INFORMATION

IN this section will be found information concerning late catalogues issued by manufacturers of building materials, fixtures or equipment. Also under this head will be printed, from time to time, certain data relative to new devices or methods of construction considered to be of interest to architects. Architects are invited to make use of THE AMERICAN ARCHITECTS Catalogue Files and Information Department whenever they can do so to advantage. Any assistance we can render or information we can furnish in this connection will be freely given.

Wall Hangings

The M. H. Birge & Sons Co., of Buffalo, New York, whose branches are in principal cities, are makers of a line of wall papers and hangings that would seem to present unusual artistic effects. In fact, the wide range covered by these specially designed hangings afford architects opportunities in the decorative treatment of interiors that will doubtless be appreciated. So comprehensive is the line that every period of decorative treatment can find representation, and in some cases, of periods now most in vogue, a line that offers a wide field for selection.

To acquaint the architect with the merits of their hangings and in order to get in closer touch with him, that they may be able to at all times anticipate his needs, and produce as nearly as possible just what is desired, the M. H. Birge & Sons Co. have established a department for direct communication with architects.

Through the department the architect will be enabled to have executed his own designs in wall decoration, and also avail of what is claimed to be the largest collection of printing blocks in this country, from which specially chosen colors may be printed.

A fuller explanation of this new department will be furnished to architects on request, together with a comprehensive collection of samples.

Vacuum Pumps

The Sparks System of Positive Steam Circulation, made by The Automatic Vacuum Pump Co., of St. Louis, Mo., is an apparatus designed to supply the largest possible vacuum, combined with simplicity and reliability of construction. The makers assert in a pamphlet recently issued that this apparatus does not require oiling, has not elaborate valves and mechanism to get out of order or require unusual care and is capable of producing a desired degree of vacuum.

They further declare that it is adaptable to buildings of any nature, especially those where absolute noiselessness of operation is necessary.

Pamphlet describing and illustrating this system may be had on application.

Faucets

The neat housewife will appreciate a faucet that does not permit the water to splash or spatter, that is simple in its operation and construction, and she

will also appreciate the thoughtfulness of the architect who specifies it.

The Haines, Jones and Cadbury Co., 1130 Ridge Avenue, Philadelphia, are makers of the Hajoca "Quick" Faucet, which they claim possesses the above described features. These faucets, it is stated, have been placed in important hospitals, clubs and hotels, and in many private houses, where their operation is said to have been satisfactory.

Pamphlet describing this faucet and other plumbing features made by this Company will be forwarded on application.

Steam Heating

The Philadelphia Steam Heating Co., of 1313 Cherry Street, Philadelphia, Pa., are designing and constructing engineers and jobbers and dealers in power plant equipment.

They offer their services to architects in the solution of steam heating problems of every nature.

Their work, it is claimed, is in successful operation in many important structures, and they believe in view of their experience and the facilities under their control, that they can afford the utmost efficiency in service.

Mantels and Grates

The artistic and sanitary features of mantels and grates as employed in open fire places are conceded.

Designers have employed brick in fire place construction in the most artistic manner and its adaptability to artistic expression and its harmony with varying forms of decorative treatment has resulted in many very desirable effects.

The LaSalle Pressed Brick Co., of LaSalle, Ill., has recently issued an illustrated pamphlet giving a number of excellent designs for brick mantels constructed from brick of their manufacture, together with suggestive hints for grates and the usual fire place accessories.

The book is to be had on application.

Castors

Many a good floor has been marred beyond repair by poor castors. Their wheel surfaces are not smooth or through faulty method of manufacture they refuse to revolve.

The Burns & Bassick Co., of Bridgeport, Conn., are makers of an extensive line of furniture trimmings. Among these is a line of castors sold under

the registered name of "Feltoid." These casters, it is claimed, obviate many objections to some forms; they are made with a soft tread and the movable parts are provided with ball-bearings. It is claimed that their action is noiseless, positive and that it is impossible for them to mar the floor or harm rugs or carpets on which they may be used.

Revolving Doors

An interesting type of revolving door is manufactured by the Van Kannel Revolving Door Co., Fuller Building, New York. An illustrated catalogue recently issued shows seven different positions in which this door may be placed, either in the usual way, or other various adjustments, one giving it is claimed, a maximum opening affording unobstructed egress or ingress.

A panic proof style of revolving door, made by this Company, is, it is stated, so constructed as to obviate objections sometimes made as to the location of this type of door in certain exits.

In addition to the usual forms of three and four wing doors, there is illustrated a six wing door. This door is designed for use where the full benefit of the entire opening is desired, and where the opening is, at the same time, too small to permit the installation of two separate revolving doors. It is stated that the capacity of this type of door is 7,000 people an hour, which would seem to make it adaptable to entrances and exits of department stores, railway stations and similar places where the traffic is constant and heavy.

An interesting application of the revolving door principle to a utility is shown in a revolving pantry window, recommended as serving all the purposes of the ordinary type and at the same time preventing the passage of fumes and noise.

Otis Elevators

The Otis Elevator Co.'s monthly publication "The Indicator" is issued in the interest of their business and to provide general information as to the improvement in various types of elevators and the machinery used in their installation.

It is an interesting monthly record of a large and rapidly growing industry. It provides a means of keeping in touch with latest practice and developments.

Girderless Floors

The flat slab, or girderless floor, is one of the most recent developments of reinforced concrete construction. While new in its application probably a sufficient number of practical examples have been constructed to permit of an analysis of its merits

and the forming of an opinion as to its availability in modern construction.

It is obvious that ceilings that have no beams materially add to both the head room and the light of an interior, and it is also easily demonstratable that the low cost of centering and the comparative simplicity of steel reinforcement makes this form of construction particularly desirable for many types of buildings.

While in some forms it may be impossible to determine with absolute precision the internal stress in a floor slab, constructed on the flat ceiling principle, it is generally considered that enough confidence can be placed in the formulas to enable the designer to guarantee a reasonable degree of safety without extravagant use of reinforcing steel.

A departure from accepted methods naturally provokes the close scrutiny of thoughtful men, who while anxious to avail of every new thing that will add stability and efficiency in construction are led by experience to seek the most convincing proofs.

The Aberthaw Construction Co., Boston, Mass., general contractors for concrete construction work, have republished for free distribution an address by Mr. Angus B. Macmillan, read before the Sixth Annual Convention of the National Association of Cement Users. This address covers the technical points in the construction of this type of floor, and exhaustively treats of the topic.

Building Progress for March

Building Progress for March, issued by the National Fire Proofing Co., is an interesting issue.

The leading article—well illustrated—describes the construction of the new Insurance Exchange Building in Chicago. An article on "Building Up a New Firm," states the difficulties and suggests certain remedies for the vexations that always surround the launching of a new business.

Mr. Melville McPherson continues a series on the Spanish Renaissance in America, and there are a number of illustrations of designs contributed in the competition for a small house to be built of "Natco" hollow tile, the name given this Company's product, to cost \$6,000.

Copper Clad and Insulated Wire

The Standard Underground Cable Co., of Pittsburgh, Pa., manufacture many forms of wire for use in electrical circuits, some of which, it is claimed, they originated.

The types of wire and cables are each illustrated and described in a series of pamphlets, which give full particulars of the specific application intended. These pamphlets are instructive and can be of use in determining selection and character of wire to be employed when specifying. The pamphlets will be sent on request.

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

BIRMINGHAM.—R. D. Burnett has purchased site at 1818 Second Ave., and is planning erection of commercial house. It is stated that Architect Harry Wheelock, Steiner Bldg., is now preparing plans for building, to cost about \$100,000.

ARIZONA

CLIFTON.—The school board of Clifton has accepted the plans presented by Architects McNeil and Wilkinson of this city, and bids for the construction will shortly be called for. Three buildings in all will be erected; a high school structure, a two-story grade school for Chase Creek district and a one-story building for the Shannon school.

CALIFORNIA

LOS ANGELES.—Church edifice to cost \$100,000 will be erected on Hill St. by the Fourth Church of Christ Scientist. B. T. Kraner is president.

Board of Education has called for bids on following buildings: Twelve-room building at Thirty-eighth and Wadsworth Sts., estimated cost \$40,000; sixteen-room building, Forty-ninth and McKinley Aves., \$60,000; four-room building, Sulphur St. and Cypress Park, \$20,000; auditorium building at Macy Street School, \$10,000.

RIVERSIDE.—A call has been posted asking for bids for the new Federal building to be erected on the corner of Orange and Seventh Sts. These bids will have to be received in Washington before April 23. There is \$119,000 available for the buildings, which will cover 6200 square feet, and be of the mission type of architecture.

SACRAMENTO.—Fred G. Nutting, proprietor of the Manyx rooming house at Third and J Sts., has started a movement for the erection of a \$50,000 auditorium and convention hall, to be built in this city, between Fifteenth and Eighteenth, G and T Sts.

CONNECTICUT

BRIDGEPORT.—Work is well along on the plans for the new plant of the Birdseye-Somers Co., which is to be built at the corner of Summerfield St., Grant St. and Barnum Ave. The plans are by Architect J. E. Nitchie, 150 Nassau St., New York. T. F. Somers is president and W. J. Reid general superintendent of the plant.

Architect A. S. Meloy, P. O. Arcade, has completed the plans and estimates are now being made for the three-story building on Hallett St. for Hermann Frankel.

Plans drawn by Architect William Schmidt are being figured for a new house on Vine St. for Marie L. Whiting.

Architect Leonard Asheim has completed plans for changes to a building on East Main St. for Samuel Bernstein.

Plans drawn by Architect T. F. Kelley, 107 Wall St., are being figured for the handsome store and apartment building to be erected at the corner of East Main and Nichols Sts. for Harvey Harding, trustee. The structure will be four stories high, of brick and steel.

BRISTOL.—The Pope Manufacturing Co. has planned to erect large addition to plant on Capitol Hill.

HARTFORD.—Architect Louis A. Walsh, 51 Leavenworth St., Waterbury, will have plans completed this week for the convent building to be erected in Hartford, on Park St., for the Sisters of St. Joseph.

DISTRICT OF COLUMBIA

WASHINGTON.—A three-story apartment house will be erected at 402-404 H St. N. E. for William J. Weber. There will be a store on the ground floor and the two upper floors will contain one apartment of six rooms and one of five rooms.

The building at 1340 New York Ave., occupied by the offices of the Remington Typewriter Company, will be enlarged to be used for the offices of the combined business of the Remington, the Monarch and the Smith Premier companies. A three-story addition will be erected. Plans for this improvement have been made by B. Stanley Simmons, architect.

A parish building of Gothic type is being designed by F. A. Kendall and Arthur B. Heaton, architects, to be built adjoining St. Alban's Church, in the close of the Protestant Episcopal Cathedral.

GEORGIA

SENOIA.—Bonds for \$15,000 have been voted for erection of up-to-date school building. Contract for erection of same will shortly be awarded by building committee of School Board.

ILLINOIS

BELLEVILLE.—Plans for the reconstruction of St. Peter's Cathedral, destroyed by fire recently, have been completed. Work will begin on the new edifice without delay.

CHICAGO.—The Presbyterian hospital of Chicago will erect a six-story nurses' home and school to cost approximately \$250,000 on a site on West Congress St., between Hermitage Ave. and Wood St. J. G. Rogers is the architect who is designing the plans.

James O'Leary is having plans prepared for a store, office and theater building at South Halsted St. and West Garfield Boulevard, which is to cost about \$200,000. The plans are being drawn by Architects Ottenheimer, Stein & Reichert, 134 Monroe St.

Samuel Kohn has purchased the vacant lot at corner of East Forty-seventh St. and South Michigan Ave. It is Mr. Kohn's intention to improve the Forty-seventh St. frontage with a store and office building and the inside Michigan Ave. frontage with a six-apartment building, both improvements to cost about \$100,000.

PALMYRA.—The First National Bank will erect handsome office building.

INDIANA

EVANSVILLE.—Preparations will soon be begun by the F. Grote Manufacturing Co. for the erection of buildings on Outer Washington Ave. to cost over \$50,000; estimated cost, \$50,000.

Plans for an apartment house to be built at Mulberry St. and Riverside Ave. by Rev. Hamilton A. Hymes, which, when completed, will be the biggest apartment house in the city, are being drawn by Architect Clifford Shopbell, Furniture Bldg.

The plans for the new Simpson M. E. Church will shortly be completed by Architect Shopbell, Furniture Bldg. Bids for the contract will be let by the church trus-

You Are Sure of
Cabot's Creosote Stains

They have been the standard for more than twenty-five years. Their colors are soft, rich and beautiful, and guaranteed fast. They are made of Creosote, which thoroughly preserves the wood, and they contain no kerosene or other cheapener. Accept no substitution of unknown stains, because you are sure of Cabot's.

Special Shades on Request

Samuel Cabot, Inc., Mfg. Chemists, Boston, Mass.
1133 Broadway, N. Y. 350 Dearborn Ave., Chicago

Agents All Over the Country
Cabot's Quilt, Waterproof Cement and Brick Stains,
Conserve Wood Preservative



Stained with Cabot's Shingle Stains.
Wm. A. Bates, Architect, N. Y.

▼ **THE L. SCHREIBER & SONS CO.** ▼

STRUCTURAL STEEL  **CINCINNATI**  **ORNAMENTAL IRON**

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

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., General Western Agents
Novelty Electric Co., Phila., Pa. F. D. Lawrence Electric Co., Cincinnati, O.



TRADE MARK.
REG. U. S. PATENT OFFICE.

Pettingell-Andrews Co., 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"



HOLT BLDG, NEWARK, N. J.

Flood the Basement With Pure White Daylight

The "Sun Burst" system of Vault Lighting as shown in the illustration, gives a flood of pure white daylight in every corner of the basement.

The entire area contains *100 per cent.* under-surface of glass and eliminates the objectionable shadows cast by the ordinary systems.

The advantages of using Sun Burst Vault Lights are its positive strength and safety. Every prism of glass is reinforced with concrete, and not a particle of metal is exposed to rust.

Write your "Vault Light" problems to us and we will give you our experience on this subject. Our catalog on "Sun-Burst Prisms" is free for the asking

SUN-BURST PRISM COMPANY

Main Office: 243 South 10th Street

PHILADELPHIA, PA.

1118 Broadway, Brooklyn, N. Y.

tees as soon as possible in order that the building may soon start.

GARY.—Interurban lines entering Gary plan to erect a \$100,000 traction terminal station at Broadway and Eleventh Ave. Four interurban lines now enter Gary, and two more are building toward the city.

MONROEVILLE.—The Lutheran congregation has purchased site of the Reidelsheimer estate at the corner of South and Ohio Sts. and will erect a church building and possibly a parsonage on it this summer.

PRINCETON.—Local architects are drawing plans for a \$60,000 grade and high school for Princeton, Ind. The school is to be built with two floors and a basement.

IOWA

ARTHUR.—Architect George W. Burkhead, Iowa Bldg., Sioux City, has completed plans and is now taking bids for the erection of a bank and lodge building. The contract will be let April 15. The building is to be stone construction and will cost around \$10,000.

CLEAR LAKE.—Architects Jeffers & Trafzer, of Mason City, Iowa, were the successful competitors in the competition for plans for the high school building. The building will be built along the latest lines of school construction. Cost \$50,000. The plans will be ready by April 25.

COUNCIL BLUFFS.—Plans have been completed for the \$45,000 addition to the high school. Architect F. E. Cox, Council Bluffs.

DES MOINES.—The Davidson Bros. Co. has completed plans for its new building, to cost \$60,000, and equipped with machinery costing \$15,000, which will be erected at Third St. and the Rock Island tracks.

WATERLOO.—Plans have been prepared for erecting two school buildings, one in East Waterloo, and one in West Waterloo, the latter will be of concrete construction and fireproof throughout. Cost \$25,000, each.

KENTUCKY

LEXINGTON.—The Combs Lumber Company has under contemplation the plans for a three-story business building to cost about \$30,000, which Mr. J. M. Kelly, president of the Lexington Banking & Trust Company, proposes to erect at 226 East Main St.

LOUISVILLE.—The new Waverly Hills Hospital for tubercular patients will have accommodations for 100 beds. Plans for the erection of the hospital have been completed by Architects Joseph & Joseph, Commercial Bldg., and bids will be received on April 29 by the Board of Tuberculosis Hospital. The Board of Hospital Commissioners appropriated \$25,000 for the construction of the new institution.

Plans for the three-story apartment house to be erected by the Thierman Realty Co. have been filed. The estimated cost of the new building is \$90,000.

OWENSBORO.—The committee of the Masonic order has rejected all bids received for erection of new \$100,000 building, and will readvertise at once for new bids.

SHARPSBURG.—Sealed bids will be received by Owen Ratliff, chairman of the Board of Education, Sharpsburg, Ky., for erection of a school to be built in Sharpsburg, Ky., plans for which are on file at the office of the architect, E. Stamler, 303-304 Merrick Lodge Bldg., Lexington, Ky.

LOUISIANA

LAKE CHARLES.—Bids will be received until 12 o'clock noon, April 25, 1912, for the erection of any one of or all of the four two-story and basement brick school buildings at Lake Charles, La. Plans and specifications and conditions for estimating can be had at the office of Favrot & Livaudais, Ltd., Architects, 839 Gravier St., New Orleans, La., and can be seen at the office of E. S. Jenkins, superintendent.

MAINE

BANGOR.—Architect C. Parker Crowell, of Bangor, has prepared plans for 3-story workingmen's hotel to be erected at French & York Sts. by the Salvation Army.

BIDDEFORD.—Plans are now being perfected by Architect Charles Russell Lombard, of Portland, for a new summer hotel structure at Old Orchard, the cost of which is estimated at about \$12,000. The hotel is to be built and owned by John F. Hutchinson, of Old Orchard, and is to occupy the site of the famous old Brunswick House.

MARYLAND

BALTIMORE.—Architect Theodore Wells Pietsch, American Bldg., has completed plans for a new apartment house to be erected by Dr. Thomas A. Ashby on Dolphin St., near Madison Ave. The plans call for a 3-story structure, which will cost \$15,000.

Samuel F. Dixon, of Philadelphia, is considering site for erection of new theater with seating capacity of 3,000 people. It will be known as the Nixon Theater.

The Provident Realty Corporation will erect three handsome cottages on Roslyn Ave., near Bateman. The plans were made by Architect Henry J. Tinley, 314 N. Charles St., and the total cost will be \$13,500.

George Spindler will erect a large four-story warehouse at 608-610 W. Pratt St. It will cost about \$12,000. Architect Henry E. Feldhaus made the plans.

The trustees of St. Wenceslaus' Church have commissioned Architect Robert C. Ullrich, Gunther Bldg., to prepare plans for a new edifice to be erected at Collington and Ashland Aves. to cost \$100,000.

MICHIGAN

DETROIT.—A. A. Little, Peter Osterhout and P. A. Belleperche, of Windsor, have purchased property on Pitt St. east, and will erect business block to cost about \$56,000.

MINNESOTA

CROOKSTON.—At a joint meeting of the Commercial Club directors, the School Board and a number of leading citizens, a resolution was unanimously passed asking the School Board to call a special election April 10 to vote on \$200,000 bonds for the erection of a magnificent new Central School building to be erected at the earliest possible date.

DULUTH.—Swanstrom Bros. will erect a three-story brick block at Twenty-first Ave. W. and First St. to cost \$35,000.

A. H. Berg & Company is contemplating erection of a five-story business block at Twenty-fourth Ave. W. and Superior St. Only three stories are to be built this year; to cost \$20,000.

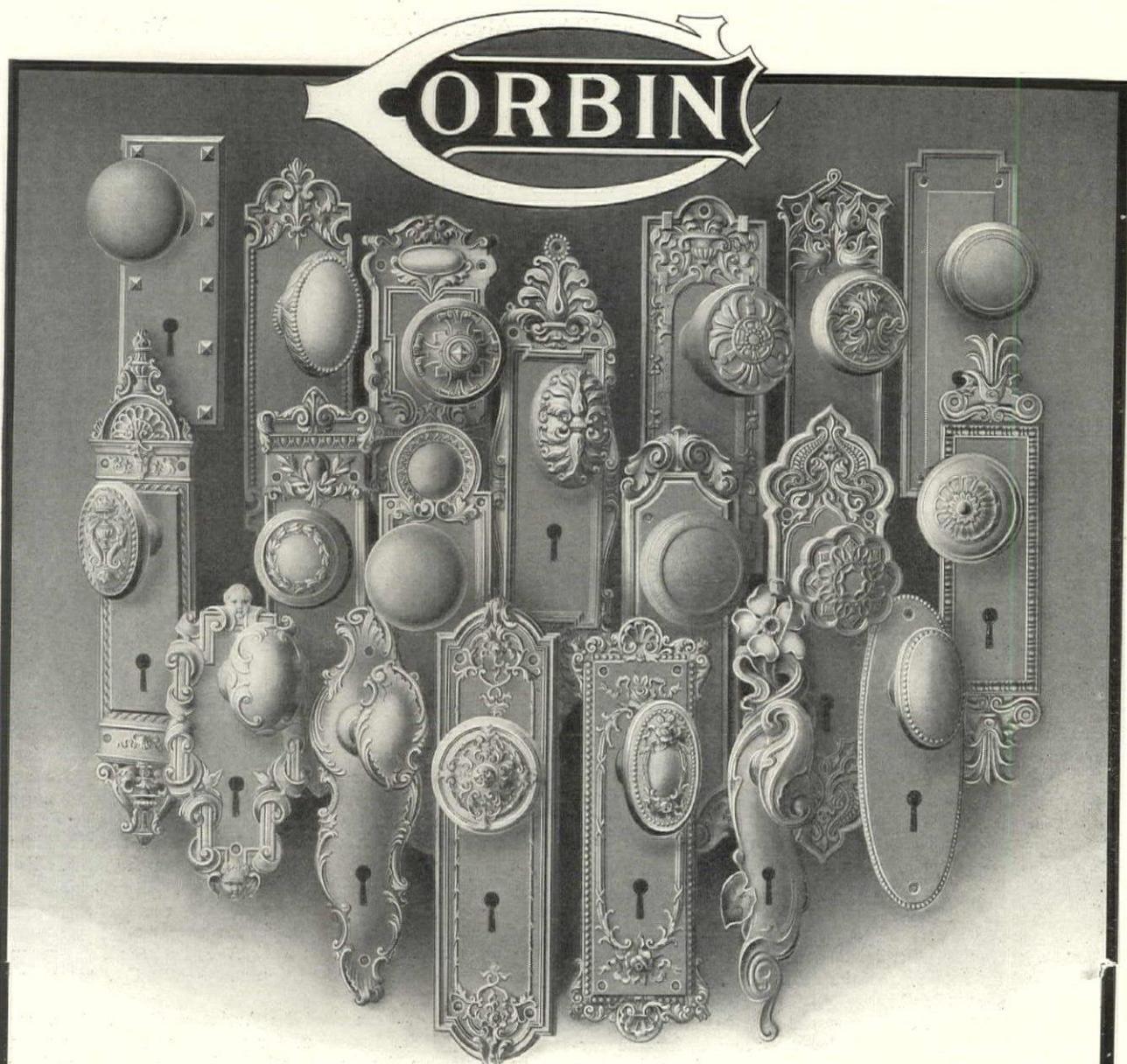
HARMONY.—The Norwegian Lutheran congregation has had plans prepared by Architect Andrew Roth, La Crosse, Wis., for a brick church building. Cost, \$16,000.

MINNEAPOLIS.—A new theater will be built on Hennepin Ave. by T. J. and J. W. Considine, owners of the Sullivan-Considine theatrical circuit. Part of the building may be occupied by a large restaurant conducted by S. R. Child of New York.

A nurses' home will be built at the city hospital to cost \$100,000 on plans drawn by Long, Lamoreaux & Long, 830 Hennepin Ave. to conform to the general architecture of the institution.

Architects Kees & Colburn, Donaldson building have prepared plans for the \$20,000 addition to the L. S. Donaldson residence. The addition will be of stone, brick and tile, with stained and leaded glass.

Preparations have been made to enlarge the Central high school to accommodate 1,500 pupils. Architects Hewitt & Brown, 714 4th Ave. S., have been engaged to



Hardware True to School

of design for rooms ornamented in the art of different periods. The Corbin "design leaflets" illustrating the different patterns, sent upon request.

P. & F. CORBIN

Division

The American Hardware Corporation

NEW BRITAIN, CONN.

P. & F. CORBIN of Chicago P. & F. CORBIN of New York P. & F. CORBIN DIV., Philadelphia

prepare plans for the new building. A new wing for the West high to cost \$60,000 is under discussion by the school board.

Guy Thomas will erect a building at 7th St., Western and 1st Ave. N., to occupy a triangular lot about 120 feet on each street. Total cost about \$35,000. Two sets of plans are being prepared by the architects, Long, Lameroux & Long, 830 Hennepin Ave.

SILVER LAKE.—Bids will be received by the State Bank until 8:30 April 15 for the erection of a bank building.

ST. PAUL.—The East End Commercial Club building will erect 2-story structure on West Seventh St., between Jefferson and Erie Sts., at cost of \$15,000.

ST. PAUL.—The McArthur department store building, 96-104 E. 7th St., will be remodeled at a cost of \$30,000. Architect James F. Denson, Germania Life building. John Mann is general contractor.

WAHKON.—Architects Ellerbe, Round & Sullivan, 692 Endicott Arcade, St. Paul, are preparing plans for the proposed eight-room school building to be erected at Wahkon. Plans will be out for bids about April 30.

MISSOURI

ST. LOUIS.—University City Board of Education is discussing plans for a new high school building which will be voted on shortly. The plan is to vote a \$60,000 bond issue for an 8-room, thoroughly modern building.

The St. Louis Amusement & Mercantile Co. was incorporated yesterday to erect a mercantile and office building at corner of Delmar and Bayard Aves. The structure will cost about \$50,000 and will be started about Sept. 1. The incorporators are: Samuel Ryan, C. S. Ehrhardt, Oliver P. Langan, W. E. Warren and L. C. Lane.

ST. LOUIS.—Voters of Hester District have instructed the Trustees to have plans prepared for new school building, to cost about \$60,000. The Trustees are Hugh Center, W. E. Blauer and H. C. Jones.

MONTANA

GLENDIVE.—Charles Skooglun, New York Life Bldg., was awarded the general contract for the erection of the new hospital building for the Northern Pacific Beneficial Association, at Glendive, Mont. Cost, \$100,000. Architects, Reed & Stem, 601 Endicott Bldg., St. Paul.

NORTH BEND.—A site has been purchased for the Carnegie library and Architect A. Lincoln, will draw the plans for the building.

NEW JERSEY

NEWARK.—Bids will be received at the office of the school board between 4 and 4.15 o'clock p. m., April 16, 1912, for the construction, complete, of the Miller St. School House Addition. R. D. Argue, secretary.

NEWARK.—Estimates are being received by John B. Warren, as architect, for a 3-story brick store and apartment building which Peter Wludyka proposes to erect at 141 Belmont Ave.

Architect John B. Cella has completed plans for a 5-story brick store and apartment building which Tobia Santoro and Louis Sollmine will shortly erect on the northeast corner of Bergen St. and Fourteenth Ave., at a cost of about \$35,000.

Ground will shortly be broken on corner of Milford Ave. and Bigelow St. preparatory to the erection of a 4-story brick \$30,000 apartment building which will be owned by Jacob Frankel. Architect Hyman Rosensohn, 800 Broad St., designed the structure.

WEST NEW YORK.—The general contract for a store and apartment building on Sixteenth St. and Tyler Place, and four apartment houses on Sixteenth St. between Palisade Ave. and Broadway, West New York, has been awarded by William Walser to Tony Buglis of West Hoboken. The cost of the buildings will be \$99,285.

NEW YORK

BROOKLYN.—Borough President Steers has signed the architects' contract with McKenzie, Voorhees & Gemlin for the drawing of the plans for the new \$3,300,000 Municipal Building, to be erected in Brooklyn.

BROOKLYN.—The F. A. Clarke Co. has closed a lease with the Benedict Amusement Co. for a site, forming part of the old Barnum & Bailey circus grounds at Halsey St., near Broadway, Brooklyn, for a new theater, which will be known as the Halsey. It will be similar in design to the DeKalb Theater. The owners of the house are also contemplating the erection of an amusement hall on part of this property.

BUFFALO.—Proposals for a Hospital Building for the State Institute for Malignant Diseases, corner High and Oak Sts., Buffalo, N. Y., will be received by Dr. Roswell Park, Chairman, Board of Trustees, State Institute for the Study of Malignant Diseases, Gratwick Laboratory, 113 High St., Buffalo, N. Y., until 12 o'clock noon, on April 10th, 1912. Plans may be inspected at the office of George Cary, architect, 184 Delaware Ave., Buffalo, N. Y.

HERKIMER.—Electors of school district have voted in favor of erection of \$85,000 high school building on North Belling and German Sts.

LION.—Architect William T. Towner, of New York, met the Board of Education and submitted sketches of the tentative plan made up especially for the proposed new high school. The estimated cost of building, with a capacity of 400 students, would be \$90,000, which, with a suitable site, would bring the estimated cost to about \$100,000, and would fill a long-felt want in this village.

NEWBURGH.—Plans for a Labor Temple have been presented by Architect Frank E. Esterbrook at a meeting of the trustees and the building committee of the Central Labor Union. It was decided to erect a 90-foot building on Liberty St., between Washington and Ann Sts. Estimated cost, \$15,000.

NEW YORK CITY.—Architects Rouse & Goldstone, 35 West 32d St., have filed plans for twelve-story apartment building to be erected on Park Ave., between Fifty-second and Fifty-third Sts., for Montana Realty Co., 135 Broadway; cost, \$1,250,000.

Plans have been filed by Architect O. M. Beck, 1349 Fifty-third St., Brooklyn, for nine-story storage house to be erected on Twenty-seventh St. for Terminal Warehouse Co., 17 S. William St.; cost, \$65,000.

Architects George & Edward Blum, 505 Fifth Ave., have filed plans for five-story brick stores and apartment to be erected on Vyse Ave., corner 180th St., for Arc Realty Co. (T. W. Shamberg, 15 William St., president); cost, \$70,000.

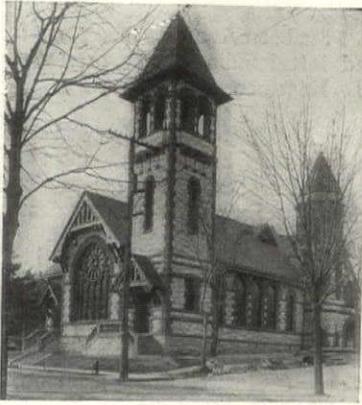
Plans have been filed by Architects Moore & Landseidel, 148th St. and Third Ave., for five-story brick apartment to be erected on Tiffany St. for Steinmetz Construction Co. (S. B. Steinmetz, 1416 Glover St., president); cost, \$50,000.

Plans have been filed by Architects George & Edward Blum, 505 Fifth Ave., for five-story brick apartment to be erected on 180th St. for Arc Realty Co. (T. W. Shamberg, 15 William St., president); cost, \$35,000.

Architects Gronenberg & Leuchtag, 7 West Twenty-second St., have filed plans for alterations to two four-story dwellings on Madison Ave. for C. J. Smith, East Orange, N. J.; cost, \$15,000.

Plans have been filed by Architect J. I. Downey, 410 West Thirty-fourth St., for alterations to eight-story office building on Nassau St. for Mutual Life Insurance Co.; cost, \$20,000.

Plans have been filed by Architect Thomas W. Lamb, 501 Fifth Ave., for 4-story brick theater to be erected on Westchester Ave., for Lackman & Goldsmith, 35 Nassau St.; cost \$150,000.



St. PAUL'S M. E. CHURCH, NYACK, N. Y.
M. L. & H. G. Emery, Architects.
Floors lined with "Hydrex-Saniflor."



HYDREX-SANIFLOR Sound-Deadening and Insulating **FELT**

A coated, waterproofed, sanitary sound-deadening and insulating blanket, used in floors, partitions, roofs and under clapboards.

The old-school deadening felts, containing animal and vegetable matter, are feeding and nesting places for vermin and absorb moisture and odors. They are not hygienic.

HYDREX-SANIFLOR has a shell-like, flexible coating on both surfaces, which waterproofs and hermetically seals in the felt, making it non-absorbent, clean, sanitary and proof against moths, mice and other vermin, which cannot eat the coating. It is an unexcelled waterproof, warmth-giving blanket—a non-conductor of sound, heat and cold.

THE HYDREX FELT AND ENGINEERING COMPANY

Makers of Waterproof Felts, Building Papers, Roofings, Paints, Asphalts, etc.

NEW YORK, 120 Liberty St. Chicago, Rookery Bldg. Washington, Colorado Bldg. Factories, RAHWAY, N. J.

For sheathing and lining specify "NOVENTO" Waterproof Building Paper

Don't get "Skin-deep" quality



SILVER LAKE Sash Cord

When it comes to the point of Selection

The name Silver Lake A stamped on every foot of the cord guarantees the genuineness as the original solid braided sash cord that will outwear other cords, chains or ribbons.

SILVER LAKE COMPANY

BOSTON



WRITE FOR

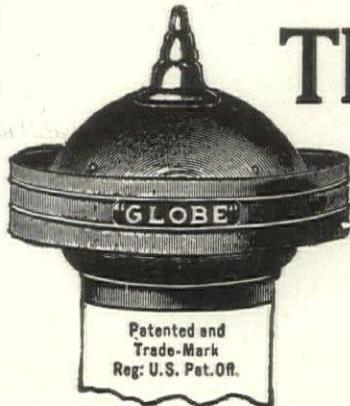
YEAR BOOK of the SOCIETY of BEAUX-ARTS ARCHITECTS (1909-1910)

\$2.00 POSTPAID

A few copies are still left of this work (originally selling for \$4.00), and to close them out we are offering these copies while they last, for \$2.00 each.

The volume is of especial interest to architectural Draftsmen and Students, and contains 49 Plates of Premiated Designs, working out in detail 35 interesting Architectural Problems. Full Programs and conditions given of these Problems.

Book Department, THE AMERICAN ARCHITECT, 50 Union Square, New York



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

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

GLOBE VENTILATOR COMPANY, TROY, N. Y.

NEW YORK CITY.—Architect M. W. Del Gaudio, 401 Tremont Ave., has filed plans for two 5-story brick apartments to be erected on Cambrelleng Ave., cor. 187th St., for Russo & Barba. (John Russo, 2383 Belmont Ave., president.) Cost \$75,000.

Architects Koppe & Daube, 830 Westchester Ave., have filed plans for three 5-story brick apartments to be erected on Aldus St., corner of Hoe Ave., for the Kovacs Construction Co. (Julian Kovacs, 293 Alexander Ave., president.) Cost \$125,000.

Plans have been filed by Architects Gronenberg & Lenchttag, 7 West 22d St., for 5-story brick apartment to be erected on Kelly St. for New Port Realty Co. (Max J. Klein, 35 Nassau St., president.) Cost \$35,000.

Architects Gronenberg & Lenchttag, 7 West 22d St., have filed plans for 5-story brick apartment to be erected on Tiffany St., for the New Port Realty Co. (Max J. Klein, 35 Nassau St., president.) Cost \$35,000.

Plans have been filed by Architects Gronenberg & Lenchttag, 7 W. 22d St., for 5-story brick apartment, to be erected on 163d St., cor. Kelly St., for the New Port Realty Co. (Max J. Klein, 35 Nassau St., president.) Cost \$55,000.

Architects Gronenberg & Lenchttag, 7 W. 22d St., for 5-story brick apartment to be erected on 163d St., for New Port Realty Co.; cost \$45,000.

Plans have been filed by Architects Gronenberg & Lenchttag, 7 W. 22d St., for 5-story brick apartment to be erected on 163d St., cor. Tiffany St., for New Port Realty Co.; cost \$55,000.

Architects Freeman & Hasselman, 39 W. 38th St., have filed plans for alterations to 5-story dwelling on 5th Ave., for P. Livingston, 115 East 63d St.; cost \$15,000.

Site on 44th St., West of Broadway, has been acquired by Winthrop Ames & Lee Shubert, who will erect at once two new theaters to cost between \$600,000 and \$700,000.

NEW YORK CITY.—Architects La Farge & Morris, 25 Madison Square North, have filed plans for twelve-story store and loft building to be erected on Fortieth St. for Yale & Towne Mfg. Co., 9 Murray St.; cost \$200,000.

Plans have been filed by Architects Goldner & Goldberg, 391 East 149th St., for two five-story brick apartments to be erected on Clay Ave. corner 173d St., for Mandell Construction Co. (Max Cohen, 1062 Morris Ave., president), cost \$100,000.

Architects Moore & Landsiedel, 148th St. and Third Ave., have filed plans for five-story brick apartment to be erected on 172d St., corner Park Ave., for Ernst Keller Construction Co., 415 E. 240th St.; cost \$35,000.

Plans have been filed by Architect Thomas W. Lamb, 501 Fifth Ave., for two-story brick theater to be erected on Tremont Ave. for Avenue Amusement Co. (William Fox, 116 East 114th St., president), cost \$200,000.

NEW YORK CITY.—Architect C. B. Meyers, 1 Union Square West, has filed plans for three 5-story apartments and stores, to be erected on 129th St. and Convent Ave. for Manchester Construction Co., 198 Broadway; cost \$150,000.

Plans have been filed by Architects Gronenberg & Leuchttag, 7 West 22d St., for 8-story store and loft, to be erected on 40th St. for M. Hoffman, 113 East 114th St.; cost \$125,000.

Architect C. B. Meyers, 1 Union Square West, has filed plans for two 5-story apartments and stores to be erected on Convent Ave. for Manchester Construction Co., 198 Broadway; cost \$100,000.

NEW YORK CITY.—Architects Nast & Springsteen, Jr., 21 West Forty-fifth St., have filed plans for two-story dwelling to be erected on Prescott Ave. for M. Paterno, 3058 Heath Ave.; cost, \$12,000.

Plans have been filed by Architect T. W. Lamb, 501 Fifth Ave., for eight-story store and loft to be erected on Beekman St., corner of Water St., for C. Lane, 30 Fulton St.; cost, \$75,000.

Architect D. E. Ward, 1 Madison Ave., has filed plans for fourteen-story store and loft building to be erected on Madison Ave., for E. L. Hageman, Mamaroneck, N. Y.; cost, \$125,000.

Plans have been filed by Architect Lucian Pisciotta, 337 East 146th St., for two four-story brick apartments to be erected on Hughes Ave. for European Construction Company (Angelo Di Benedeto, 541 East 182d St., president); cost, \$60,000.

Architects Harris & Richards, Philadelphia, Pa., have filed plans for alterations to one, four and five-story church, rectory and school for the Missionary Society of the Most Holy Redeemer in State of New York, 173 East Third St.; cost, \$41,190.

ROCHESTER.—The McCurdy & Norwell Co. is planning to erect 6-story granite front building on Main St. East and Elm St.; estimated cost \$125,000.

SYRACUSE.—Bids will be received by the State Fair Commission, Syracuse, N. Y., Tuesday, April 16, 1912, at 2 p. m., for erection of the Cattle Building. Plans and specifications will be on file at the office of Franklin B. Ware, State Architect, Capitol, Albany, N. Y.; at the office of the State Fair Commission, Post-Standard Bldg., Syracuse, N. Y., and at the office of Green & Wicks, 110 Franklin St., Buffalo, N. Y.

Architects are now working on tentative plans for an 11-story building to be used as a combination Masonic Temple and office headquarters for doctors and dentists. Options have been secured on property at East Fayette and Montgomery Sts., opposite St. Paul's Church. The cost of the proposed building, which is designed to be fireproof in construction and modern in appointments, is estimated at \$600,000, including the site.

OHIO

CINCINNATI.—A Cincinnati firm of architects will shortly prepare plans for proposed new Scottish Rite cathedral to replace present structure on Broadway, which has been condemned. Site on Sycamore St. is being considered.

CLEVELAND.—Architect J. Milton Dyer, Cuyahoga Bldg., will revise city hall plans, so as to bring cost of building within the \$2,600,000 estimate.

CLEVELAND.—Revised plans for new city hospital group have been submitted to Mayor Baker by Architect Myron P. Voice, Garfield Bldg. Estimated cost, \$1,240,000.

DAYTON.—M. J. Schaefer, residing on South Brown St., is engaged in tearing down the buildings at corner of Wayne Ave. and East Fifth St., with a view to erecting a \$75,000 business block.

SPRINGFIELD.—The Board of Education will receive sealed proposals for the erection of brick school building, School District No. 9, about 3 miles West of Springfield, Ohio, being on the site of present Rockway school. Plans and specifications are now on file in the office of clerk of said board, and in the office of Architect R. C. Gotwald, Springfield, Ohio. Walter Kerin, Clerk.

SPRINGFIELD.—Bids will be received at the office of the clerk of the Board of Education of the Springfield School District, at the rooms of the Board in the new high school building until 12 o'clock noon, April 30, 1912, for the erection of a 2-story brick addition to the Lagonda School building, situated on North Belmont Ave.; also for one, and for a two-room frame addition to the Frey School building, situated in the Frey addition. W. S. Meredith, Chairman.

The new Central Methodist Episcopal Church will be erected on High St. Architect E. W. Russ, of Dayton, has been given the contract of preparing the plans.

TOLEDO.—New factory buildings to cost more than \$100,000, will be built by the Owens Bottle Co. and the Kent Machine Co. as soon as Council vacates 60 feet on Lindsay St. for the Owens Co.

Build for YOUR Factory Walls of Daylight

Gloom is the tomb of efficiency!

It is time that somebody told the plain facts on this matter of Factory Lighting and Factory Ventilation in letters black enough and statements bold enough to awaken the Manufacturing World to a full realization of the vital truth.

You put a crystal roof over your roses. You wall them with glass. You flood them with sunshine so that they will grow and thrive.

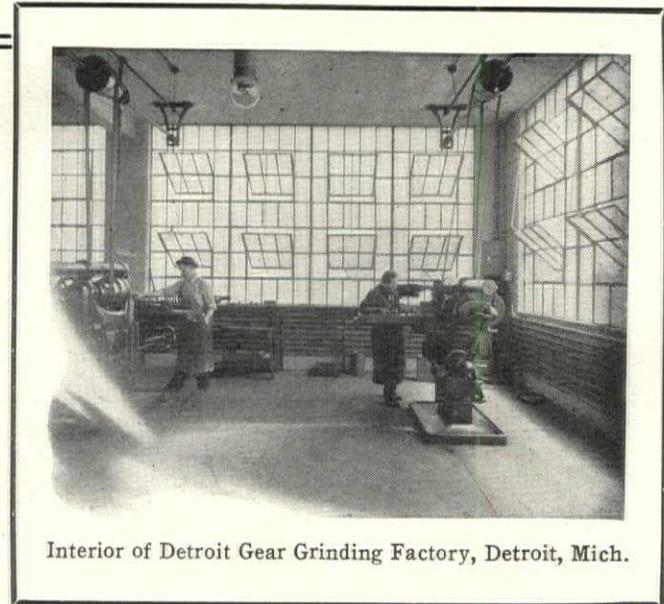
Do you realize that the human plant is just as dependent for energy upon the sun's rays and streams of pure, invigorating air?

This is not philanthropy. It's cold, hard business sense.

Keep your workers in semi-darkness, straining under artificial light, breathing vitiated air—and they'll shrivel and starve for want of sunshine and oxygen, Efficiency ebbs. There's a let-down in production.

Turn on the sun—let in the air, and your men will be up to mark—keyed to full capacity—from whistle to whistle. You will have higher average attendance.

Detroit-Fenestra PATENTED Solid Steel Windows



Interior of Detroit Gear Grinding Factory, Detroit, Mich.

Detroit-Fenestra Solid Steel Windows give your workers floods of sun and breeze through fireproof walls of Daylight.

It's the modern construction—for factories that will keep the Twentieth Century Pace.

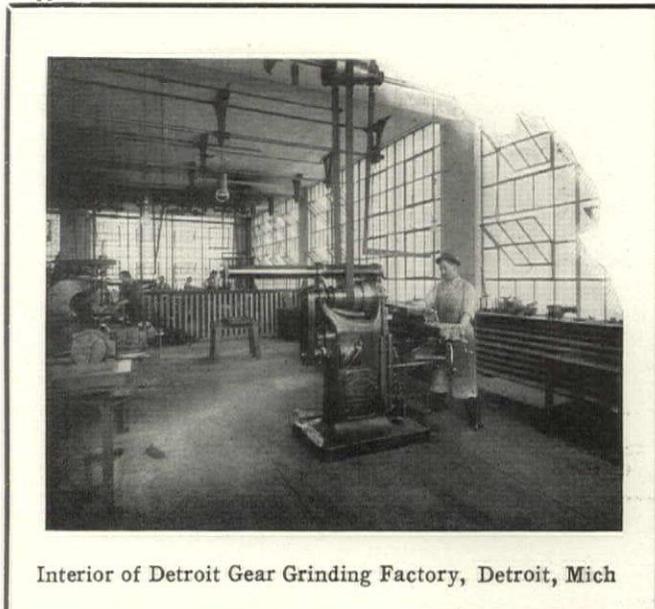
Its abundant ventilation gives to indoor workers the tireless vim and go of the sunbathed man who fills his lungs with ozone out in the open.

Detroit-Fenestra construction is patented. It's light and tremendously strong. The "Fenestra" joint gives each inter-section more strength than was ever possible before.

It is made in standard sizes—shipped ready to install.

Great modern factories all over the country are now being equipped with Detroit-Fenestra sash. Let us send you the names of notable users.

We have a Book, an interesting, practical treatise (and Catalogue) on Man Efficiency and the Detroit-Fenestra Idea. Every Manufacturer who really wants the most from his men and for his money should have a copy of this book. So should every architect and builder. Tell your stenographer to write us for **your** copy now—mailed prepaid.



Interior of Detroit Gear Grinding Factory, Detroit, Mich

**Detroit Steel
Products Co.**
Manufacturers
Dept. 6
Detroit, Mich.



PENNSYLVANIA

ASPINWALL.—J. D. Armstrong, Director of Public Works, is taking bids on foundations and appurtenances for new pumping station at Aspinwall. Building will cost \$190,000.

CANONSBURG.—The school board will receive sealed proposals for the erection of an addition to the present high school building. All bids must be in the hands of the secretary on or before 7:30 p. m., Eastern time, April 22, 1912. Plans and specifications can be seen at the office of the School Board at Canonsburg, Pa., or the office of W. G. Eckles, the architect, at New Castle, Pa. G. G. McMillen, Secretary.

ERIE.—Henry Mayer, Sr., is expecting to erect two large store and office buildings in State St. One will be an eight-story structure located on the northeast corner of Twelfth and State Sts.; cost, \$400,000.

JOHNSTOWN.—The U. S. Government will receive bids until April 26 for a new brick and stone postoffice, to cost approximately \$130,000.

PHILADELPHIA.—The Friends have had plans completed for the erection of a \$100,000 building at the northwest corner of Fifteenth and Cherry Sts., which will replace the present 4-story structure erected about ten years ago. The plans, by Architects Bunting & Shrigley, 603 Chestnut St., provide for a 7-story fireproof structure.

PITTSBURGH.—C. R. Bucheit, Park Bldg., is head of a syndicate that has applied to City Council for rights to build a \$2,000,000 warehouse on the Allegheny River wharf near the Sixth St. bridge. Plans are prepared and bids will be asked when certain city and government rights are secured.

Architects Rutan & Russell, Magee Bldg., are asking for bids on a 3-story brick and concrete manufacturing building for the James H. Matthews Co., to cost \$50,000.

PITTSBURGH.—Architect W. Ward Williams is taking bids for a two-story brick and hollow tile house to be built for Mrs. Mary M. Temmel on the William Pitt Blvd., near Crombie St., Squirrel Hill.

A two-story brick and stone parochial school building has been planned by Architect John T. Comes, 1005 Fifth Ave., for the St. James Catholic Church. The same architect has plans for a four-story brick and fireproof building to be built in Congress St. for the St. Regis Home for Working Girls. The estimated cost of this structure is \$50,000.

SOUTH CAROLINA

GREENWOOD.—Mr. W. B. Williams is considering the erection of a \$35,000 apartment house. He is now looking into the matter and considering plans for the building. The building contemplated will be modern in every particular, four stories high with elevator service.

SOUTH DAKOTA

ELK POINT.—Fred W. Ford, secretary, Elk Point, S. D., will receive bids until 10 a. m., April 22, for the erection of a wing to the normal and industrial school buildings. Architect, J. W. Henry, of Aberdeen.

TEXAS

AUSTIN.—Plans and specifications for the San Marcos Normal School's new manual arts building, for which the Legislature appropriated \$25,000, have been approved by the building committee of the State Normal board of regents. Messrs. Behles and Boelhauwe of San Antonio are the architects.

FORT WORTH.—Plans for the erection of two fireproof warehouses have been completed by the Texas City Terminal Co. and work will be commenced in the near future, according to Scott Marshall, president of the First National bank of Texas City and United States customs collector for that port.

UTAH

SALT LAKE CITY.—Revised plans for the new Utah university central building have been completed by the architectural firm of Cannon, Fetzer & Hansen, 11 S. Main St. The contract for the actual building operations will be let in the near future. When completed the building will cost \$300,000.

VIRGINIA

BEDFORD CITY.—The grand trustees of Elks have arrived at the Elks' National Home here to take steps toward the erection of the new national home, which is to cost about \$300,000. Bids will be opened in May for erection of same.

BRISTOL.—New central building will be erected for the Emory & Henry College. Rev. S. B. Vought, financial secretary.

LEXINGTON.—It has been decided to erect a hospital for tuberculosis patients at the Catawba Sanatorium at a cost of \$40,000.

RICHMOND.—At a meeting of the sub-committee of the Council Committee on Grounds and Buildings general specifications were approved and the building inspector was instructed to advertise for plans for the new First Regiment Armory to be erected at the corner of Seventh and Marshall Sts. The competition for plans will be limited to Richmond architects, and after definite plans are accepted the committee will advertise for bids for erection of the building.

ROANOKE.—The State Board of Health is having plans prepared for erection reception hospital at junction of the Norfolk & Western Railway and the Catawba Valley; estimated cost, \$40,000.

WASHINGTON

OLYMPIA.—Bids will be received by the supervising architect, Washington, D. C., until 3 p. m., May 7, for the erection of the postoffice building.

SPOKANE.—Plans have just been completed by architect R. C. Sweatt, Peyton Bldg., for the new Hillyard high school building, for which \$25,000 was recently voted by the residents of the railroad town. The building will be thoroughly modern.

TACOMA.—The National Realty Company will remodel and improve their building at cost of \$25,000.

WEST VIRGINIA

WHEELING.—Architect S. F. Heckert, of Pittsburgh, is preparing plans for group of buildings to be erected for Sisters of the Good Shepherd; estimated cost, \$200,000.

WISCONSIN

MILWAUKEE.—An architect will shortly be selected to prepare plans for church edifice to be erected by the Greek Orthodox Church, on Knapp and Broadway; estimated cost, \$50,000.

MILWAUKEE.—Architect C. C. Hosmer is completing plans for the erection of the new building of the Church of the Disciples of Christ, at Prospect Ave. and Clarke St. Cost \$25,000.

The Federal Rubber Co. will join the several buildings which make up its plant at Cudahy by erecting new structures in the intervening spaces, at a cost of \$50,000.

Wade H. Richardson will erect a 3-story, 12-apartment building at Bartlett Ave. and Park Pl., to cost \$25,000. Architects Crane & Barkhausen, University Bldg.

CANADA

VANCOUVER.—The Minister of Education will receive competitive plans from Canadian architects for the proposed new university, together with more detailed drawings, for the building to be erected first at estimated cost of \$1,500,000. Plans must be in by July 31.

A Safe Investment Paying Twenty Percent

CONSERVATIVE financiers would look askance on any investment returning dividends at such a rate. They consider returns inversely proportional to security, which means that anything paying more than five or six percent begins to be of doubtful safety.

But it has been shown, times without number, that a properly designed and installed system of



GRINNELL AUTOMATIC SPRINKLERS

will so reduce insurance premiums, as to pay from this source, on the average twenty percent upon its cost. That is, it will pay for itself in about five years; after which time all returns (still at above rate) are clear gain. These returns continue through the life of the building and its equipment.

GENERAL FIRE EXTINGUISHER COMPANY

Executive Offices, Providence, R. I.

Plants, Warehouses and Offices in Principal Cities of United States and Canada

40-43

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.	BOSTON, MASS. 232 SUMMER ST.
INDIANAPOLIS, IND. 120 SO. MERIDIAN ST.	PORTLAND, ORE. 40 FIRST ST.
CHICAGO, ILL. 130 W. LAKE ST.	SAN FRANCISCO, CAL. 129-131 FIRST ST.
ST. LOUIS, MO. 218-220 CHESTNUT ST.	PITTSBURGH, PA. 420 FIRST AVE.
PHILADELPHIA, PA. 821-823 ARCH ST.	SPOKANE, WASH. 163 S. LINCOLN ST.
LONDON, ENGLAND. 11-13 SOUTHAMPTON ROW.	

A History of Architectural Development

By F. M. SIMPSON, Architect

Professor of Architecture in the University of London, Fellow of the Royal Institute of British Architects.

Vol. I.—ANCIENT, EARLY CHRISTIAN, AND BYZANTINE ARCHITECTURE.

With 180 Illustrations. \$4.00 net.

Vol. II.—MEDIÆVAL ARCHITECTURE.

With 257 Illustrations. \$6.00 net.

Vol. III.—THE RENAISSANCE IN ITALY, FRANCE, AND ENGLAND.

With 268 Illustrations. Medium 8vo. \$6.00 net.

"The subjects are dealt with in a masterly manner...the illustrations are much above the average...it has some new features and much new matter of importance is introduced that will be of interest to the architectural student...quite a valuable addition to architectural literature...."—*The National Builder*.

"Intended primarily for the use of actual practitioners of architecture...the book is by no means intended to repel the general reader...there is nowhere in English so much information on the subject within a reasonable compass and at a reasonable cost...."—*New York Sun*.

Prospectus Sent on Request
Longmans, Green, & Co., New York

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.

SCHOOL OF ARCHITECTURE

HARVARD UNIVERSITY

Summer Courses in Architectural Design. For circular giving details with regard to these courses, apply to Prof. H. L. Warren, Chairman of the Department of Architecture, Harvard University.

UNIVERSITY OF PENNSYLVANIA

SCHOOL OF ARCHITECTURE.

FOUR-YEAR COURSE. (*Degree B. S. in Arch.*) Options in design and architectural construction.

GRADUATE YEAR. (*Degree M. S. in Arch.*) Allowing specialization in advanced work. Fellowships.

SPECIAL COURSE of two years. (*Professional Certificate.*) For qualified draftsmen.

ADVANCED STANDING granted for equivalents completed elsewhere.

SUMMER SCHOOL in architecture and allied subjects. Special circular.

YEAR BOOK illustrating work in design, drawing, etc., mailed without charge.

FULL INFORMATION will be sent on application to the Dean of the College Department, Dr. George E. Fisher, University of Pennsylvania, Philadelphia, Pa.

A Free Course in Architectural Design

conducted by

The Society of Beaux Arts Architects

Seventeenth Season—Aug. to July, inclusive

The Course is open to draughtsmen and students of architectural schools in any city of the United States or Canada, modeled on the principles of instruction at the Ecole des Beaux Arts in Paris. It consists of thirty-five (35) competitions divided into two classes supplemented by prize competitions, to enter any of which an annual Registration Fee of \$2.00 is required. Address applications for circulars of information and calendars for season 1911-12 to:

William Emerson, Chairman,
Committee on Education,
281 Fifth Avenue, New York City.

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

Harrison 3897

324 Dearborn Street, CHICAGO, ILL.

PERSPECTIVES RENDERED

In Pen and Ink and Water Color

WALTER M. CAMPBELL

8 Beacon Street, Boston, Mass

University of Illinois Department of Architecture

Four year courses in Architecture and in Architectural Engineering. (*Degrees B. S. in Arch. and B. S. in Arch. Eng.*) Traveling fellowship limited to Illinois graduates.

Special facilities for graduate work in Design and Construction. (*Degrees M.S. in Arch. and M. S. in Arch. Eng.*) Scholarships and Fellowships available.

Advanced standing by transfer of credit from other approved institutions.

Illustrated Year Book free on application. For information address Department of Architecture.

Rendering of Perspectives in any Medium

Drawing of Perspectives

G. A. Weisz, 1123 Broadway, N. Y.

Telephone, Madison Sq. 8633

WASHINGTON UNIVERSITY

ST. LOUIS, MISSOURI

SCHOOL OF ARCHITECTURE

Four-year course in Architecture with degree of B.S. Two-year course in Design with certificate. Course in Architectural Engineering. Special students received. For further information address JOHN BEVERLEY ROBINSON, Professor of Architecture.

COLLEGE OF FINE ARTS SYRACUSE UNIVERSITY

Department of Architecture

Four-year course in Architecture leading to the degree of B.A. Special two-year course for students who have had two or more years of office experience. For bulletin and information, address, Registrar, Syracuse University, Syracuse, N. Y.

TO ARCHITECTS

Competition Designs and Perspectives in Water Colors, Assistance on Preliminary Work, from Sketches, or Suggestions. Address "Architectural Artist," 725 Kearny Ave., Arlington, N. J.

RATES for Classified Advertising

Positions Wanted, 50 cents for 50 words or less; Help Wanted, Special Notices, Competitions, Proposals, etc., 20 cents a line, minimum four lines. Copy received until 12 m. Monday. Remittance should accompany copy.

POSITIONS WANTED

GRADUATE CIVIL ENGINEER, thoroughly proficient in structural design and building construction, heating and ventilation, working drawings, specifications, estimates and contracts, good executive, desires a working interest with architectural firm, or general contractor, having sufficient business to warrant the employment of an all-around, high-grade man. Address 83F, care American Architect, New York. (1887 & tf)

GOOD ALL-ROUND MAN, quick, long experience, special in all kinds of English work, last twelve (12) years closely identified with one of the best known Eastern firms, desires association or position with firm having good prospects; any location; best references. Address 92B, care American Architect. (1892-3-4-5)

ENERGETIC AND SYSTEMATIC EXECUTIVE wants percentage participation for services. University graduate of efficiency and integrity at superintendence, specifications and management in best classes of work. Address 93K, care American Architect. (1893-4-5-6)

SUPT. OF CONST. with large experience, familiar with all classes of construction, heating and ventilation, fair draftsman, good estimator and specification writer. Will consider any location. Give full particulars when answering. Address 93F, care American Architect. (1893-4)

AN ARCHITECTURAL DRAUGHTSMAN who has had over ten years' experience desires a position in New York City; can make accurate working drawings and full-size details, also perspectives. Address 94B, care American Architect. (1894)

SUPERINTENDENT of Building Construction. Sixteen years' experience as superintendent of construction work; technical education. Experience in reinforced construction work, general office work, detailing. Fair in design and perspective; heating and drainage systems, specifications, estimating. Good health and habits, reliable. References furnished. Location, Western States. Address, 94E care American Architect, 915 Hearst Bldg., Chicago. (1894-5-6-7)

POSITION WANTED at once by a good all-around draftsman residing in New York City, with many years' experience; good on working plans, details, construction, perspectives and water color rendering. Adams, 93H, care American Architect. (1894)

HELP WANTED

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

WANTED—Experienced Designer and Colorist. Capable of managing small office. Straight salary or salary and commission. College graduate preferred. Address "Ohio 93D," care American Architect. (1893-tf.)

WANTED—Architectural Draughtsman for general work, particularly detailing. Pallman & Ropes, Architects, Detroit, Mich. (1893-4)

(Classified Ads continued on page 20)

Alphabetical List of Advertisers

Ads marked E. O. W. appear every other week.
 Ads marked O. A. M. appear once a month.

A	Adams, James..... 18	L	Lee Marble Works (o.a.m.).... 26
	Adler, The J., Gilding Co. (o.a.m.) 22		Lehigh Portland Cement Co..... 21
	American Blower Co..... 25		Loomis-Manning Filter Co..... 18
	American Luxier Prism Co..... 21		Longmans Green & Co..... 20
	American Mason Safety Tread Co. (e.o.w.) 21		Lufkin Rule Co..... 20
	American Radiator Co. (e.o.w.)	M	McCray Refrigerator Co..... 21
	American Sheet & Tin Plate Co. (o.a.m.)..... 35		Maddock's, Thomas, Sons Co. (e.o.w.)..... 30
	American Steel & Wire Co..... 9		Marsh Valve Co..... 43
	Art Metal Construction Co..... 38-39		Merchant & Evans Co. (e.o.w.)..... 27
	Artesian Well & Supply Co. (e.o.w.)..... 26		Moss Photo Engraving Co..... 24
	Associated Builders Catalog Co..... 26		Mueller, H., Mfg. Co. (e.o.w.)..... 24
	Atlantic Terra Cotta Co. (e.o.w.)..... 56		Mullins Co., The W. H..... 24
	Atlas Portland Cement Co. (e.o.w.)..... 42		Murphy Varnish Co. (o.a.m.)..... 22
	Automatic Refrigerating Co..... 42	N	National Fire Proofing Co..... 36
	Ayer & Lord Tie Co. (e.o.w.)..... 26		National Lead Co..... 22
B	Barrett Mfg. Co..... 21		National Roofing Tile Co..... 22
	Berger Mfg. Co..... 26		National X-Ray Reflector Co. (e.o.w.)..... 21
	Bird, F. W., & Son (o.a.m.)..... 26		Neuchatel Asphalt Co..... 32
	Bradford Pressed Brick Co..... 18		Never-Split Seat Co..... 25
C	Cabot, Samuel, Inc..... 9		New York Architectural Terra-Cotta Co..... 17
	Cahill Iron Works..... 26		New York Belting & Packing Co. (e.o.w.)..... 51
	Campbell, Walter M..... 18		Northern Pine Mfrs. Assn. (e.o.w.) 25
	Carpenter, Geo. B., & Co..... 35		Northwestern Terra Cotta Co..... 9
	Carter White Lead Co..... 11	O	Ohio Blower Co..... 21
	Clow, James B., & Sons (e.o.w.)..... 35		Okonite Co. (e.o.w.)..... 29
	Condron Co..... 11		Pierce, Butler & Pierce Mfg. Co. (e.o.w.)..... 19
	Corbin, P. & F..... 47		Pomeroy, S. H., Co., Inc. (o.a.m.) 45
	Corrugated Bar Co. (e.o.w.)..... 20		Pray, John H., & Sons Co. (o.a.m.) 19
	Cudell, F. E. (e.o.w.)..... 20		Prescott, J. B., & Son..... 27
	Cutler Mail Chute Co..... 19		Prometheus Electric Co. (o.a.m.) 34
D	Dahlquist Mfg. Co. (e.o.w.)..... 23		Pullman Motor Car Co..... 28
	Decorators Supply Co. (e.o.w.)..... 27		Puritan Cordage Mills (e.o.w.)..... 21
	Deming Co., The..... 22	R	Raymond Concrete Pile Co..... 24
	Detroit Show Case Co. (o.a.m.)..... 15		Reliance Ball Bearing Door Hanger Co. (o.a.m.)..... 27
	Detroit Steel Products Co..... 24		Richards-Wilcox Mfg. Co. (e.o.w.) 34
	Dexter Bros. Co..... 20		Roebling Construction Co..... 23
	Dixon Crucible Co., Jos..... 30		Ruud Mfg. Co. (e.o.w.)..... 4
	Doylair, Inc..... 28	S	Samson Cordage Works..... 9
	Drouvé, G., Co. (e.o.w.)..... 19		Sargent & Company..... 22
	Dunning, W. D..... 19		Schreiber & Sons Co., The L..... 15
E	Elevator Supply and Repair Co. 56		Seifert, Frank A., Plastic Relief Co. (e.o.w.)..... 13
	Estey Organ Co. (e.o.w.)..... 28		Silver Lake Co..... 18
	Eureka Fire Hose Co. (e.o.w.)..... 28		Smith, H. B., Co. (o.a.m.)..... 31
F	Federal Terra Cotta Co. (o.a.m.)		Society of Beaux-Arts Architects 22
	Fiske & Co..... 23		Standard Varnish Works (e.o.w.) 32
	French & Co., Samuel H..... 70		Stanley & Patterson..... 22
G	Galloway Terra Cotta Co..... 55		Stanley Works, The (e.o.w.)..... 9
	General Electric Co. (e.o.w.)..... 17		Stewart & Clark Mfg. Co..... 9
	General Fire Extinguisher Co..... 13		Sturtevant Co., B. F..... 18
	General Fireproofing Co..... 21		Sun Burst Prism Co..... 18
	Globe Ventilator Co..... 21		Syracuse University..... 4
	Goodyear Tire & Rubber Co. (o.a.m.)..... 41	T	Taylor, J. W..... 44
	Gorham Co..... 21		Taylor, N. & G., Co. (o.a.m.)..... 48
	Great Western Pottery Co..... 41		Thomas & Smith (o.a.m.)..... 44
	Grueby Faience and Tile Co..... 21		Thorp Fire Proof Door Co..... 48
	Gurney Heater Mfg. Co..... 21		Tiffany Studios..... 34
H	Harvard University..... 18		Trenton Potteries Co..... 53-54
	Heaton, Butler & Bayne..... 23		Trussed Concrete Steel Co..... 23
	Hess Warming & Ventilating Co. (e.o.w.)..... 23	U	Turner Construction Co..... 20
	Higgins & Co., Chas. M. (e.o.w.) 23		U. S. Gypsum Co..... 20
	Holtzer Cabot Electric Co..... 37		U. S. Mineral Wool Co..... 18
	Hough, Wm. B., Co..... 56		U. S. Radiator Corporation..... 18
	Hunt, Robert W., & Co..... 13		University of Illinois..... 18
	Hurley Machine Co. (e.o.w.)..... 13		University of Michigan..... 18
	Hutchings Organ Co..... 21		University of Pennsylvania..... 18
	Hydrex Felt & Engineering Co..... 21	V	Vaile & Young..... 21
	Imperial Brass Mfg. Co..... 20	W	Wadsworth, Howland & Co., Inc. (o.a.m.)..... 25
	Industrial Engineering..... 20		Warner Co., Charles (o.a.m.)..... 18
J	Jackson, Wm. H., Co. (e.o.w.)..... 56		Washington University..... 18
	Jenkins Bros..... 29-31		Weisz, G. A. (e.o.w.)..... 21
	Johns-Manville Co., H. W..... 23		Western Electric Co. (e.o.w.)..... 21
	Johnson, E. J. (e.o.w.)..... 23		White Enamel Refrigerator Co. (e.o.w.)..... 23
	Johnson, S. C..... 23		White Fireproof Construction Co. 22
K	Kahn System of Reinforced Concrete..... 53-54		Winkle Terra Cotta Co. (o.a.m.) 40
	Kawneer Mfg. Co..... 24		Wolfe & Misner (e.o.w.)..... 23
	Keasbey & Mattison Co. (e.o.w.) 27		Wolf, L., Mfg. Co..... 33
	Kelly, Thos., & Bros. (e.o.w.)..... 50		Woodbury Granite Co..... 33
	Kelsey Heating Co. (o.a.m.)..... 32		Wood-Mosaic Co. (e.o.w.)..... 22
	Kennedy, David, Inc. (e.o.w.)..... 32	Y	Yellow Pine Mfrs. Ass'n (e.o.w.)
	Keweenaw Boiler Co..... 22		
	Keweenaw Mfg. Co..... 22		

LINOLEUM

SECURED BY CEMENT TO EITHER WOODEN OR CEMENT FLOORS

An ideal Floor Covering for Public Buildings. Elastic, noiseless and practically indestructible. It is in use on Battleships, cemented to steel decks in the United States, English and German Navies; should be placed on floors under pressure, and best results can only be obtained by employing skilled workmen.

The quality of our work has passed the inspection of the United States Government and numerous Architects and Builders.

The Franklin Union Building in Boston is a sample of our work, and we have the contracts for the North Dakota, the largest battleship in the United States Navy; the Extension of the Suffolk County Court House in Boston, and the Registry of Deeds, Salem, Mass.

We solicit inquiries and correspondence.

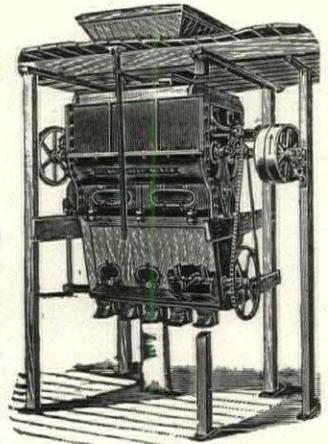
JOHN H. PRAY & SONS COMPANY
 646-658 WASHINGTON STREET Opp. Boylston Street
BOSTON, : : : : : MASS.

On application we will mail a small book on this subject.

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 throw it in opposite directions from one end of the case to the other, keeping it in constant motion and obtaining a perfect mixture.

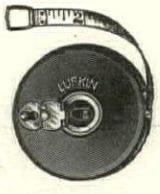
The Broughton Mixers are durable and easy to operate, designed with great care. Duplicate parts can be furnished at any time. Send for booklet.

W. D. Dunning
 231 West Street, Syracuse, N. Y.

LUFKIN
MEASURING TAPES

For work where accurate measurements are essential. They make good in the severest test.

THE LUFKIN RULE CO. Saginaw, Mich., U.S.A.
New York London, Eng. Windsor, Can.



DIXON'S SILICA-GRAPHITE PAINT
The Most Tenacious Protector

for all structural steel or other metal work. Eminent architects and engineers all over the world have specified its use on buildings, bridges, etc., because they knew its value. Made in ONE GRADE only.

Our Paint Department will cheerfully send long service records and appropriate paint literature, if requested.

JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

GALLOWAY GARDEN POTTERY

Send for catalogue of Flower Pots, Boxes, Vases, Fountains, Benches, Sundials, Etc.
Estimates furnished on special work.

GALLOWAY TERRA-COTTA CO.
3224 Walnut Street. - - Philadelphia



Mineral Wool

FIRE, SOUND and VERMIN PROOF IN ULATOR
SAMPLES AND CIRCULARS FREE

U. S. MINERAL WOOL CO. 140 Cedar St. NEW YORK

INDUSTRIAL ENGINEERING CO.
Engineers and Contractors

Reinforced Concrete and General Building Construction

HUDSON TERMINAL BUILDING
30 CHURCH ST (Telephone, 7815 Cortlandt) NEW YORK

Branch Offices: 100 State St., Albany, N. Y. Grant Bldg., Atlanta, Ga.

CUTLER MAIL CHUTES
"The Cheapest Modern Improvement."

CUTLER MAIL CHUTE CO.
ROCHESTER, N. Y.

PATENTED

(Classified ads. continued from page 18)

ARCHITECTURAL DRAUGHTSMAN, competent to take charge drafting force two to eight men, city of 100,000, 125 miles south of New York State; state qualifications and salary. Address 94A, care American Architect. (1894)

WANTED AT ONCE—Architectural Draughtsman. One who can take charge of drafting room, public and semi-public buildings, technical graduate with experience in first-class offices preferred. Steady position and good chance for advancement for right man. Rendering not necessary. Write fully to save time. Wheeler & Stern, Charlotte, N. C. (1894-5)

ARCHITECTURAL DRAUGHTSMAN—One experienced in design and rendering in color. State age, experience, salary desired and give references. Good position for right man in Southern city of 125,000 inhabitants. Address 94C, care American Architect. (1894)

PROPOSALS

Treasury Department, Office of the Supervising Architect, Washington, D. C., March 25, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M., on the 1st day of May, 1912, and then opened, for the installation of a vacuum cleaning system in the United States Post Office at Oklahoma City, Okla., in accordance with drawing and specification, copies of which may be had at this office or at the office of the superintendent, Oklahoma City, Okla., at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR, Supervising Architect.
(1893-4)

Treasury Department, Office of the Supervising Architect, Washington, D. C., April 1, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M., on the 13th day of May, 1912, and then opened, for two electric passenger elevators, two hydraulic lifts, and pumping plant in the reconstruction of the U. S. Post Office, Court House and Custom House at Richmond, Virginia, in accordance with the drawings and specification, copies of which may be obtained at this office at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR, Supervising Architect.

Treasury Department, Office of the Supervising Architect, Washington, D. C., April 5, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M., on the 17th day of May, 1912, and then opened, for an electric passenger elevator in the United States Post Office and Court House, Great Falls, Mont., in accordance with the drawings and specification, copies of which may be obtained at this office at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR, Supervising Architect.
(1894-5)

Treasury Department, Office of the Supervising Architect, Washington, D. C., April 6, 1912.—Sealed Proposals will be received at this office until 3 o'clock P. M., on the 18th day of May, 1912, and then opened, for an electric passenger elevator in the United States Post Office, Oklahoma City, Okla., in accordance with the drawing and specification, copies of which may be obtained at this office at the discretion of the Supervising Architect.

JAMES KNOX TAYLOR, Supervising Architect.
(1894-5)

Proposals for State Fair Building, Syracuse, N. Y. Notice to Contractors—Sealed proposals will be received by the State Fair Commission, Syracuse, N. Y., Tuesday, April 16, 1912, at 2 P. M., and each bidder shall either personally or through agent present to the Board at that time and place his bid, sealed, for the entire work for the Cattle Building, at which time they will be opened and read publicly. The proposal shall be accompanied by a certified check in an amount equal to 5 per cent of the proposal, and the contractor to whom the award is made will be required to furnish a surety bond in an amount equal to 50 per cent of the contract, within ten days from date of notice of award of contract. Failure to furnish bond within specified time will cancel the notice of award and cause forfeiture of certified check. The State Fair Commission reserves the right to reject any or all bids. The contract will provide that the building shall be completed on or before August 26, 1912. On and after March 26, 1912, drawings, specifications and forms of proposal may be obtained of Green & Wicks, Architects, 110 Franklin St., Buffalo, N. Y. Plans and specifications will be on file, and may be examined by general contractors or sub-contractors, at the office of Franklin B. Ware, State Architect, Capitol, Albany, N. Y.; at the office of the State Fair Commission, Post-Standard Bldg., Syracuse, N. Y., and at the office of Green & Wicks, 110 Franklin St., Buffalo, N. Y. Plans and specifications must be returned to the State Fair Commission with proposals. Address all proposals to State Fair Commission, Post-Standard Bldg., Syracuse, N. Y. (1892-3-4)

SPECIAL NOTICE

PARTNERSHIP—Capable and Experienced architect, designer and colorist, able to take full charge of draughting room and office, desires partnership in well-established concern, or would purchase. Not particular as to location. Address No. 94D, care American Architect. (1894)

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

50 UNION SQUARE

NEW YORK

MASON SAFETY TREADS

For Stairs, Wood, Iron, Marble or Cement
New or Old

HUNDREDS OF THOUSANDS IN USE

American Mason Safety Tread Co., Boston

"The Barrett Specification."

For laying durable and economical roofs of Coal Tar Pitch, Tarred Felt and Slag or Gravel. Every architect needs it in his files. Free on request.

BARRETT MANUFACTURING COMPANY
New York, Chicago, Philadelphia, Boston, St. Louis, Cleveland, Pittsburg, Cincinnati, Kansas City, Minneapolis, New Orleans, Seattle, London, Eng.



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.

THE NAME "McCRAV"

on a refrigerator means satisfaction and health to the owner, and helps give the architect a reputation for care in specifying the things which count for comfort and convenience. Send for catalog No. AH.

McCray Refrigerator Co.
307 Lake Street Kendallville, Ind.

RAYMOND CONCRETE PILE COMPANY

Engineers and Contractors

Concrete Piles and Sheet Piles, Docks,
Piers, Bulkheads, Foundations

General Offices: New York and Chicago

Branch Offices: Baltimore Pittsburgh St. Louis San Francisco
Los Angeles Portland, Oregon

168-page Catalog on Concrete Piling and Dock
and Bulkhead Construction sent free on request.

ESTIMATING

By Edward Nichols. Containing invaluable information for the use of Architects, Contractors, Builders and others interested in building, heating, roofs, cornices, etc. This handbook tells how to go about the task of making an estimate intelligently. 140 pages, 35 illustrations. Cloth binding. Price, \$1.00

Book Department, The AMERICAN ARCHITECT
50 Union Square, New York City

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

KAWNEER Booklet No. 3 shows by full size details and photographs, various bars, sash and mouldings, together with a plain description of each.

Send for the booklet and learn about
KAWNEER regu-

Kawneer
STORE FRONTS

lated ventilation and drainage — it has revolutionized Store Fronts.

KAWNEER MANUFACTURING CO.

Factory and General Offices: NILES, MICH. Branches in all principal cities.

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 Architect, 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, 50 Union Square, New York

LOOMIS FILTERS

Established 1880

Improved System 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

It Will Pay You to Investigate the

INGHAM SHOWER MIXER

Maximum Comfort, Safety and Economy. Write for free illustrated descriptive booklet "A Good Mixer."

IMPERIAL BRASS MANUFACTURING COMPANY
Dept. 174, 1222 W. Harrison Street, Chicago

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. 4

Integro

EXPULSO DEVORO

Ejector

WAVELINE

The Great Western Pottery Co., Tiffin, O. Kokomo, Ind.

These Trade Marks on any Water Closet Bowl or Tank are a guarantee of quality.

Pee Gee Flatkoatt

is the right wall-finish from every point of view, for every kind of building.

"Modern Method of Finishing Walls"

is a good, practical wall-finishing book. Sent Free.

PEASLEE-GAULBERT CO. Inc., 407 W. Main St., Louisville, Ky.

GURNEY HEATERS

FOR
STEAM AND
HOT WATER



GIVE
COMPLETE
SATISFACTION

N.Y. BRANCH
12 EAST 42ND ST.
NEW YORK

GURNEY HEATER MFG. COMPANY
BOSTON, MASS.

HOME OFFICE
188-200 FRANKLIN ST.
BOSTON

To Our Subscribers

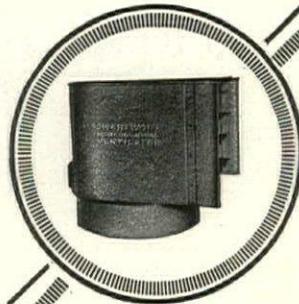
BEFORE purchasing Books on Architectural subjects it will save time and expense if you send us a list of works you contemplate purchasing and let us quote you a "combination price."

THE AMERICAN ARCHITECT, 50 Union Sq., N. Y.



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



A Rotary—
not a chimney ventilator is
the

SWARTWOUT

By using the full power of
the wind it handles

50% MORE AIR
than stationary types

Send for Bulletin 152

THE OHIO BLOWER CO.
40 Michigan Street CLEVELAND, O.
1-194

ORIENTAL STUCCO
and Interior Colored Finishes
ABSOLUTELY WATERPROOF

The only material of its kind. Will cover more space. Most economical. Greatest elasticity. Dry quicker, become harder and more durable than any other material

Oriental Stucco and Interior Finishes made in All Colors.
Shipped ready for use. Simply add water.

DEALERS!! Write for STUCCO BOOKLET and Prices.
Shipments by Water or Rail.

WOLFE & MISNER, Sole Distributors
MONUMENT PLASTER CO., Essex Bldg. Newark, N. J.

Furniture for Chemistry

Physiography, Physics, Biology, Domestic Art and Domestic Science Laboratories can be purchased in large lots and shipped promptly. We carry fifty carloads in stock.

We furnish plans to Architects, showing the location of each piece of furniture and the location of each water, waste and gas supply pipe as well as electrical outlets for the different laboratories. Send us the floor plans of the school you are building.

Write for our catalogues Nos. 5, 6 and 7.

KEWAUNEE MFG. CO.

Manufacturers of Laboratory Furniture
New York Office: 59 Fifth Ave. Kewaunee, Wis.

WE DO
ENAMELING AND
GILDING

ON WOOD, METALS, PLASTER, GLASS
CONCRETE, PAPER, ETC.

The J. Adler Gilding Company

343-5-7 West 131st Street Phones 1590-1 Chelsea
HARDWOOD FINISHING

Italian Architecture
Interiors and Furniture

During the 14th, 15th, 16th and 17th centuries. By Camillo Salvatore. Contains 66 large photographic plates of beautifully furnished interiors, of decoration, brickwork, landscape architecture, etc. Price, \$25.00.

THE AMERICAN ARCHITECT
50 UNION SQUARE, NEW YORK

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.	Columbus, West Broad Street
Detroit, Penobscot Bldg.	Minneapolis, Lumber Exchange.
Boston, John Hancock Bldg.	Los Angeles, Central Bldg.
Philadelphia, Land Title Bldg.	Toronto, Can. Traders Bank Bldg.
Washington,	Colorado Bldg.

STANLEY & PATTERSON, Inc.

Manufacturers of General Electrical Supplies
of the highest possible efficiency and quality

23 Murray St.—27 Warren St., NEW YORK
(FROM BLOCK TO BLOCK)

TO BE SATISFACTORY

A Roof must, first of all, be weather-proof. That goes without saying. Tile, Slate or any other material not meeting this requirement is a failure.

NATIONAL INTERLOCKING ROOFING TILE

is absolutely weather-proof when properly laid and does not depend on the under-lying felt.

American architects, contractors and prospective builders are invited to write us for Catalogues, Samples and Prices on Natural Reds and Green Glazes.

The National Roofing Tile Co - - - - - Lima, Ohio

DEMING POWER PUMPS

Complete Water Supply Systems

THE DEMING COMPANY, Salem, Ohio
HAND AND POWER PUMPS FOR ALL USES
Henlon & Hubbell, Chicago, General Western Agents



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.



**Before You Specify
 Get this Free Book**

You will find it a big help in all kinds of Wood finishing. Tells quantity of materials needed, etc.—how to do best work with least time and cost and most satisfaction.

Johnson's Wood Dye
 Made in 15 Shades

is a soft, handsome finish, unequalled for *durable*, artistic effects. Sinks deep into the grain and firmly sets the desired shade. Your local dealer probably has samples of the Dye—our Prepared Wax, and other Finishings. But if necessary, we will send them—free. Ask for Book No. AT-4.

S. C. JOHNSON & SON
 Racine, Wis.
 "The Wood Finishing Authorities"

TURNER
Construction Company
 11 Broadway, New York City
 and
 312 Prudential Bldg.,
 Buffalo, N. Y.

Reinforced Concrete Contractors and Engineers

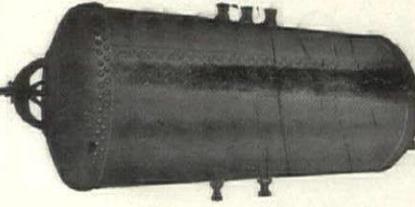
THE SIGN
 OF

NEW YORK
 PHILADELPHIA
 BALTIMORE
 ATLANTA

FIRE PROOFING
 METAL LATHING
WHITE
 FIREPROOF CONSTRUCTION CO.
 286 FIFTH AVE. N. Y. C.

MONTREAL
 AND
 TORONTO
 CANADA

**GOOD
 FIREPROOFING**



"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

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.

Four-Cut Granite

for office buildings, six-cut for municipal work, eight-cut for residences, ten-cut for monuments—any cut for Woodbury Gray Granite and satisfaction.

WOODBURY GRANITE CO.
 Hardwick, Vt.

HESS MEDICINE SANITARY LOCKER
 CABINET

**The Only Modern, Sanitary
 STEEL Medicine Cabinet**



or locker, finished in snow-white, baked everlasting enamel, inside and out. Beautiful beveled mirror door. Nickel plate brass trimmings. Steel or glass shelves.

Costs Less Than Wood
 Never warps, shrinks, nor swells. Dust and vermin proof, easily cleaned.

The Recessed Steel Medicine Cabinet **Should Be in Every Bath Room**
 For styles—four sizes. To recess in wall or to hang outside. Send for illustrated circular.

HESS, 942L Tacoma Bldg. CHICAGO
 Makers of Steel Furnaces. Free Booklet. The Outside Steel Cabinet



DEXTER BROTHERS' English Shingle Stains

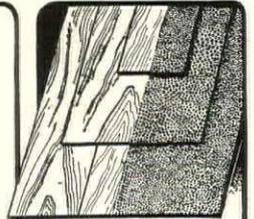
Hold their colors in all climates and give a wealth of artistic effect. By the use of our Silver Grays, Moss Greens and Wood Browns any house may be stained to harmonize with its surroundings.

Let us send you our twenty-eight miniature shingles.

DEXTER BROTHERS CO., 120 Broad St., Boston, Mass.

Branch Offices, 1133 Broadway, N. Y., 218 Race St., Phila. Makers of Dexter Brothers' PETRIFAX, a waterproof coating for exterior and interior use on cement, brick, plaster, etc.

AGENTS—H. M. Hooker Co., Chicago; F. H. McDonald, Grand Rapids; F. T. Crowe & Co., Seattle, Spokane, Tacoma, Wash., and Portland, Ore.; M. D. Francis, Atlanta, Ga.; F. S. Combs, Halifax, N. S.; E. B. Totten, Security Bldg., St. Louis, Mo.; Sherman Kimball, San Francisco, AND DEALERS.



Stain Paint

Stain your shingles and bring out the natural grain of the wood.

Metal Tile Roofing



of Mullins make is the kind that endures. It is simple in construction—positively storm and water-tight.

Guaranteed to remain in perfect condition for years when put on according to directions. Expansion and contraction thoroughly provided for.

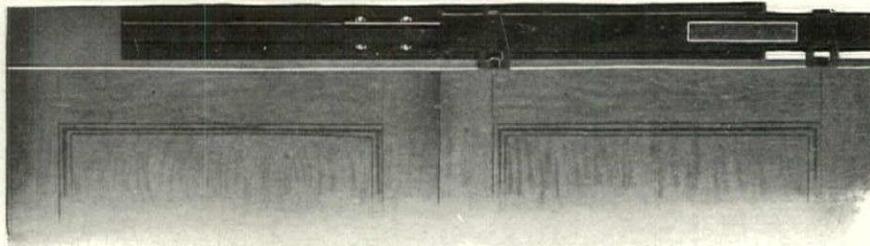
Widely conceded to be the most attractive and satisfactory roofing made.

Also manufacturers of Cornices, Building Fronts, Garlands, Modillions, Enriched Moldings, Capitals, Finials, Tympanum Panels, Rosettes, Faces and other architectural ornaments. Thousands of designs to choose from.

Cornice makers and the Building Trades will find our prices attractive and shipments prompt.

Tell us your wants and the particular kind of Sheet Metal Work you are interested in. Catalogues will be mailed you at once. Discounts to the trade on application.

The W. H. Mullins Co., 206 Franklin St., Salem, O.

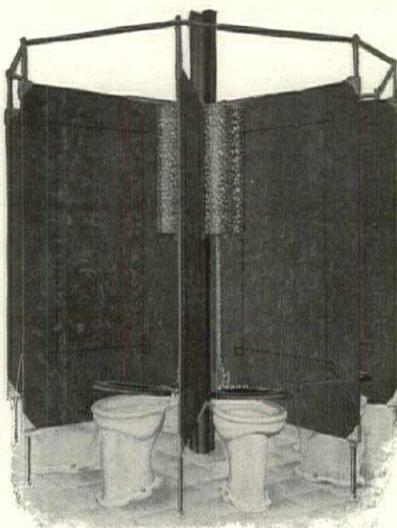


Reliance Hangers

For Strength, Durability, Easy Action and Speed—

Used wherever the BEST is desired. Condensed Catalog in Sweets. Agents in most large cities.

Reliance Ball Bearing Door Hanger Co., 1 Madison Ave., New York



The Kelly Octopus Water Closet System

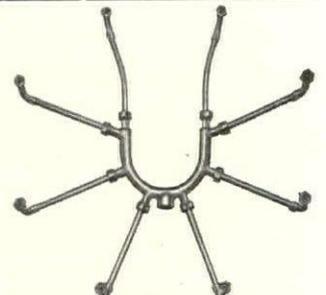
Patented Oct. 20, 1908, Dec. 1, 1908, Sept. 7, 1909.

The complete fixture as shown, occupies a space equal to a circle 7 ft. 6 in. in diameter. Set in the center of a room, this gives all the wall space for wash basins, urinals, sinks, etc.

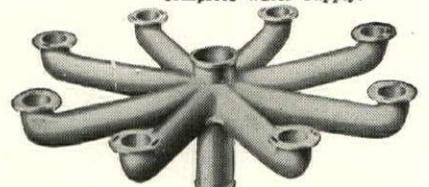
Perfect ventilation; no trap venting needed.

THOS. KELLY & BROS.

Congress St. and 46th Ave., Chicago



Octopus Water Supply Connections, complete water supply.



Kelly Octopus Closet Fitting, comprising all plumbing below floor.

“Sirocco”
TRADE MARK

Fans add to the comfort of the patrons of this beautiful Inn



Sunset Inn—Clayton, Mo.



DETROIT, MICH., U. S. A.

Complete Binder of Bulletins sent upon request. Mention Series A.



Trade-Mark
Reg. U. S. Pat. Off.

Your Concrete and Stucco Construction Needs My Coating

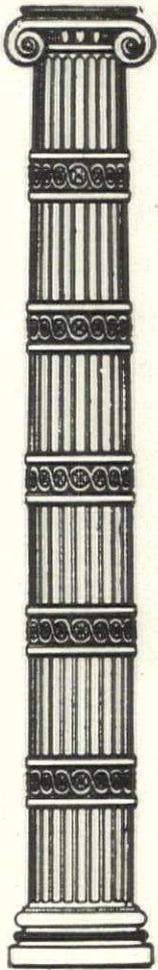
My BAY STATE BRICK and CEMENT COATING is backed by twelve years of practical experience in making a cement coating. It has been tried under all sorts of conditions and met all requirements.

Years before anyone else had put a coating on the market Bay State Brick and Cement Coating was an established success. It had been used on large and small houses, factory walls and factory floors, on the vats and damp rooms of textile mills and breweries. It is the only coating that I know of that won't burn when subjected to heat. It has a flat finish, doesn't destroy the texture of concrete and saves it from cracking from moisture.

Just write me for our Booklet No. 7. Give our salesman a good hearing when he calls. He's got the goods.

Wadsworth, Howland & Co., Inc.

Paint and Varnish Makers and Lead Corrodors
82-84 Washington Street Boston, Mass.



The
Northwestern
Terra Cotta Co.
CHICAGO

manufactures the
Highest Grades of
ARCHITECTURAL
TERRA COTTA

ENAMELED
WORK
A SPECIALTY

Terra-Cotta in Architecture

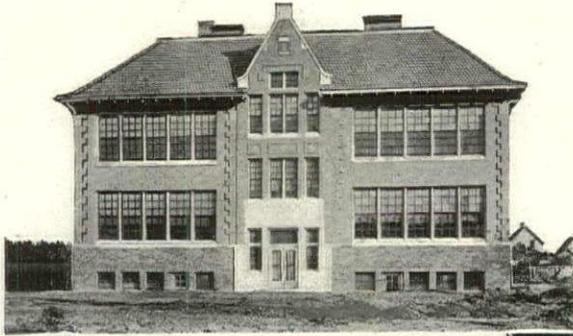
Care



BECAUSE of the great care which must be exercised in the production of Architectural Terra-Cotta, the New York Company has always so restricted the amount of work to be done in its factory as to be able to give the utmost attention to each order. Our aim is not to produce as much Terra-Cotta as possible but to make what we do produce perfect in every respect. If you wish to be sure that your Terra-Cotta is carefully and faithfully made specify New York Terra-Cotta.

**New York
Architectural Terra-Cotta
Company**

Two twenty-five Fifth Avenue
New York



Fire-proof Construction

of a successful type

Replaces wood stick for stick—erected in less time

Berger's *Metal Lumber*

is used for floors and partitions with brick, stone or concrete exterior walls.

Comprehensive building plans are furnished with the material and inexperienced workmen under the direction of a good mechanic can do the work.

The slightly increased cost over wood is overcome by saving in erection costs, maintenance charges, insurance, etc.

Write for valuable construction data.

The Berger Mfg. Co. CANTON Ohio

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

OUT OF THE ORDINARY

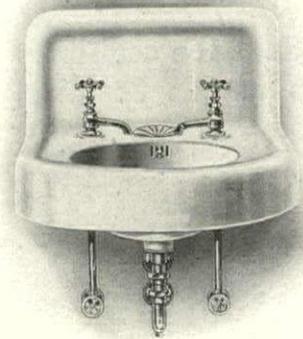


Plate G-142

This lavatory is an original design and while it has been imitated, the original retains its superiority. Plain in design, with recess back and soap cup cast in slab, this lavatory is extremely popular.

The Cahill Iron Works, Chattanooga, Tenn.

New York Office and Display Rooms, 1161 Broadway, Thos. H. Hutchinson, Sales Agent. Philadelphia Office, 5604 N. 4th St., Russell D. Knight, Sales Agent. Portland Office and Warehouse, 550 Sherlock Bldg., H. A. Heppner & Co., Sales Agents. San Francisco Office and Display Rooms, 1749 Sacramento St., C. H. Stanyan, Sales Agent. Havana, Cuba, Office, San Ignacio No. 50, Cagigas & Quesada, Sales Agents.



Lock, Lower Gate House, Charles River Dam

Lehigh Portland Cement



is noted for its uniformity, lightness of color and high tensile strength. That is why it is the logical choice of the architect and engineer for all kinds of concrete work.

Write for Our Book, "41 Concrete Reasons"

LEHIGH PORTLAND CEMENT COMPANY

Western Office: CHICAGO NEW YORK OFFICE: 261 Broadway Eastern Office: ALLENTOWN, PA.

TWO NEW BOOKS

"Plumbing Plans and Specifications"
"Plumbing Estimates and Contracts"

By J. J. COSGROVE

THESE two books are practical treatises on their respective subjects and contain such information as has long been needed by everyone interested in plumbing and sanitation.

There are many helpful and explanatory notes and suggestions that tend to simplify the art of preparing plans, writing satisfactory specifications, intelligently estimating the cost of plumbing, reading plans, office methods, business laws, etc., etc.

They are neatly and durably bound in cloth with gilt edges. They are equally valuable to every Architect, Plumber, Contractor, Engineer, in fact anyone who is interested in plumbing and sanitation. The price is \$3.00 prepaid.

BOOK DEPARTMENT

THE AMERICAN ARCHITECT

239 West 39th Street, New York



It Is Worth While for Architects to Know

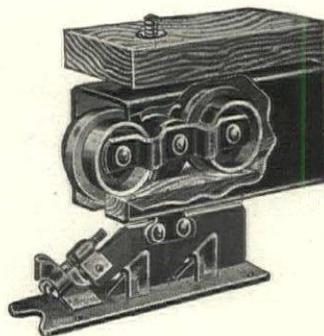
that we have the largest and best equipped plant in the world for the manufacture of **Plastic Ornaments and Decorative Work of all kinds in Plastic Materials.**

We are constantly engaged in executing the designs of architects throughout the country in ornamental plaster, composition and cement work for theatres, hotels and other public buildings, and dwelling houses. We have the experience and the "know how" as well as the facilities.

THE DECORATORS' SUPPLY CO.

Archer Avenue and Leo Street

CHICAGO



THE Architects specify this Richards Royal House Door Hanger for the peace of mind it brings.

The adjustment in both hanger and track, wide flanged ball bearing wheels running on encased hard maple track, that noiseless operation all serve the best interest of your clients.

Specify Richards Royal and you have all you can ask for in house door hangers.

Ask for Catalog 10

Richards-Wilcox

MANUFACTURING CO. AURORA, ILL. U.S.A.

Door Hangers and Hardware Specialties

ONE OF THE 40,000 HOMES



PARK AVENUE RESIDENCE, NEW YORK
Messrs. Delano & Aldrich, Architects

Heated and Ventilated by the
KELSEY Warm Air Generator System

KELSEY HEATING supplies a constant change of properly warmed air to every room. No other system is so efficient, healthful and economical

LET US SEND YOU BOOKLET
"Achievements in Modern Heating"

KELSEY HEATING CO.

SYRACUSE, N. Y.

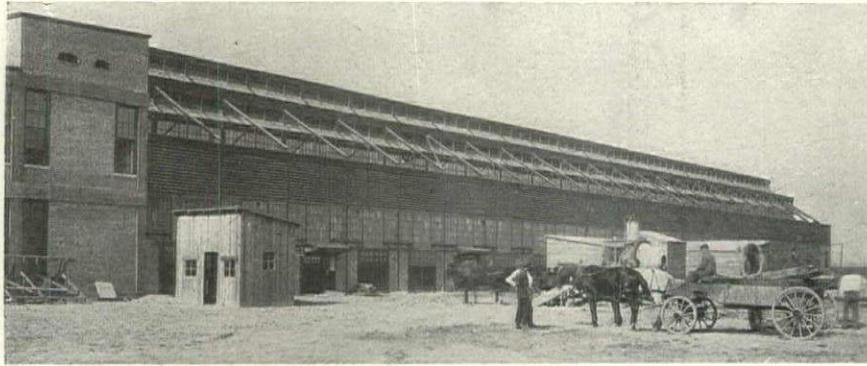
New York Office, 156 Fifth Avenue

**CUTS
USED IN THIS
PUBLICATION
ARE MADE
by the**

**MOSS
PHOTO
ENGRAVING CO.**

**PVCK BUILDING
295-309 LAFAYETTE ST. COR. HOUSTON
NEW YORK**

TELEPHONE 81 SPRING
ESTABLISHED 1871



Forge Shops require Regula- ted Ventilation

The "Straight-Push" Sash Operator was used in both instances, handling lines of pivoted sash in lengths of 100 to 200 linear feet.

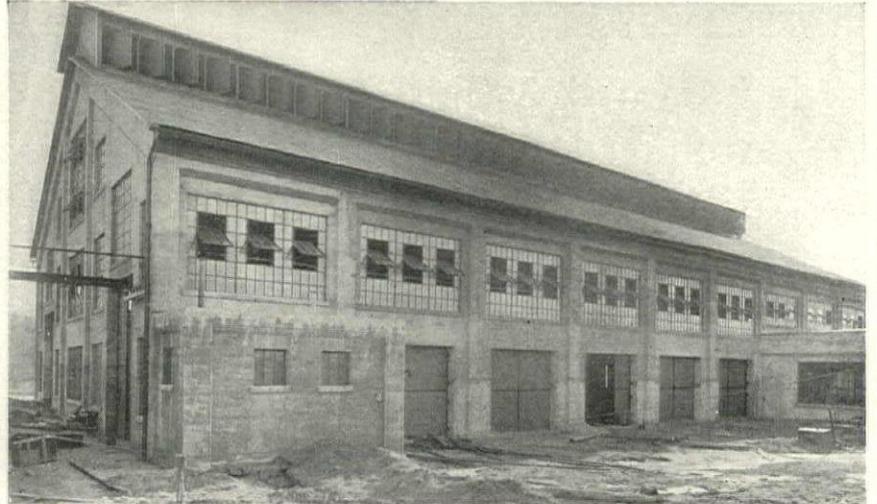
Forge Shop, Packard Motor Car Co., Detroit, Mich. Mr. Albert Kahn, Architect; Mr. Ernest Wilby, Associate

Straight-Push Sash Operators

insure sash opening evenly and easily, with a few pulls of chains, and locking tightly, when closed. Sash are firmly held against wind pressure at the different angles. Economy—better ventilation results.

Blueprints and full details on request

The
G. Drouvé Company
Bridgeport, Conn.
180 N. Dearborn St., Chicago



Forge Shop, Billings and Spencer Co. Messrs. Ford, Buck & Sheldon, Architects and Engineers

Eureka Linen Fire Hose

"Eureka" is the best Fire Hose made. All sizes for every possible use.



Hose always on hand ready for immediate delivery. Made to last.

Our Two Leading Brands Are

Eureka Best Linen and Eureka 20th Century

The only circular and seamless woven brands of fire hose made that possess four, three and two entirely distinct and independent plies, and can be entirely separated, and possess four, three and two warp and filling threads.

We are also manufacturers of EUREKA WORTHY LINEN, PREMIER LINEN, TRADE LINEN and RED BALL LINEN.

We invite inquiries for prices and samples.

EUREKA FIRE HOSE MFG. CO., NEW YORK

Atlanta, Ga. Boston, Mass. Columbus, Ohio. Kansas City, Mo. Chicago, Ill. Denver, Colo. Minneapolis, Minn. Philadelphia, Pa. San Francisco, Calif. Spokane, Wash. Syracuse, N. Y.

Architectural Detail

shows up at its true value only when the proper system of lighting is employed.

For large interiors like the Pabst Harlem Restaurant in New York City (shown opposite), Semi-Direct Lighting by the "Frink" System gives the most efficient, artistic and economical illumination. It provides an exceptionally soft, evenly diffused light which adds class and distinction to the architectural details.



"FRINK" SYSTEM OF ILLUMINATION

has demonstrated its superiority in many of the more recent installations of world-wide importance, and together with the well-known J-M Linolite System of Electric Lighting embodies the highest perfection in art, efficiency and quality.

We design and execute special lighting effects of every description.

Write us your requirements and we will promptly submit data and estimates.

H. W. JOHNS-MANVILLE CO.

Sole Selling Agents for "Frink" Products

MANUFACTURERS OF ASBESTOS
AND MAGNESIA PRODUCTS.

ASBESTOS

ASBESTOS ROOFINGS, PACKINGS,
ELECTRICAL SUPPLIES, ETC.

Baltimore
Boston
Buffalo
Chicago

Cleveland
Dallas
Detroit

Indianapolis
Kansas City
Los Angeles

Milwaukee
Minneapolis
New Orleans

New York
Omaha
Philadelphia

Pittsburgh
San Francisco
Seattle
St. Louis

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.
Montreal, Que. Winnipeg, Man.

Toronto, Ont.

1419 Vancouver, B. C.



"PIERCE MARK."

For Low Pressure Steam and Hot Water Heating



"PIERCE MARK."

Pierce Boilers & Radiators

Pierce Boilers and Radiators are made in such a variety of styles and sizes that we have a boiler for every purpose.

Ask for catalogs.

Pierce, Butler & Pierce Mfg. Co.

Syracuse, N. Y.



"PIERCE MARK."

NEW YORK CITY
PHILADELPHIA
BOSTON

Cor. 4th Ave. & 22d St.
936 Arch St.
61 High St.

BALTIMORE
WASHINGTON
CLEVELAND

Builders' Exchange
Builders' Exchange
1145 Prospect Ave. S. E.



"PIERCE MARK."

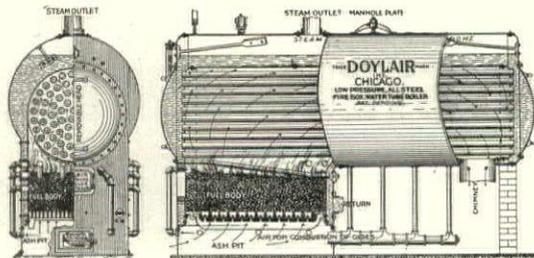
TRADE **Doylair** MARK
(INC.)

**SMOKELESS COMBUSTION
OF ALL FUEL**

Boilers

Furnaces

Stoves



Boilers

Furnaces

Stoves

Fuel is Money—Let us give you 50% more heat for your money than is done by any other method of burning fuel. Write for particulars.

173 North La Salle Street, Chicago, Ill., U. S. A.

A BOOK OF

GARAGES
COUNTRY AND SUBURBAN

The First Comprehensive Work
on This Subject Ever Published

The Structural Features of the Private Garage and Its Equipment.

The Care of the Car, Safe Handling and Storage of Gasoline
and topics of interest to Architect, Owner and Driver

One Hundred Illustrations

of the best types of recently constructed PRIVATE GARAGES, showing both exterior and interior views, floor plans, working drawings, etc., etc.

Descriptive Articles by Architects

whose success in the designing and planning of PRIVATE GARAGES is unquestioned

An Invaluable Book

to the ARCHITECT, BUILDER, OWNER and DRIVER. 96 pages, size 9"x12", bound in Cloth. Price \$4.00 Postpaid.

ADDRESS BOOK DEPARTMENT

THE AMERICAN ARCHITECT :: 50 Union Square, NEW YORK

A Shingle Roof as Durable and Fire-Proof as a Stone Foundation

The weak spot in the average dwelling has heretofore been the roof. Wood shingles rot, warp, loosen, etc. And they readily catch fire. Slate and tile split and break. And their great weight puts a severe strain on the rafters.

But J-M Transite Asbestos Fire-proof Shingles haven't a single one of these faults—haven't a single weakness of any kind.

J-M Transite Asbestos Shingles

They are as fire-proof and durable as a stone foundation. For they are all mineral—literally *stone* shingles. Made of *Asbestos* and *Portland Cement*.

Asbestos is a rock; and, like all rock, it is fire-proof and practically everlasting. And everybody knows that Portland Cement is the most permanent building material ever discovered. Buildings of cement construction erected by the Romans over 2,000 years ago are still in good condition.

More pleasing effects can be obtained with J-M Transite Asbestos Shingles than with any other kind of roofing material.

They are made in different shapes and sizes, and in three colors—gray, red and slate. Furnished punched for nails and ready to apply.

They weigh about a third less than slate. Thus they are much easier to handle and do not require such heavy rafters.

They are non-conductors of heat and keep a building cooler in Summer and warmer in Winter.

Write nearest Branch for full particulars.

H. W. JOHNS-MANVILLE CO.

Manufacturers of Asbestos and Magnesia Products **ASBESTOS** Asbestos Roofings, Packings Electrical Supplies, Etc.

Baltimore	Cleveland	Kansas City	New Orleans	Pittsburgh
Boston	Dallas	Los Angeles	New York	San Francisco
Buffalo	Detroit	Milwaukee	Omaha	Seattle
Chicago	Indianapolis	Minneapolis	Philadelphia	St. Louis

For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.
Toronto, Ont. Montreal, Que. Winnipeg, Man. Vancouver, B. C. 1615



Residence of Mr. Ignatius Horstman, Atlantic City, N. J. Covered with J-M Transite Asbestos Shingles. Betram Ireland, Architect. W. S. Bigbee, Builder.

SPECIFY SATINETTE

Its *Popularity* urges it
Its *Quality* justifies it
Its *Reliability* insures it

Satinette's
Popularity
Measures

ART IN AMERICAN ARCHITECTURE

Satinette's
Quality
Makes Our

BIG CITIES BEAUTIFUL

Immaculate
Habitable
Fresh, Sweet
and Practical

Satinette's Quality does not fluctuate. Satinette figures as a profitable investment for both buyer and seller, endorsed by all unbiased experts. Architects ordering Enamel and not getting it should SPECIFY SATINETTE

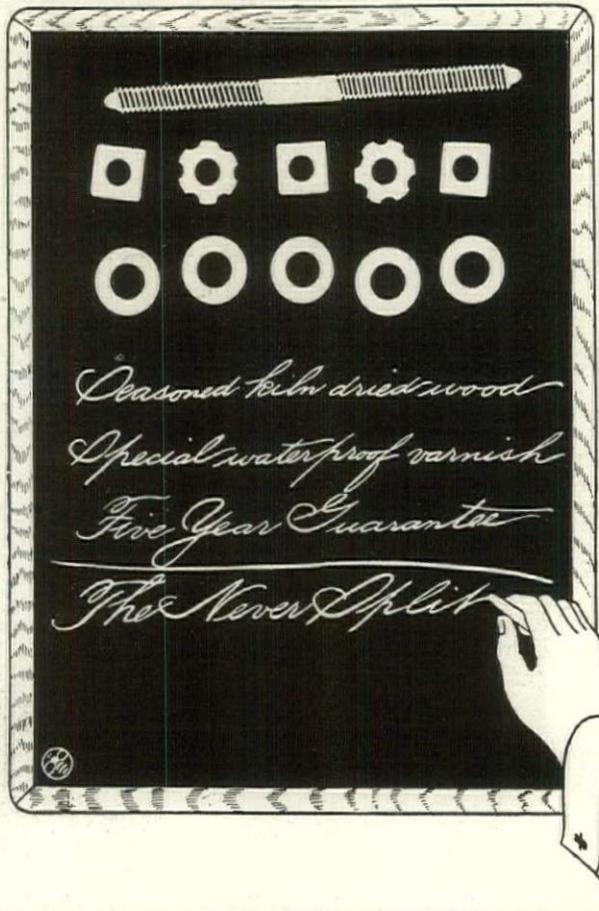
Satinette's
Reliability rests solidly on the fact that back of it stands the

STANDARD VARNISH WORKS

New York Chicago London Berlin Paris Brussels Melbourne

INTERNATIONAL VARNISH CO., Ltd., Toronto, Canada





Seasoned kiln dried wood
Special waterproof varnish
Five Year Guarantee
The Never Split

You Can Solve The Problem

of providing durable, sanitary, handsome closet seats for every building you plan by specifying

The "NEVER SPLIT" CLOSET SEAT

It is the only seat which meets in full the present day demand for sanitary seats. The bolted joints make open joints impossible. The run of the grain around the seat makes splitting impossible.

When you want to specify *the best*, write **the "NEVER SPLIT"** and see that you get it.

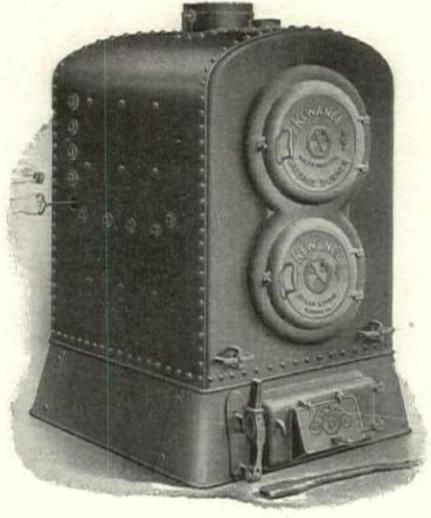
Write for our model seat and catalogue.



Look for this trademark on the under side of every **"NEVER SPLIT"**

NEVER SPLIT SEAT CO.

EVANSVILLE, IND., U.S.A.



KEWANEE WATER HEATING GARBAGE BURNER

FOR DESTROYING REFUSE WITHOUT ODOR

Burns all the Garbage. Destroys all the Odor. Heats all the Water you can use.

PATENTED
Send for Catalog No. 59

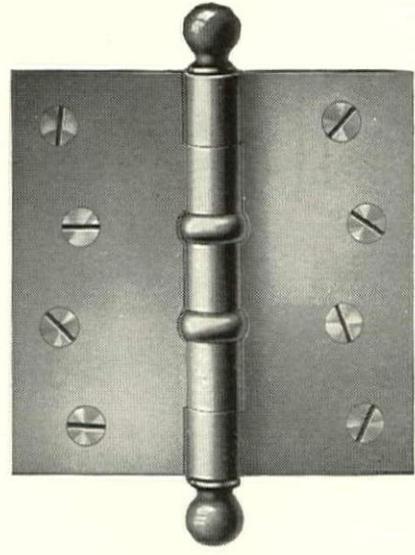
KEWANEE BOILER COMPANY

KEWANEE, ILLINOIS

Chicago St. Louis New York Kansas City Salt Lake City

DOORS

will never creak or bind



when hung on

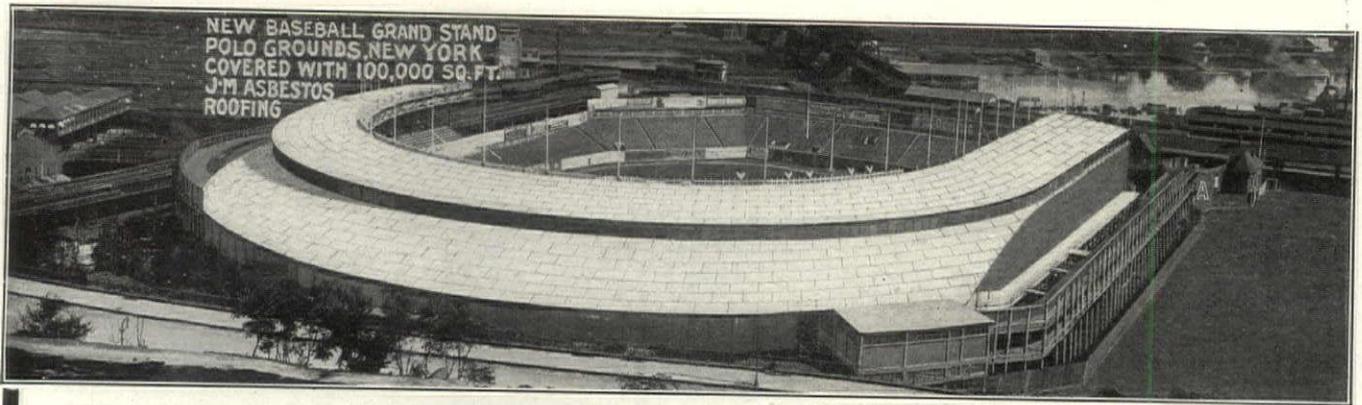
Stanley's Ball Bearing Hinges

Friction is eliminated; Oiling is unnecessary. NON-RISING Pins prevent the pins from working out of the joint

Write for Circular "AA" to

THE STANLEY WORKS

New York NEW BRITAIN, CONN. Chicago



The Largest Baseball Buildings in America Are Covered with J-M Asbestos Roofing

The importance of fireproof construction was so vividly demonstrated to the owners of the baseball grandstand at the Polo Grounds in New York by the disastrous fire which destroyed their \$200,000.00 structure last year that they decided to take no chances of a repetition. They therefore built the new grandstand, shown above, of materials approved by the highest authorities on fireproof construction—steel, concrete and J-M Asbestos Roofing.

Being made from Asbestos (rock) fibres and Trinidad Lake Asphalt, J-M Asbestos Roofing is all mineral all the way through—nothing in it to rust, melt, crack or deteriorate with age. It will ordinarily last as long as the building it covers. And it is the cheapest-per-year roofing because it is the only ready-to-lay roofing which never needs coating. Its first cost is the only cost. The grandstands and pavilions at Cleveland, Detroit, Washington and Toronto are also covered with J-M Asbestos Roofing. And the new grandstand and pavilion now being built at American League Park, Boston, will be covered with this practically indestructible roofing.

J-M Asbestos Roofing is suitable for any type of building, anywhere. Sold by most hardware and lumber dealers—or shipped direct from our nearest branch where we have no dealer.

Write for free sample of the curious Asbestos Rock from which this roofing is made and illustrated Catalog No. 303. Address nearest Branch.

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
Indianapolis

Kansas City
Los Angeles

Milwaukee
Minneapolis

New Orleans
New York

Omaha
Philadelphia
Pittsburgh

San Francisco
Seattle
St. Louis

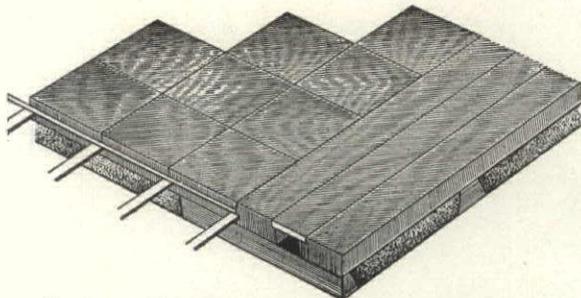
For Canada:—THE CANADIAN H. W. JOHNS-MANVILLE CO., LIMITED.
Toronto, Ont. Montreal, Que. Winnipeg, Man. Vancouver, B. C.

1582

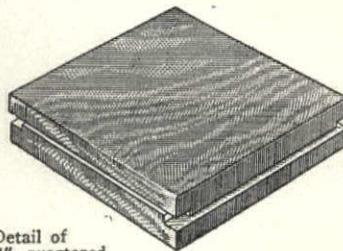
STEEL-WOVEN OAK FLOORING

FOR FIREPROOF BUILDINGS

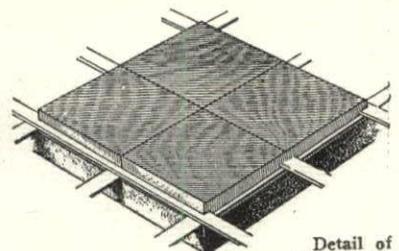
No big beams are inserted in the concrete. No sticking of blocks to concrete and tearing loose with change of season. The floor lies solidly of its own weight. In case of swelling, owing to dampness, or even flooding with water, the floor swells as a whole and takes up the compression space in the border. 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 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.

ROEBLING Standard Expanded Metal Lath



AFTER all, there are but two considerations that should influence your selection of a Metal Lath. They are cost and efficiency. We claim for our new product the highest efficiency with lowest cost.

Moreover, we can demonstrate the truth of our claim if given a fair opportunity. The form of the package has much to do with it.

Write Dept. E. for sample and prices

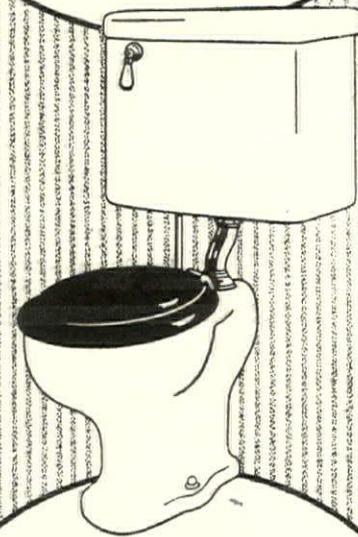
Roebling Construction Co.
Metropolitan Tower
NEW YORK

The "Si-wel-clo"

Noiseless Syphon Jet
Closet Combination

It can't be heard

when properly installed, with our special set of noiseless tank fittings, the Siwelclo is guaranteed to operate so quietly that it cannot be heard outside the immediate vicinity.



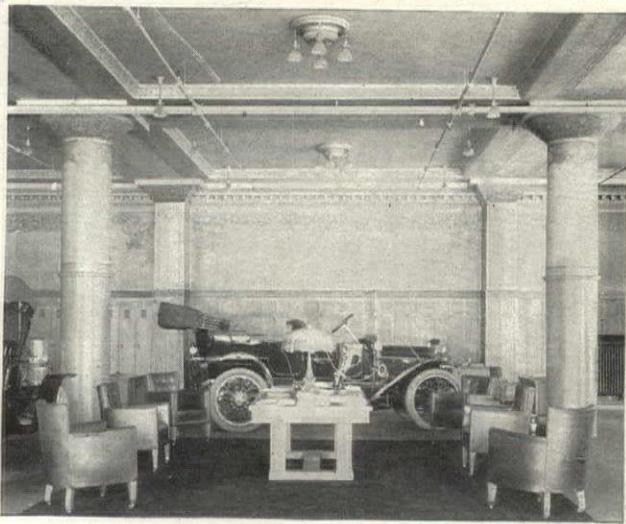
It took time and experience to perfect the Siwelclo. We've worked over it more than two years.

It was not until we secured these special fittings that the Siwelclo suited us as

A Residential Closet

SPECIFICATIONS: The Trenton Potteries Company Plate 982 complete, with the "Siwelclo" Noiseless Syphon Jet Closet, the "Bellemeade" Vitreous China Tank and set of special noiseless tank fittings.

The Trenton Potteries Co.
Trenton, New Jersey, U.S.A.
The World's Largest Makers of Sanitary Pottery.



Paneled Ceiling Type, for Wm. Ernest Walker, Arch.

AKME SYSTEM

REINFORCED CONCRETE CONSTRUCTION
REG. U.S. PAT. OFF.

Girderless Floor Construction.

As Structural Designers For Architects

We have developed this approved type of construction, which is not restricted to any one form of reinforcing bar, and desire to have Architects investigate its merits and the advantages it offers, both to them and to their clients.

A booklet containing this information and descriptions of various buildings erected on this system, as well as results of tests, will be mailed to architects and owners on request.



Flat Ceiling Type, for Wm. D. Mann, Arch.

CONDON COMPANY
Structural Engineers
1215 MONADNOCK BLOCK, CHICAGO



AMERICAN STEEL & WIRE CO'S

TRIANGLE MESH CONCRETE REINFORCEMENT

MADE in rolls.
Either solid or
stranded tension
members. A steel fabric of
great strength, reinforcing
in every direction.

"Engineer's Handbook of Concrete Reinforcement" furnished free upon request

We Make

- | | |
|--|-------------------------------|
| American Wire Rope | Barbed Wire |
| Aeroplane Wire and Strand | Woven Wire Fencing |
| Piano Wire | Fence Gates |
| Mattress Wire | Steel Fence Posts |
| Weaving Wire | Concrete Reinforcement |
| Broom Wire | Springs |
| Fence Wire | Sulphate of Iron |
| Flat Wire | Poultry Netting |
| Flat Cold Rolled Steel | Wire Rods |
| Wire Hoops | Juniata Horse Shoes and Calks |
| Electrical Wires and Cables | Shafting Cold Drawn Steel |
| Rail Bonds | Wire of Every Description |
| Bale Ties, Tacks, Nails, Staples, Spikes | |

We issue separate catalog for each of these. Gladly furnished upon application.

American Steel & Wire Co.'s Sales Offices

CHICAGO, 72 West Adams Street. NEW YORK, 30 Church Street.
WORCESTER, 94 Grove Street. BOSTON, 120 Franklin Street. PITTS-
BURGH, Frick Building. CINCINNATI, Union Trust Building. CLEVELAND,
Western Reserve Bldg. DETROIT, Ford Building. ST. LOUIS, Third
Nat'l Bank Bldg. MONTREAL, Bank of Ottawa Bldg. ST. PAUL-MINNE-
APOLIS, Pioneer Building. St. Paul. DENVER, First Nat'l Bank Bldg.
SALT LAKE CITY, 738 South 3rd West Street.

United States Steel Products Company

Export Department: New York, 30 Church Street.
Pacific Coast Department: San Francisco, Bialto Building. Portland,
Sixth and Alder Sts. Seattle, 4th Ave. South & Conn. St.
Los Angeles, Jackson & Central Ave.



Preserving the Architect's Handiwork

The architect builds with the thought in mind that he is erecting a monument to himself that will go down to posterity. The ravages of time, however, takes its toll and the structure that is admired today is looked upon with scorn in another generation unless the architect takes proper precaution to protect his building.

The first step towards this protection is the selection of the right paint materials.

Dutch Boy Painter White Lead

and pure linseed oil make a beautifying and protective coating of great durability for both interior and exterior work. See that your painter uses these materials. The Dutch Boy Painter trade-mark is on the side of each keg containing our white lead.

National Lead Company

New York

Boston

Buffalo

Chicago

Cincinnati

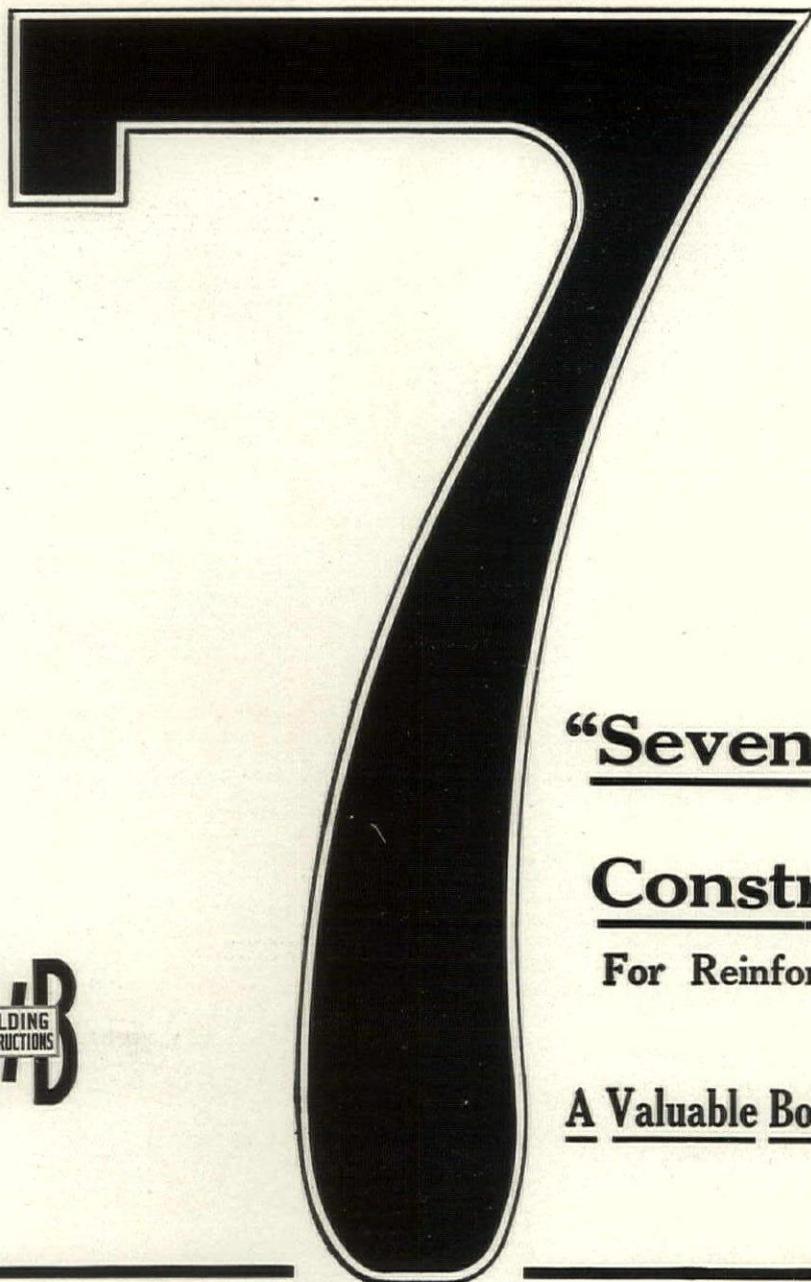
Cleveland

St. Louis

San Francisco

(John T. Lewis & Bros. Co., Philadelphia)

(National Lead & Oil Co., Pittsburgh)



“Seven Types
of
Construction”
For Reinforced Concrete

A Valuable Book for Architects

¶ **Architects:** We have just off the press a booklet entitled, *“Seven Types of Construction.”*

¶ The purpose of this book is not to advocate any particular type of construction; on the contrary it is to assist you in determining upon the type or combination of types exactly suited to the conditions of spans, loads or desired architectural effects in any contemplated building.

¶ The Seven Types comprise, in addition to the exclusive M-B Types, every known method of reinforced concrete construction in accordance with accepted engineering practice, hence this booklet is not biased in favor of any.

¶ It mentions, however, as matters of special news value, our *M-B Compact Concrete Column Construction*, which enables the erection of an all-reinforced concrete building of almost any height, with lower story columns no larger than those used in structural steel construction; also our *M-B No-Beam Construction*—in which there are no beams or girders (this is the only type of flat slab construction in which the stresses in steel and concrete can be checked by the same formulas as are adopted by architects and engineers for other types of concrete construction); it also tells about the M-B Types of Tile Floors and gives tables of relative costs, together with comparative rates of insurance.

This Valuable Book will be sent to you FREE on request. Ask for “SEVEN TYPES.”

WILLIAM B. HOUGH COMPANY

“Where the Reliable Reinforcing Steel Comes From”

MAIN OFFICE
CHICAGO, U. S. A.

Des Moines	Minneapolis	Detroit
Indianapolis		Omaha

SECTION **35** B CATALOG 5
VITREOUS CHINA LAVATORIES
THOS. MADDOCK'S SONS CO.

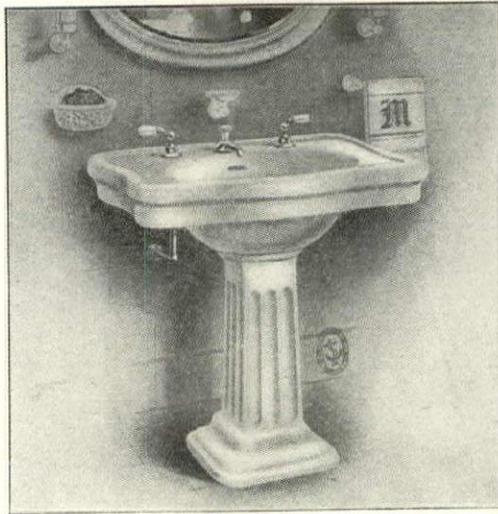


PLATE 2009-S

HOW TO SPECIFY—"Maddocks" White vitreous china swelled front lavatory, plate 2009-S; size (see below), with vitreous china fluted pedestal. Fitted with nickel-plated brass combination pop-up waste fixture with china waste knob and Fuller supply valves with china handles and metal escutcheons; nickel-plated brass supply pipes to wall and nickel-plated brass 1 1/4" waste trap to wall.

DIMENSIONS	26" x 22"	30" x 24"	33" x 24"
Lavatory Slab	26" x 22"	30" x 24"	33" x 24"
Bowl	16 1/2" x 12 1/2" x 6"	18 1/2" x 13 1/2" x 6"	18 1/2" x 13 1/2" x 6"
LIST PRICES			
Complete as specified	\$64.50	\$72.50	\$82.50
Lavatory Slab only, no fittings	21.00	29.00	39.00
Pedestal only	11.00	11.00	11.00



PLATE 2013-S

HOW TO SPECIFY—"Maddocks" White vitreous china swelled front lavatory, plate 2013-S; size (see below), with vitreous china pedestal. Fitted with nickel-plated brass standing waste fixture with china waste knob and nickel-plated brass Fuller faucets with china handles; nickel-plated brass supply pipes to wall and nickel-plated brass 1 1/4" waste trap to wall.

DIMENSIONS	26" x 22"	30" x 24"	33" x 24"
Lavatory Slab	26" x 22"	30" x 24"	33" x 24"
Bowl	16 1/2" x 12 1/2" x 6"	18 1/2" x 13 1/2" x 6"	18 1/2" x 13 1/2" x 6"
LIST PRICES			
Complete as specified	\$51.50	\$59.50	\$69.50
Lavatory Slab only, no fittings	21.00	29.00	39.00
Pedestal only	11.00	11.00	11.00

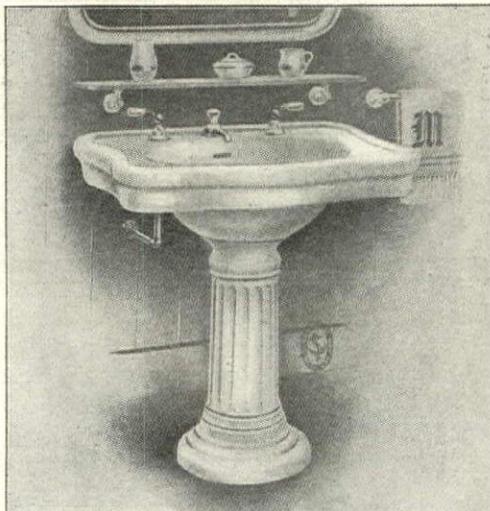


PLATE 2011-S

HOW TO SPECIFY—"Maddocks" White vitreous china swelled front lavatory, plate 2011-S; size (see below), with vitreous china fluted pedestal. Fitted with nickel-plated brass combination pop-up waste fixture with china waste knob, Fuller supply valves with china handles and escutcheons; nickel-plated brass supply pipes to wall and nickel-plated brass 1 1/4" waste trap to wall.

DIMENSIONS	26" x 23"	30" x 24"	33" x 24"
Lavatory Slab	26" x 23"	30" x 24"	33" x 24"
Bowl	16 1/2" x 12 1/2" x 6"	18 1/2" x 13 1/2" x 6"	18 1/2" x 13 1/2" x 6"
LIST PRICES			
Complete as specified	\$64.50	\$72.50	\$82.50
Lavatory Slab only, no fittings	21.00	29.00	39.00
Pedestal only	11.00	11.00	11.00



PLATE 2030-S

HOW TO SPECIFY—"Maddocks" White vitreous china barber lavatory, plate 2030-S; size 27" x 22", with hooded overflow and vitreous china pedestal. Fitted with nickel-plated brass pop-up waste with china waste knob, nickel-plated brass combination shampoo fixture with mixing chamber, nickel-plated brass Fuller faucets with china handles and china indexes. Mixing valve with china handle, shampoo valve with china-tipped compression handle, nickel-plated brass supply pipes to wall and nickel-plated brass 1 1/4" waste trap to wall.

DIMENSIONS	27" x 22"
Lavatory Slab	27" x 22"
Bowl	16 1/2" x 12 1/2" x 6"
LIST PRICES	
Complete as specified	\$110.35
Lavatory Slab only, no fittings	28.35
Pedestal only	11.00

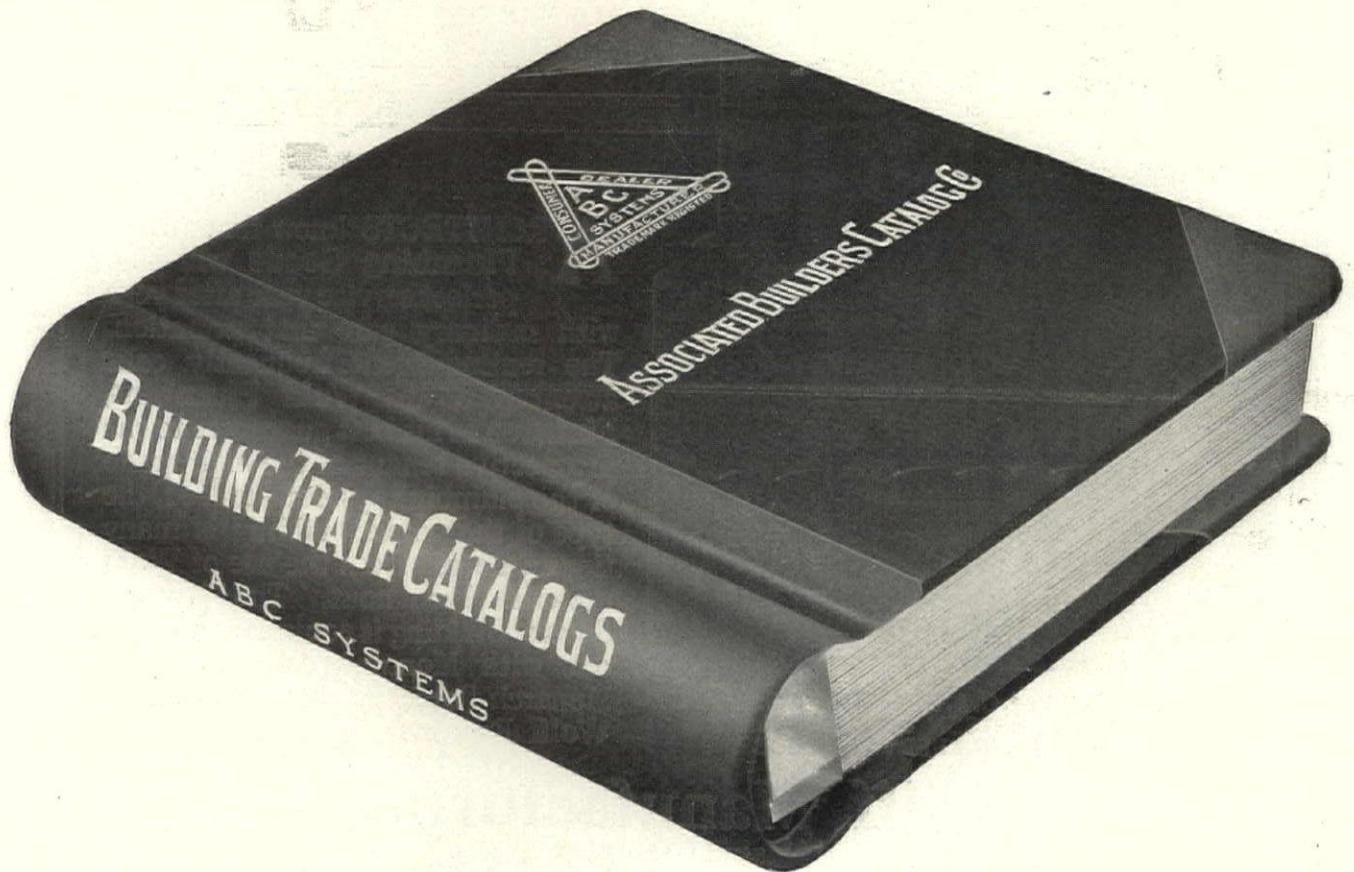
"A.E.C." SYSTEMS

Continued on next page

The above is a reduced facsimile of manufacturer's catalog page (standard size 10 1/2" x 12") in "Building Trade Catalogs." See opposite page for announcement.

The opposite page shows a reduced facsimile of a page from the complete catalog of Thomas Maddock's Sons Company, as it is incorporated into Building Trade Catalogs (The A. B. C. System). The catalog of Thomas Maddock's Sons Company with over one hundred illustrations showing their full line of Vitreous China plumbing fixtures has been standardized and condensed in Building Trade Catalogs, so that Architects can instantly make selections and use the specification data and technical descriptions of this important line of products.

This is one of the most important catalogs included in the extensive contents of Volume "A" of Building Trade Catalogs and clearly demonstrates the practicability of the locked loose-leaf plan of the A. B. C. System to present and maintain complete catalogs in the offices of specifying Architects.



DELIVERED TO ARCHITECTS WITHOUT CHARGE UPON REQUEST
HAVE YOU SENT IN YOUR REQUEST?

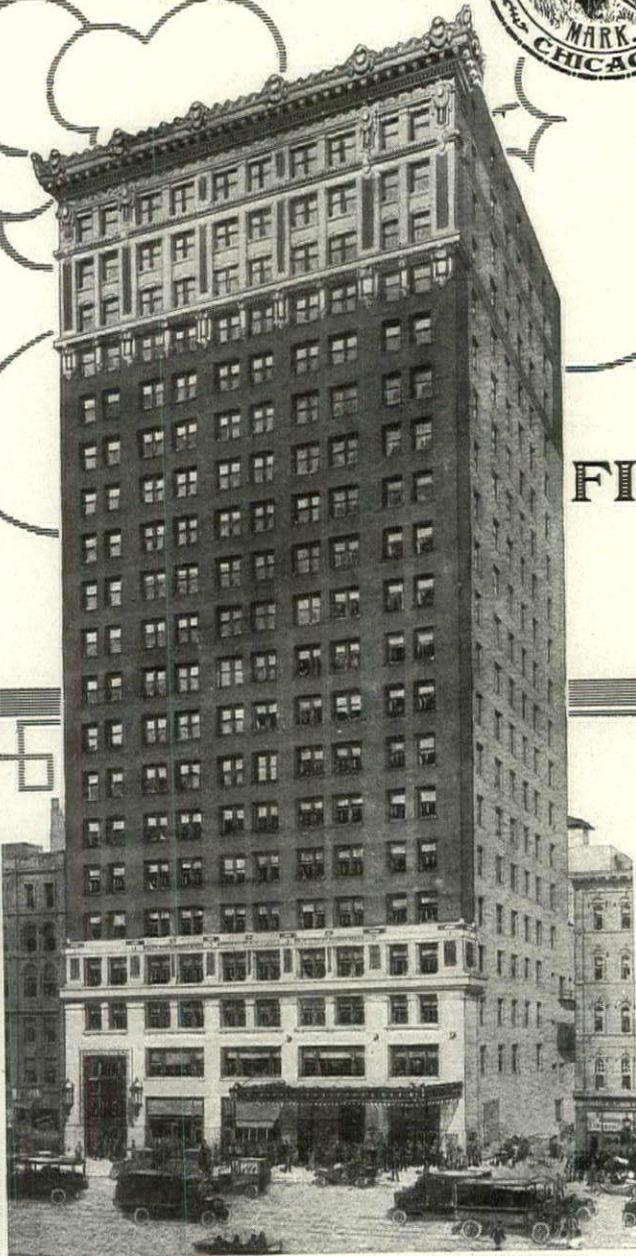
Associated Builders Catalog Co.

225 West 39th Street, New York City



WOLFF Plumbing GOODS

FIFTY SEVEN YEARS
OF QUALITY



Architect of Building, C. A. ECKSTORM. General Contractor, F. P. NELSON & SONS. Plumbing Contractor, HULBERT & DORSEY.

ARCHITECTS know that **Wolff Plumbing Goods** will give perfect service year after year with ordinary care and attention. The renting agent frequently calls attention to the **Wolff Plumbing Fixtures** as his best guarantee to the prospective tenant of the high grade of the plumbing system—indeed, the type of the whole building is many times inferred from the use of **Wolff** material throughout. The City Hall Square Building is equipped throughout with Monument Vitreous and Monarch Porcelain Fixtures from the **Wolff** Factories.

L. Wolff Manufacturing Co.

Manufacturers of

PLUMBING GOODS EXCLUSIVELY

The Only Complete Line made by any one firm

General Offices:
601-627 W. LAKE STREET, CHICAGO
TRENTON, N. J.

Showrooms:
111 N. DEARBORN STREET, CHICAGO
DENVER, COLO.

Branch Offices:

ST. LOUIS, MO., 2210-2212 Pine St.
MINNEAPOLIS, MINN., 515 Andrus Bldg.
KANSAS CITY, MO., 1204 Scarrett Bldg.
SAN FRANCISCO, CAL., Monadnock Bldg.
CINCINNATI, O., 506 Lyric Bldg.

CLEVELAND, O., Builders' Exchange
WASHINGTON, D. C., 327 Bond Bldg.
OMAHA, NEB., 1116-1118 Douglas St.
BUFFALO, N. Y., 67 Manchester Pl.
DALLAS, TEX., 2107 Pacific Ave.

GRUEBY NON-SLIP NOISELESS TILE

(PATENT APPLIED FOR)



Accidents due to slipping are impossible where GRUEBY NON-SLIP TILE are used. The raised lines of vitrified clay offer greater frictional resistance than paving brick and their arrangement is such that they grip the ball and heel of one's shoe. Uncovered stair treads of this material are not only entirely feasible from a manufacturing standpoint, but they are intensely practical from the standpoint of durability and safety afforded. From a standpoint of their artistic excellence they mark a new and advanced era.

You will appreciate these facts more readily if we are permitted to send you a sample.

Address—GRUEBY FAIENCE AND TILE CO.
K and First Streets - - BOSTON, MASS.

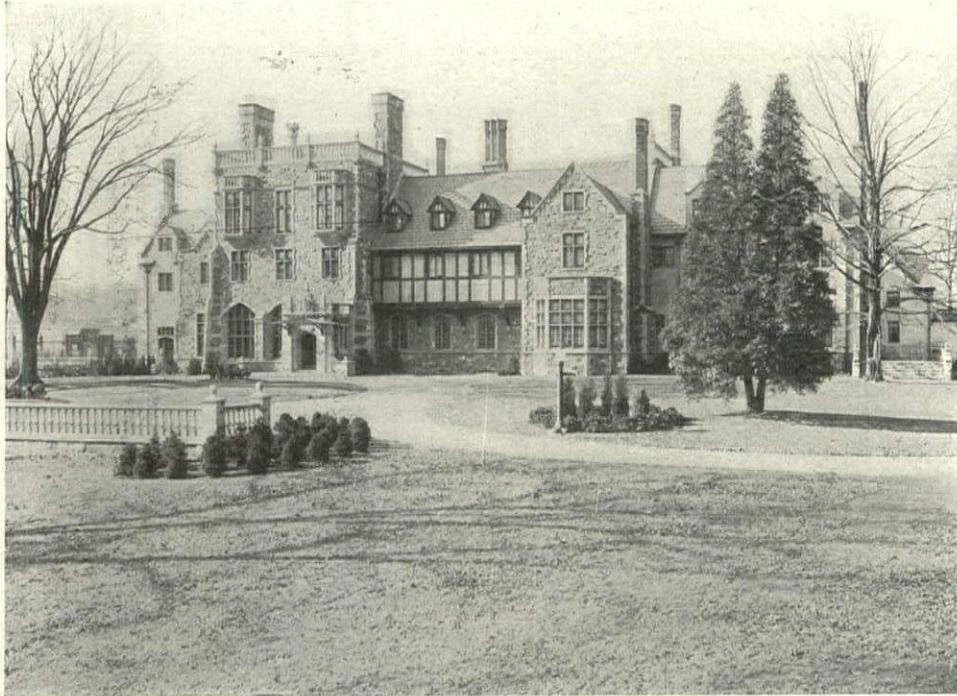
Representatives

WM. MOORE CO.
305 Real Estate Trust Building
Philadelphia, Pa.

H. A. WALTERS
1153 Peoples Gas Building
Chicago, Ill.

CARL ENOS NASH
705 Auditorium Building
Los Angeles, Cal.

AUTOMATIC REFRIGERATION FOR RESIDENCES



RESIDENCE OF MR. FREDERICK F. BREWSTER, NEW HAVEN, CONN.
Messrs. Stephenson & Wheeler, Architects, New York
Equipped with **AUTOMATIC** Refrigerating and Ice Making Plants

Automatic Refrigerating Plants are peculiarly adapted for installation in High Class Residences doing away with the disagreeable visits of the Ice man, and the Automatic control and Safety Devices doing away with the disagreeable features usually associated with Mechanical appliances in the Household.

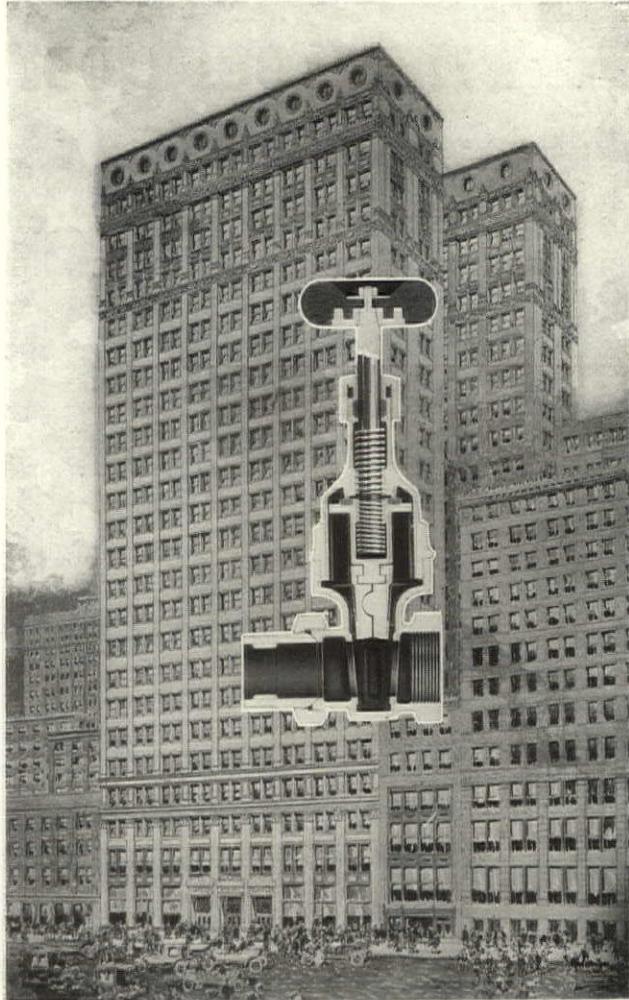
We are always glad to assist Architects in every possible way and will be pleased to answer their questions and on receipt of plans to make estimates and offer suggestions based on our experience.

Let us do this for you—

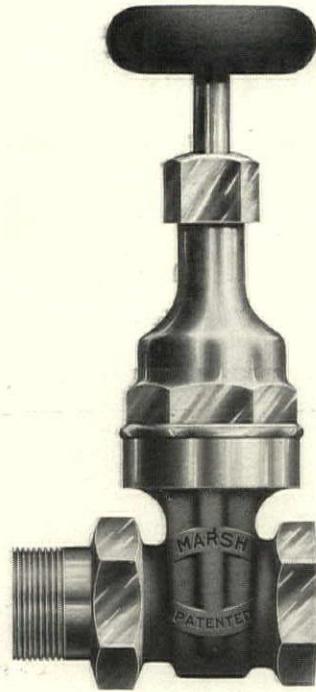
THE AUTOMATIC REFRIGERATING COMPANY

Main Office and Works : HARTFORD, CONNECTICUT

We are the ONLY builders of AUTOMATIC Refrigerating plants and are thoroughly protected by Patents



FIRE COMPANIES BUILDING
 No. 80 Maiden Lane, New York City
 Architects
 D. H. Burnham Co., Chicago, Ill.
 Contractors
 Thompson-Starrett Co., New York City



MARSH Gate Valves

are full opening, giving un-interrupted passageway and are fitted with *special bronze alloy, double self-adjusting ball and socket, ground discs.*

There were **1841 Marsh Radiator Valves**, of which

1799 were **Union Gates**, like cut above, used in this building.

Marsh Valves are quick opening, have an upper seat and will not leak in any position. Every valve bears our trade mark and is fully guaranteed.

Marsh Valves stand for quality, have extra heavy metal lines and are of heavy and graceful design.

Marsh Valves contain no springs or washers, balls or delicate parts to rust, corrode, or get out of order, with use.

The quick opening and upper seat features, with gland in stuffing-box, as a protection against leakage, should valve be left in a semi-open position, are applied to our complete line of heating system valves, globes, gates, angles and corner offset patterns.

Marsh Valves cost no more than other high grade valves. Catalog showing complete line, points of advantage, lists, etc., furnished on application.

MARSH VALVE COMPANY

General Offices: DUNKIRK, N. Y.

New York Office: 516 Flatiron Building

North Western Office: 501 4th Avenue, So., Minneapolis, Minn.

“Thorp-Richardson” Fire Proof Doors

“Make Each Room a Separate Building”

The use of “Thorp-Richardson” doors as applied to the *inside* of a modern building are shown in this illustration of the Laughlin Building, Los Angeles, Cal. John Parkinson, Architect.



Fire proof windows are unquestionably good—they may save the building from the fire which originates *outside*.

“Thorp-Richardson” Fire Proof Doors save the building from fires which start *within itself* by making each room a separate unit of safety.

Fully Described on Pages 610 and 611 “SWEET’S” 1911 Edition

REPRESENTATIVES IN PRINCIPAL CITIES

Thorp Fire Proof Door Co.

Minneapolis, Minn.



Pyrofuse

TRADE MARK

At Last A Perfect Garbage Destroyer
THE ACHIEVEMENT OF THE YEAR

How About Flies?

Wide-Spread Publicity is being given to the danger which the household fly brings to our homes, and no one doubts the justice of this attack by leading magazines and newspapers.

Banish the Fly

from the homes of your Clients by abolishing their breeding places.

The *Pyrofuse*
 is Placed
 in the
 Kitchen



The *Pyrofuse*
 Means
 No
 Garbage Man

PYROFUSE TYPE "F"

Individual Garbage Destruction

is made possible by the installation of the *Pyrofuse* System.

The *Pyrofuse* Method is simple, sanitary and economical. Place the garbage in the machine as it accumulates and burn once a day. No odor inside or outside the building. You are going to specify the *Pyrofuse* some day—Why Not Now?

Different Sizes and Styles.

J. B. Prescott & Son, Mfrs.

Factory and Main Offices, Webster, Mass.
 Branch Offices in Principal Cities



AN OPPORTUNITY FOR ARCHITECTS

to secure in beautiful and permanent form valuable and up-to-the-minute information on a 20th century architectural problem.

GARAGES

The Garage has become an artistic and practical addition to modern homes, country and suburban. The problems presented, and their solution, are completely handled in this remarkable work. There are authoritative articles, many photographs of the most beautiful country and suburban garages, together with plans and illustrations of details, mechanical and artistic.

If you see this work, you will add it to your library. Have a copy sent you on approval. Cloth, 9 x 12 inches, 96 pages, \$4.00 postpaid.

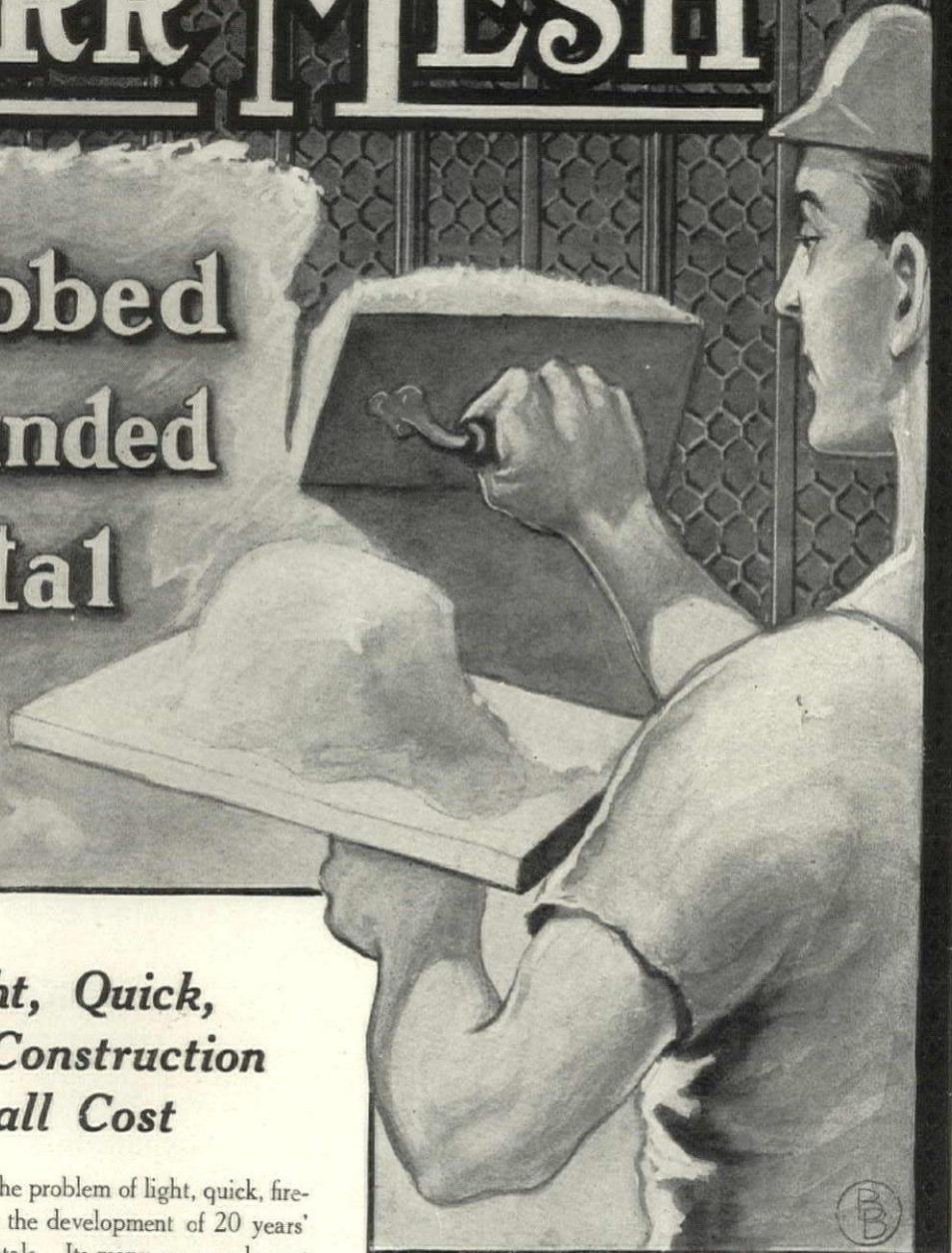
THE AMERICAN ARCHITECT
BOOK DEPARTMENT

50 Union Square,

New York City

CORR MESH

**A Ribbed
Expanded
Metal**



*For Light, Quick,
Fireproof Construction
At Small Cost*

Corr-Mesh has solved the problem of light, quick, fireproof construction, and marks the development of 20 years' experience with expanded metals. Its many uses and great economic features make it the universal building material.

Corr-Mesh is an expanded metal lath with high stiffening ribs, made in a single unit. **For walls and partitions, Corr-Mesh** is stud and lath combined. **For floors and roofs,** it saves the expense of centering. A 2-inch stucco wall on **Corr-Mesh** will serve as well as an 8-inch brick wall, and costs about one-half as much. It also saves one square foot of floor space every two running feet.

All architects should familiarize themselves with **Corr-Mesh**. Write for a copy of our 48-page **Corr-Mesh Handbook**, containing complete plans and specifications showing the many economical uses of this material.



CORRUGATED BAR COMPANY

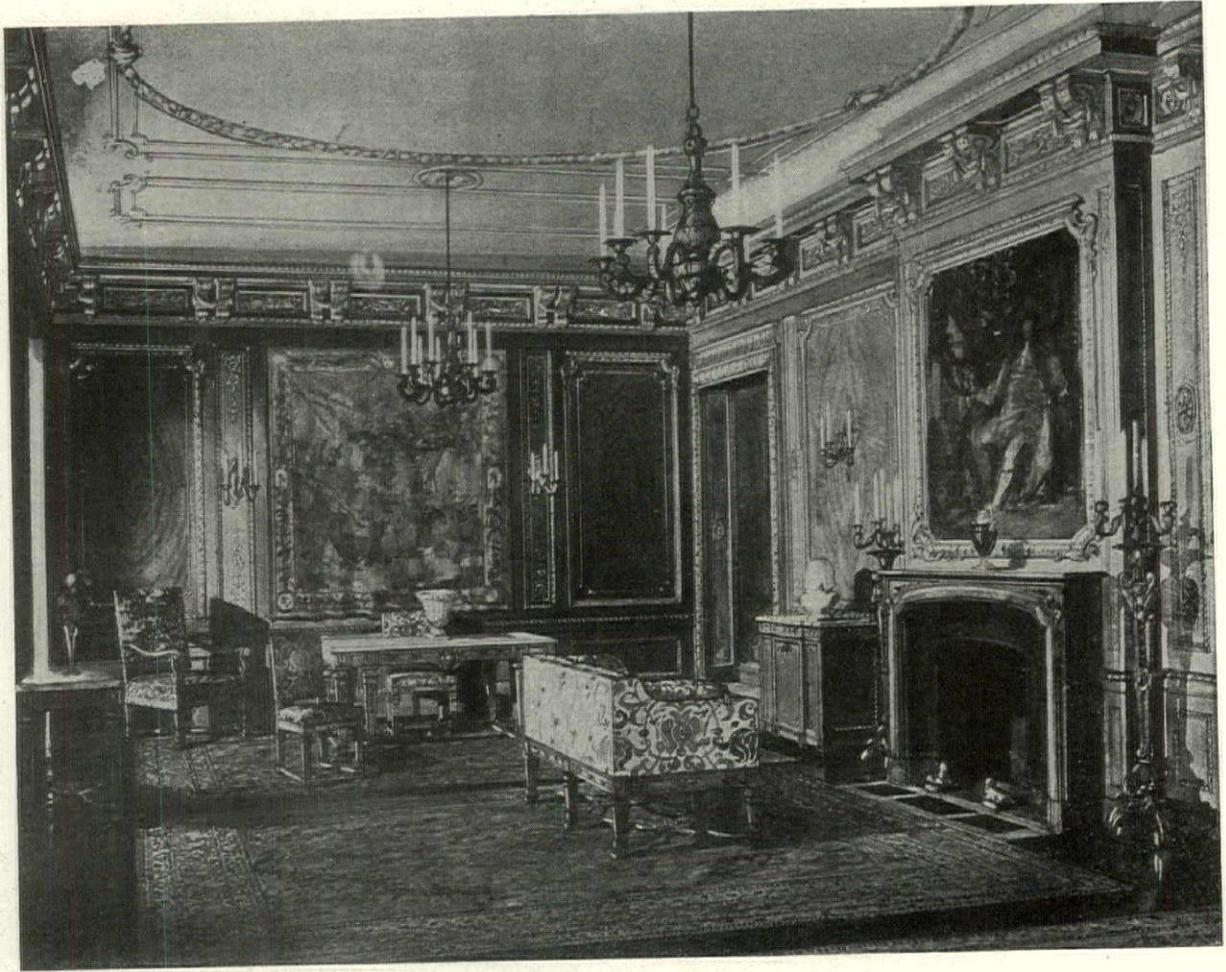
401 Mutual Life Bldg., Buffalo, N. Y.

NEW YORK

CHICAGO

ST. LOUIS





Suggestion for a Reception Room

THE TIFFANY STUDIOS request the privilege of consulting architects on the Interior Work, Ornamental Bronze and Leaded Glass contemplated for residences and public buildings. We have an organization of Artists and Experienced Decorators who will be pleased to submit decorative schemes, or, if desired, assist in the solution of difficult problems which frequently arise.

Estimates submitted on Cabinet Work, Lighting Fixtures, Hand Painted Hangings and Rugs, Furniture and Leaded Glass; and pamphlets sent upon request.

TIFFANY  **STVDIOS**
 347-355 MADISON AVE. COR. 45TH ST., NEW YORK CITY.
 CHICAGO OFFICE, ORCHESTRA BVILDING - BOSTON OFFICE, LAWRENCE BVILDING.



THE ADMISTON
NEW YORK CITY

GEORGE & EDWARD BLUM
ARCHITECTS

One of the many examples of recent metropolitan
apartments equipped throughout with
SARGENT Hardware.

A visit to our showrooms or inspection of our cata-
logue will furnish the explanation.

SARGENT & COMPANY, Hardware Makers, New Haven, Conn.
NEW YORK BOSTON PHILADELPHIA CHICAGO
SARGENT HARDWARE is obtainable through representative hardware merchants in all cities

HARDWARE

The Question of Floors

The Working Space Floor



First National Bank, Chicago, Ill. D. H. Burnham & Co., Archts.

Quiet and Comfort are First Aids to Efficiency

To the Highest Degree They Are Assured by a Floor of Nonpareil Cork Tiling

Some Prominent Banks with NONPAREIL CORK TILE FLOORING

First National Bank, New York
 Bankers Trust Co., New York
 National City Bank, New York
 Guaranty Trust Co., New York
 Equitable Trust Co., New York
 Knickerbocker Trust Co., New York
 First National Bank, Chicago
 Canadian Bank of Commerce, Montreal
 Bank of Montreal, Winnipeg

Guardians Saving & Trust Co., Cleveland
 Fidelity Trust Co., Baltimore
 White Plains Savings Bank, White Plains, N.Y.
 Traders National Bank, Scranton
 Los Angeles Trust Co., Los Angeles
 Third National Bank, Atlanta
 Peninsular Bank, Detroit
 International Trust Co., Denver
 Equitable Trust Co., Washington, D. C.

This wide use of Nonpareil Cork Tiling in working spaces throughout the United States and Canada demonstrates that for WORKING SPACES,

Nonpareil Cork Tiling Is The Ideal Floor

David E. Kennedy, Inc., 2 West 45th St., New York City

Distributors for the Armstrong Cork Company

Write our nearest office for Catalog B and Samples

BOSTON CHICAGO PHILADELPHIA PITTSBURGH ST. LOUIS SAN FRANCISCO MONTREAL

Sweet's Catalog, Pages 296-297



Glad Architect - Glad Owner - Glad Builder



EVERYBODY

CONCERNED IN BUILDING

—for himself, or for others—now, or sometime later

IS PUT IN A FINE GOOD HUMOR

by simply discovering the agreeable *and profitable* FACT that

WHITE PINE and its half-brother NORWAY PINE

("THE BEST-NATURED WOODS ON EARTH")

are to be had today, in any quantity—without any more trouble than you encounter in getting anything else you want which is enough better than its substitutes to induce some merchants to urge something else on which they may make more. It is what you get in the way of value for your money that chiefly interests you. (Is it?)

DO ALL THE INSISTING NECESSARY. WHITE PINE IS WORTH IT.

"The Leader in the Markets for 250 Years." (U.S. Government Report Bulletin 99, October, 1911)

YES—WE HAVE A LITTLE BOOK—
and a very interesting and illuminating one it is. Just jot your name, address and *why you care*, on a postal—or write a regular letter (better yet)—and we shall be glad to send you "WHY-WHEN—WHITE PINE."

We invite you to WRITE US before specifying ANY substitute lumber. Our reply will be PROMPT, and CANDID and thoroughly informative.

NORTHERN PINE Manufacturers' Association

1120 Lumber Exchange

Minneapolis, Minnesota



Fifty-three Years

The first manufacturers of sanitary earthenware in the United States were Thomas Maddock's Sons Company.

This was in 1859.

During these fifty-three years the industry has grown to enormous proportions.

But Thomas Maddock's Sons Company has never been out-distanced in the quality and design of sanitary pottery.

Their lead, they have not only maintained, but increased.

The superiority of Maddock's White China Bathroom Fixtures is known and recognized throughout the plumbing trade.

Ask for our catalogue.

Thos. Maddock's Sons Co.

Trenton, N. J.



HY-RIB
Walls, Sunset
Publishing
Co., San Fran-
cisco, Cali.
Geo. W. Kel-
ham, Archt.

Note attrac-
tive Architec-
tural appear-
ance made
possible by
use of HY-
RIB Concrete
Construction

HY-RIB is a steel sheathing with deep stiffening ribs, a combined unit of reinforcement, centering, studs, and lath; for floors, roofs, ceilings, sidings and partitions.

HY-RIB Steel Sheathing plastered with cement makes a thin monolithic wall at half the cost of brick, which will not rot, crumble or burn.

HY-RIB Partitions are strong and rigid—simple to build, no studs being required.

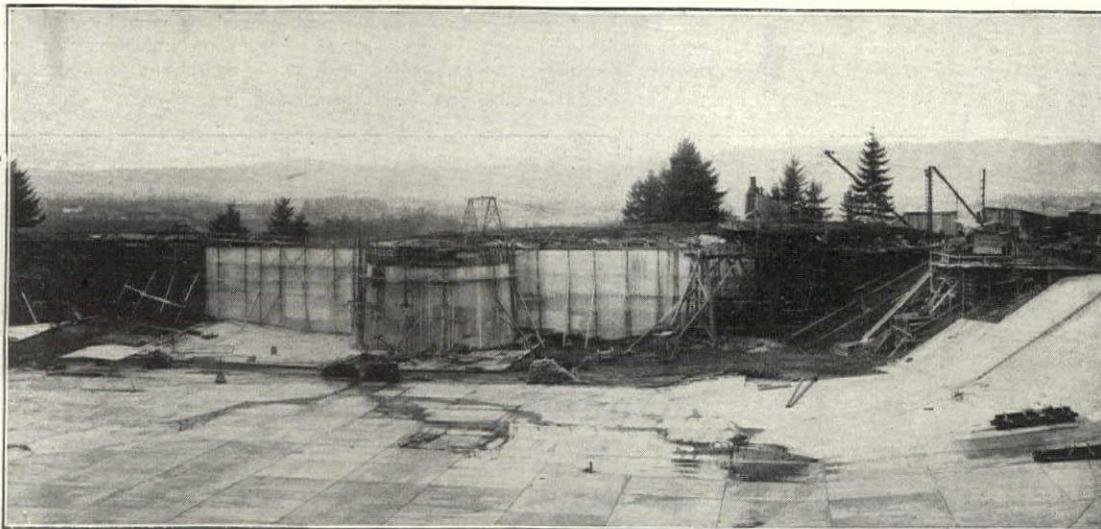
HY-RIB



Thin concrete roofs, light in weight, are made by merely laying the HY-RIB over the supports and pouring on the concrete.

In HY-RIB Ceilings no channels, tees or flats are required, saving labor, time and expense.

HY-RIB Hand Book—112 pages of valuable data, illustrations, details, etc. Sent FREE if you write us about your proposed Building.



MOUNT TABOR RESERVOIR, PORTLAND, ORE. Head Gates of this Large Reservoir Waterproofed with TRUS-CON WATERPROOFING PASTE.

TRUS-CON WATERPROOFING PASTE is Most Economical

TRUS-CON WATERPROOFING PASTE saves the special mixing and expensive field labor required for dry powders and does away with the great expense of special felts and bitumens.

The use of TRUS-CON WATERPROOFING PASTE is very simple, merely dissolve it in the water used in mixing the concrete or mortar and secure the most positive and permanent waterproofing. The entire mass is thoroughly and uniformly waterproofed as the Paste is distributed with the water to all parts of the concrete. Chipping or abrasion of the surface does not affect its waterproofing qualities. It can be added to the entire concrete mass or concentrated in a plaster coat on the surface of the structure.

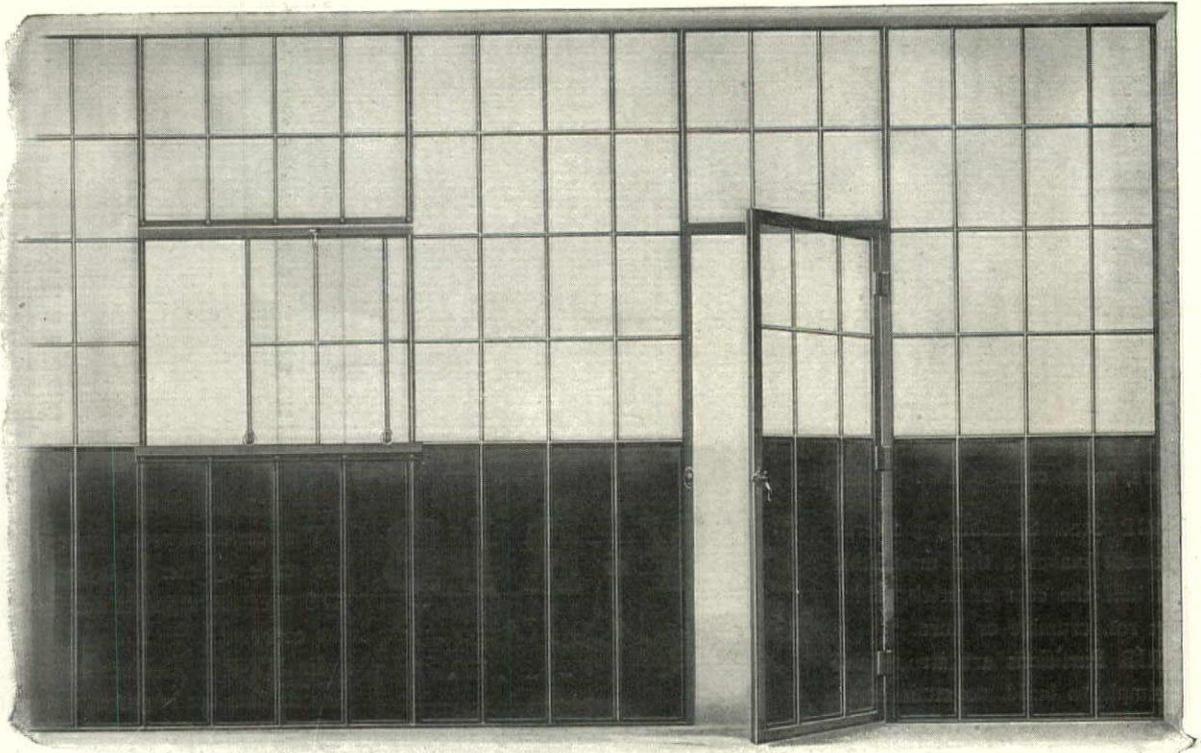
“SCIENCE AND PRACTICE COMBINED IN WATERPROOFING.” A Valuable Hand Book containing full data, specifications, illustrations, reports and advice, covering all kinds of waterproofing problems. Sent FREE upon request.



Trussed Concrete Steel Co.

DETROIT, MICH.



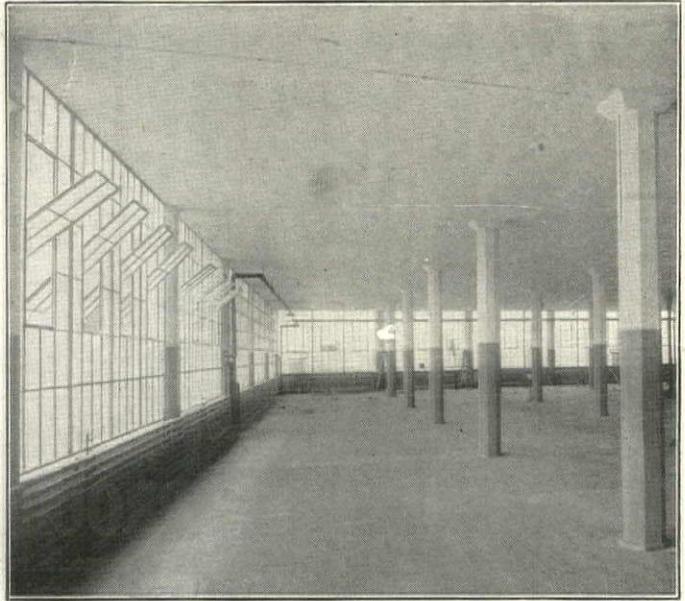


MOVABLE PARTITIONS OF STEEL AND GLASS

The greatest modern improvement in Partition Construction. An ALL-STEEL Partition made up of UNITED STEEL SASH Units to fit any sized space.

The UNITED STEEL PARTITION is set up quickly, readily taken down and moved to new locations, saving time, inconvenience and expense. Only 1½ inches thick, increasing the floor space. Fireproof, indestructible, and lets in floods of daylight. Furnished with any proportions of steel and glass, and with swinging or sliding doors, to meet all requirements.

Write for Literature and Estimates on United Steel Partitions



Monotti-Larimer Bldg., San Francisco. UNITED STEEL SASH and KAHN SYSTEM Concrete Construction Throughout. American Electrical Heater Co., Detroit, Mich. UNITED STEEL SASH and KAHN SYSTEM Concrete Construction Throughout.

UNITED STEEL SASH MAKE INTERIORS BRIGHT AS DAY

A Daylight Factory is a cost saver. Men work better and do better work, with less waste of time and material. UNITED STEEL SASH are proof against storm and fire, cutting insurance, eliminating danger from accidents, making sanitary factories with contented workmen. Every foot of floor space in a Daylight Factory is available.

UNITED STEEL SASH are made of solid steel sections, unweakened by cutting or punching. Have wide ventilators with double contact joints to keep out drafts and storms. Made in all sizes and styles of pivoted and sliding sash for Windows, Monitors, Partitions and Doors.

1912 UNITED STEEL SASH Hand Book.—104 large pages of valuable Data, Illustrations, Details, Etc. Sent FREE, if you write us about your Building



Trussed Concrete Steel Company

DETROIT, MICHIGAN



G. E. Panel Boards



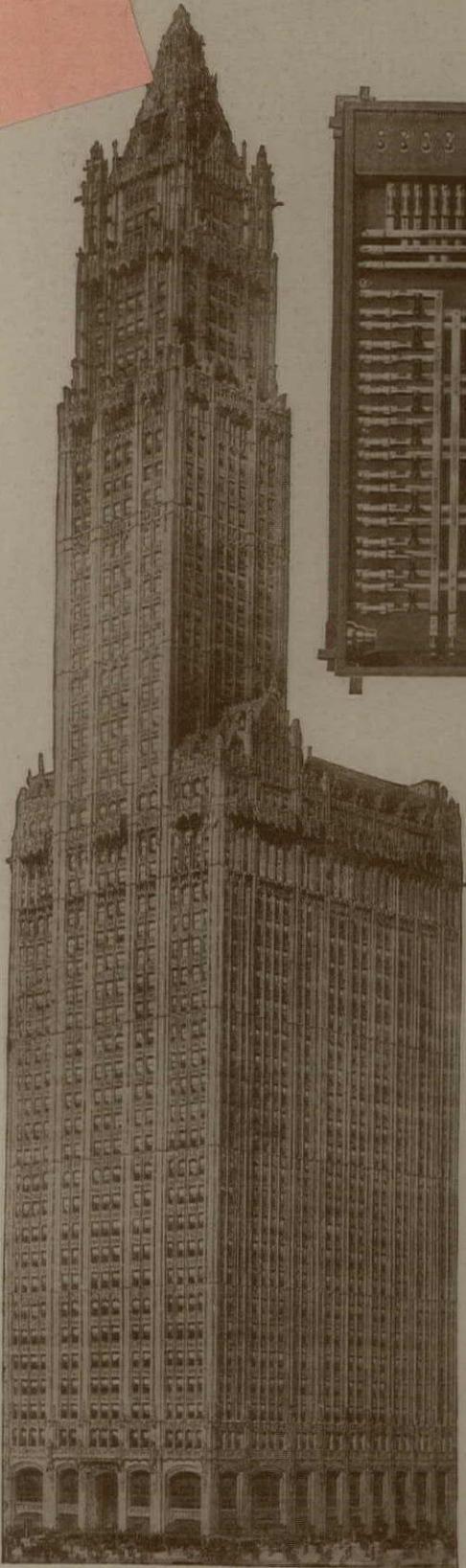
Nearly 200 G. E. Panel Boards are to be used to control the lighting and power circuits of the highest building in the world.

The fact that these boards were constructed to meet the strictest specifications and were selected only after the keenest competition, is indicative of the quality of G. E. Panel Boards.

We manufacture many forms of *Standard Panel Boards* which are furnished in thousands of combinations.

Whether the conditions are standard or special the General Electric Company is prepared to meet all the requirements of architects, engineers and contractors.

Let us co-operate with you in your Panel Board plans.



WOOLWORTH BUILDING, NEW YORK
 Cass Gilbert, Architect C. O. Mallouk, C. E. Knox, Engrs.
 Thompson-Starrett, General Contractors

General Electric Company

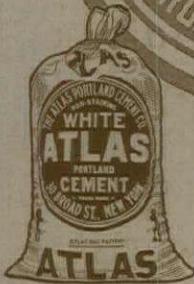
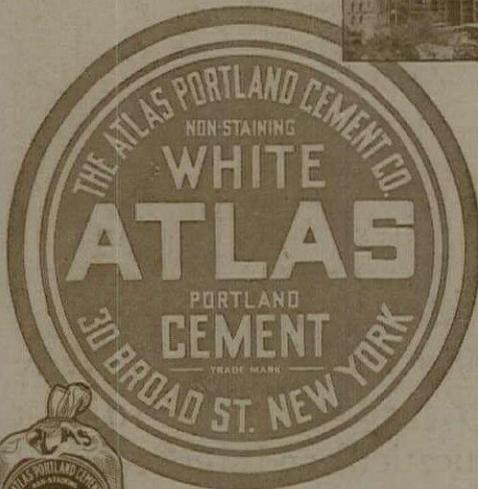
Principal Office:

Schenectady, N. Y.

MUNICIPAL
OFFICE BUILDING
City of New York

McKim, Meade & White
Architects

Thompson-Starrett Co.
Builders



"The standard by which all other makes are measured"

ATLAS-WHITE

is being used for laying and backing the granite in the construction of this building, because it is a true Portland Cement, white in color and absolutely

Non-Staining

Atlas-White has no equal for laying, backing and pointing, granite, limestone, marble or any fine textured stone.

If You Are Looking for Strength as well as Color Use Atlas White

THE ATLAS PORTLAND CEMENT CO.
30 Broad Street, New York
Morris Bldg., Phila., Pa. Corn Exch. Bank Bldg., Chgo., Ill.
MANUFACTURERS OF ATLAS PORTLAND CEMENT



JENKINS BROS. VALVES

The great advantage gained in installing the **genuine Jenkins Bros. Valves** is reliable service. Not only do the valves look well, but they are well constructed, and when in service they hold tight.

Always specify **Jenkins Bros.** This little precaution will mean added efficiency to any steam plant, whether used for power or heating purposes.

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

ROBERT W. HUNT JNO. J. CONE JAS. C. HALLSTED D. W. McNAUGHER

ROBERT W. HUNT & CO., Engineers BUREAU OF INSPECTION TESTS AND CONSULTATION

Structural Steel, Cement, Reinforcing Steel,
Chemical and Physical Laboratories

New York Chicago Pittsburgh London St. Louis San Francisco
Montreal Toronto Seattle Mexico City



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

561 W. Monroe St. Chicago 105 West 40th St. New York

Samson Spot Cord



Reg. U. S. Pat. Off.



Reg. U. S. Pat. Off.

is the best that we can make after forty years' effort. It is guaranteed by the Samson Cordage Works to be free from imperfections of braid or finish, and it will last longer than any other device for hanging windows. Quality is proved by experience.

Our trade-mark on the label is Samson and the Lion *IN ANY COLOR*. The Spots *IN ANY COLOR* are our trade-mark on the cord used by us for eighteen years to show, after the label is removed, who guarantees the quality of the cord. You recognize either of these marks by the design, not the color.

Don't be misled by imitations.

Samson Cordage Works
Boston, Mass.

MAR 20 '18