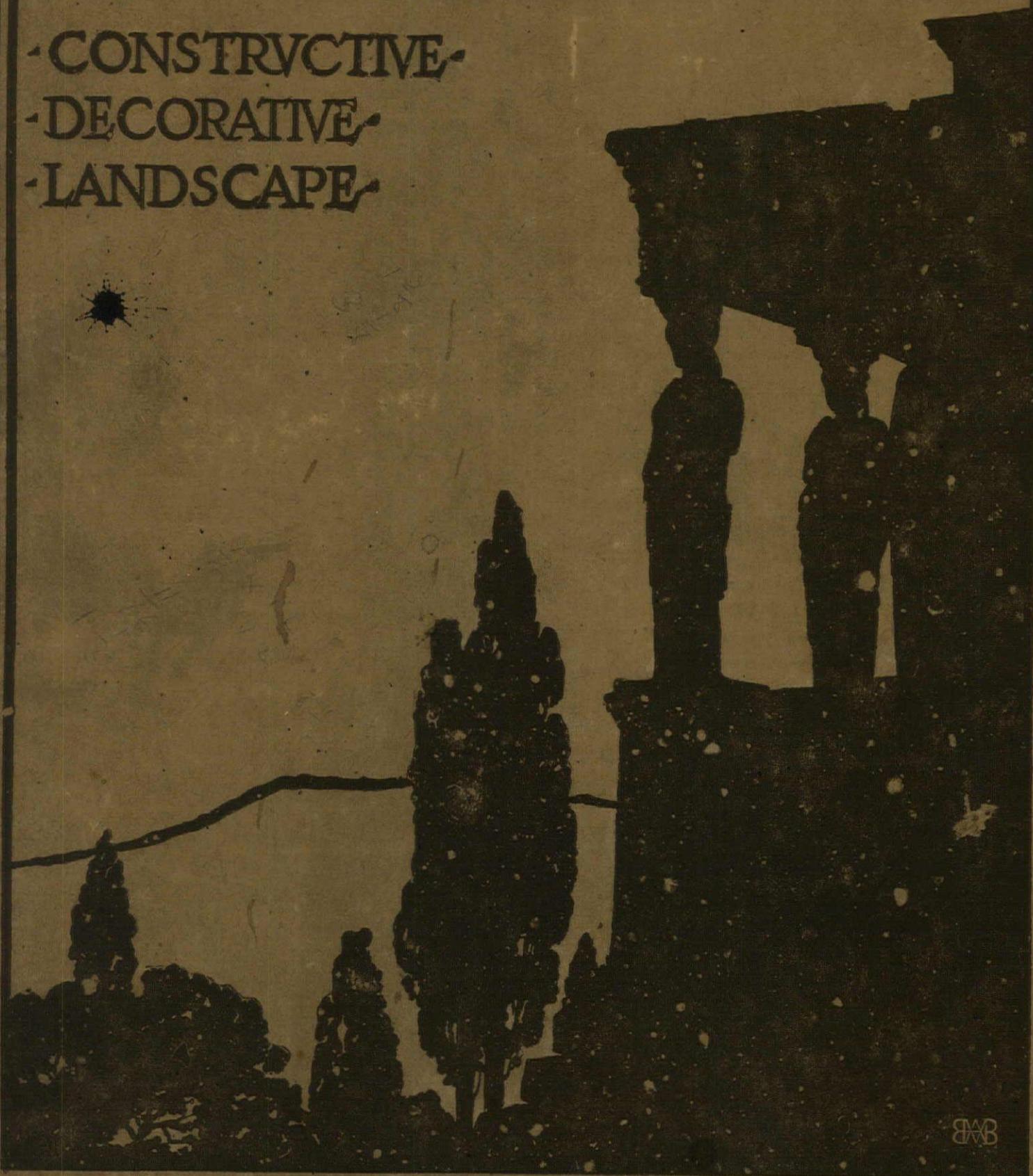


FIFTY CENTS THE NUMBER

FIVE DOLLARS THE YEAR

ARCHITECTURE

CONSTRUCTIVE
DECORATIVE
LANDSCAPE



BBB

VOLUME XIII

JUNE 1906

NUMBER 6

Highest
Grade

PORTLAND **DRAGON** CEMENT



Always
Uniform

Seventeen Years
Among the first of American
Portland Brands

LAWRENCE CEMENT COMPANY

Sales Offices: 1 Broadway, N.Y.
Philadelphia: 15th & Market Sts.

GORTON VAPOR VACUUM SYSTEM OF HEATING

HEAT CAN BE GOVERNED IN ANY ROOM
BY GRADUATING OPENING OF THE RADI-
ATOR VALVE, WHICH MEANS A GREAT
SAVING IN FUEL.

GORTON & LIDGERWOOD COMPANY
96 LIBERTY STREET, NEW YORK



Otis Elevators

Have been
standard of
the world
for more
than fifty
years.

From the simplest hoist by hand,
to the most comprehensive ele-
vator equipment, embracing in
one instance over forty elevators,
we are prepared to successfully
cope with any elevator problem.

Correspondence Solicited

Otis Elevator Company
New York Office, 17 Battery Place

THE HENRY HUBER COMPANY

ESTABLISHED 1857

Manufacturers of

Good Plumbing Fixtures

SHOWROOMS:

244 FIFTH AVENUE, NEW YORK

FACTORY:

461-481 E. 136TH STREET, NEW YORK

Highest Grade

Imitation Marbles,

Made only by the

Mycenian Marble Co.,

524-526 West 34th St.,

New York.

All the Half-Tone and Line Plates in
"ARCHITECTURE" are made by

The **GILL** Engraving
Company

140 Fifth Avenue

NEW YORK



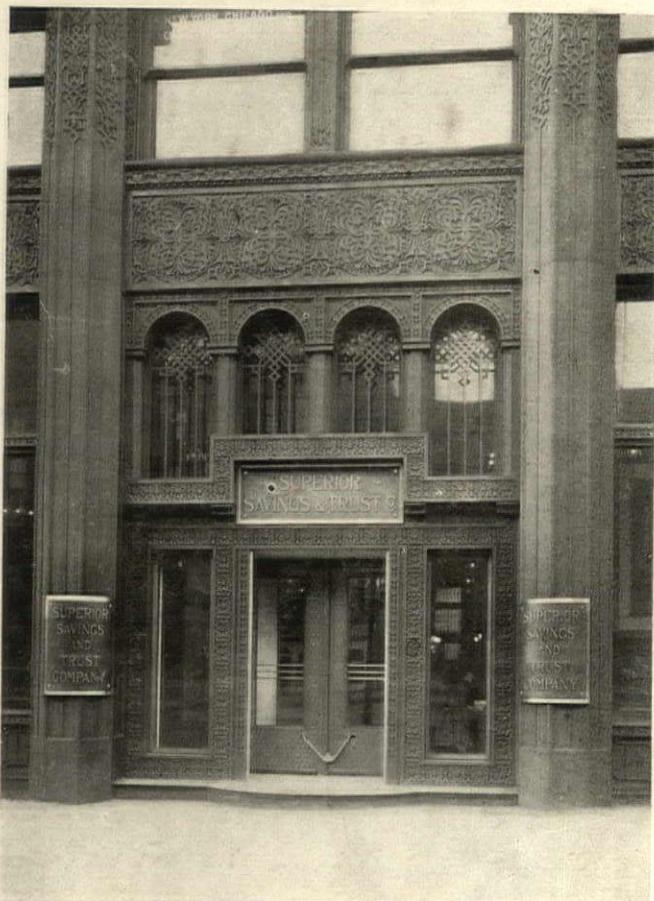
**ELECTRICAL Construction and
Engineering**

Telephone 3060 Mad. Sq.

DENNIS G. BRUSSEL,

15 W. 29th Street, New York.

• ELECTRICAL WIRING AND APPARATUS
INSTALLED BY THE
• BRUSSEL METHOD SECURES TO THE OWNER TESTED
MATERIAL, THE BEST WORKMANSHIP, AND A GUARANTEE AGAINST
ANY DEFECTS. • • • • •



THE ACCOMPANYING ILLUSTRATION SHOWS ENTRANCE TO THE SUPERIOR SAVINGS AND TRUST CO., ROCKEFELLER BUILDING, CLEVELAND.

KNOX & ELLIOTT, ARCHITECTS.

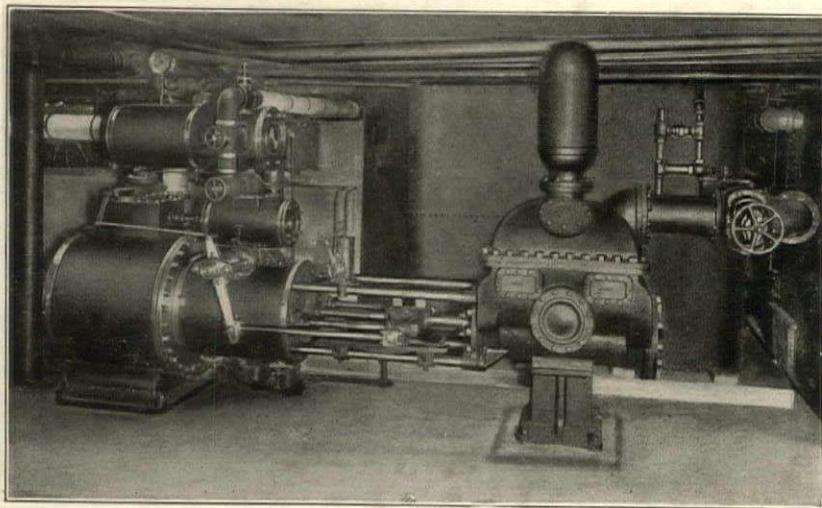
The
Winslow Bros. Company

Ornamental
Iron and Bronze

New York

Chicago

DAVIDSON HYDRAULIC ELEVATOR PUMPS



COMPOUND SINGLE CYLINDER DAVIDSON ELEVATOR PUMP (Patented)

The **best pump** for hydraulic elevator service, the most reliable, economical, and efficient pump under working conditions, is

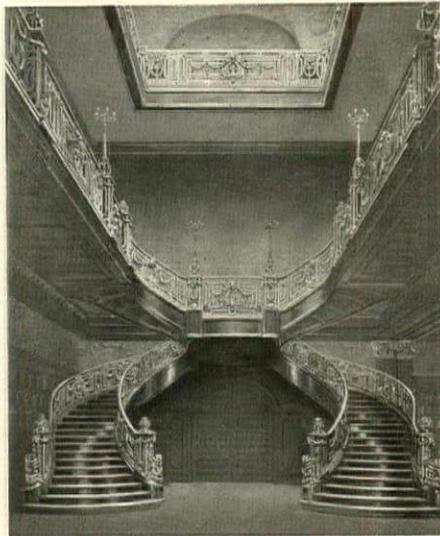
THE DAVIDSON PUMP.

I invite investigation, and would be pleased to give detailed information on request.

MAJESTIC HOTEL, New York
VICTORIA HOTEL, New York
TRIBUNE BLDG., New York
OLIVER BUILDING, Boston
MASONIC TEMPLE, Boston
BROWN, DURRELL & CO., Boston

STATE, WAR, and NAVY DEPT. BLDG., Washington
TITLE GUARANTEE & TRUST BLDG., New York
CALLENDER, MCAUSLEN & TROOP, Providence
GEOLOGICAL SURVEY BLDG., Washington
INDUSTRIAL TRUST BLDG., Providence
RHODE ISLAND HOSPITAL, Providence
NEW U. S. EXPRESS BLDG., New York

M. T. DAVIDSON,
43-53 Keap Street, Brooklyn, N. Y.
141 Broadway, . . . New York.
30 Oliver Street, . . . Boston



POLISHED HAND WROUGHT STEEL RAIL.
RESIDENCE OF GEORGE W. VANDERBILT, ESQ., NEW YORK CITY.
Hunt & Hunt, Architects.

—MADE BY—

Wm. H. Jackson Company

Artisans in All Metals

Union Square North, 29 East 17th Street
NEW YORK CITY

Also 163 Michigan Avenue
CHICAGO

Foundries and Shops, 229-239 W. 28th St.



BANK RAILING, DOLLAR SAVINGS BANK, PITTSBURGH.
Jas. T. Steele, Architect.

Ornamental Iron and Bronze

The W. S. Tyler Company

Cleveland

New York

Pittsburg



Copyright 1904, by Jno. Williams

“American Art in Bronze and Iron”

A MAGAZINE DEVOTED TO ORNAMENTAL METAL WORK

EXECUTED BY

Jno. Williams Inc.

Office, 556 West 27th St.,
NEW YORK

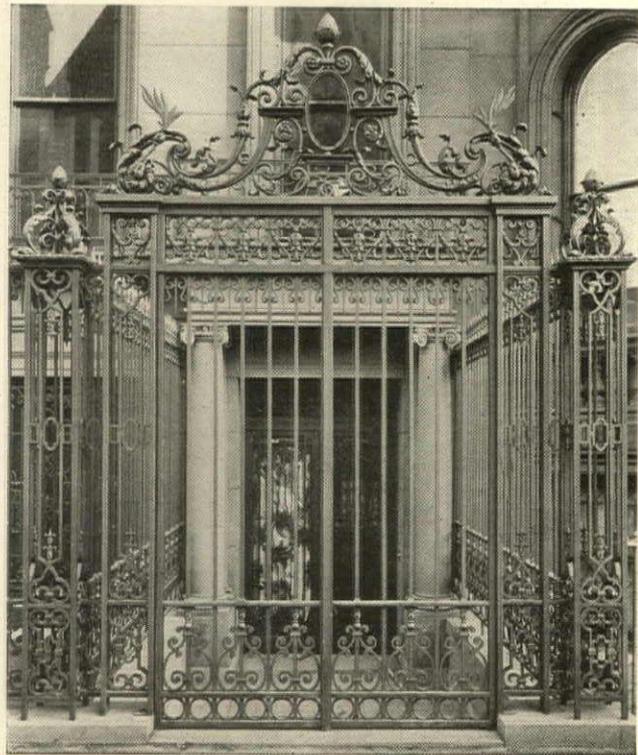
No. 4 is now ready. This number contains 24 large half-tone illustrations of beautiful entrance halls, showing the BRONZE AND IRON STAIR RAILINGS executed by this Company; also 26 smaller illustrations of details of stair railings, etc.

This book will be sent free on request from principals in Architects', Sculptors', and Decorators' Ateliers. (Use own letter-heads.)

THE GORHAM CO
NEW YORK

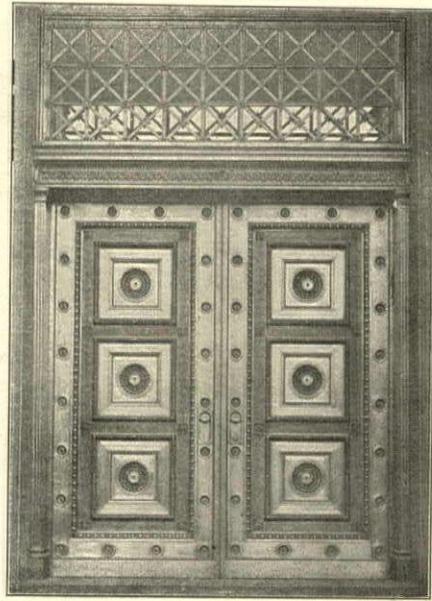
ARCHITECTURAL AND
SCULPTURAL
BRONZE WORKS
IN ALL
WROUGHT AND CAST
FORMS

LAMP STANDARD
CASS GILBERT, ARCHITECT
GORHAM CO
FOUNDERS



FRONT RAIL AND ENTRANCE GATE, 597 5TH AVE. MRS. R. P. FLOWER, OWNER.
Hoppin, Koen & Huntington, Architects.

HARRIS H. URIS
Ornamental and Structural Iron Works
525-535 W. 26th St., - New York



SOLID BRONZE DOORS AND TRANSOM GRILLE,
NEW GOVERNMENT PRINTING OFFICE,
Washington, D. C.

THE SNEAD & CO. IRON WORKS

Foot of Pine Street, Jersey City, N. J.



ETHICAL CULTURE SOCIETY BUILDING, NEW YORK.
Robt. D. Kohn and Carrere & Hastings, Architects
C. B. Meyers, Consulting Engineer.

SUPPLIED WITH TWO

QUIMBY HOUSE-SERVICE PUMPS

WILLIAM E. QUIMBY (Inc.)

44-60 East Twenty-third St. NEW YORK



RESIDENCE, CHAS. M. SCHWAB, ESQ., RIVERSIDE DRIVE, NEW YORK
Maurice Hébert, Architect.

The Old English Roofing Tiles for the above residence of
Chas. M. Schwab, Esq., were imported and furnished by

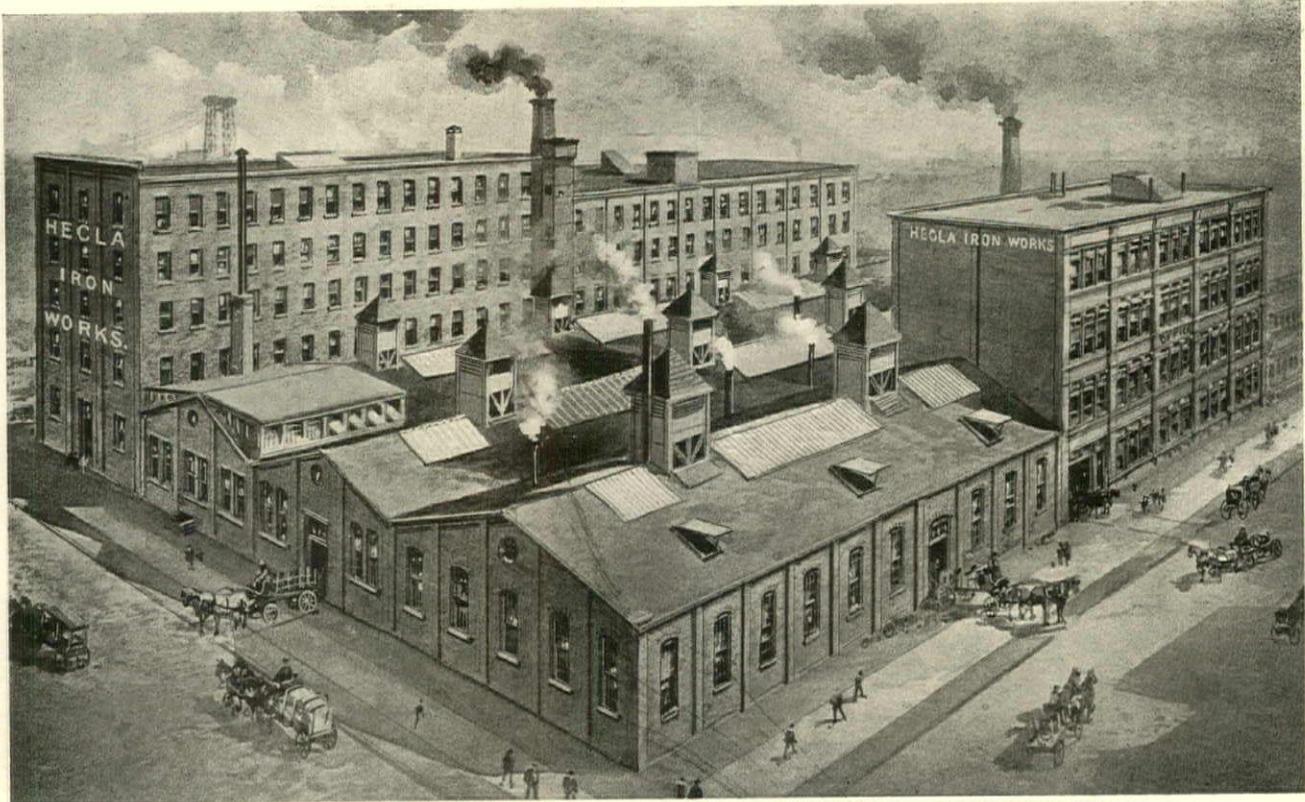
PFOTENHAUER & NESBIT

ST. JAMES BLDG., 1133 BROADWAY, COR.
26th ST., NEW YORK. 'Phone 151 Madison Square.

IMPERVIOUS FRONT BRICKS

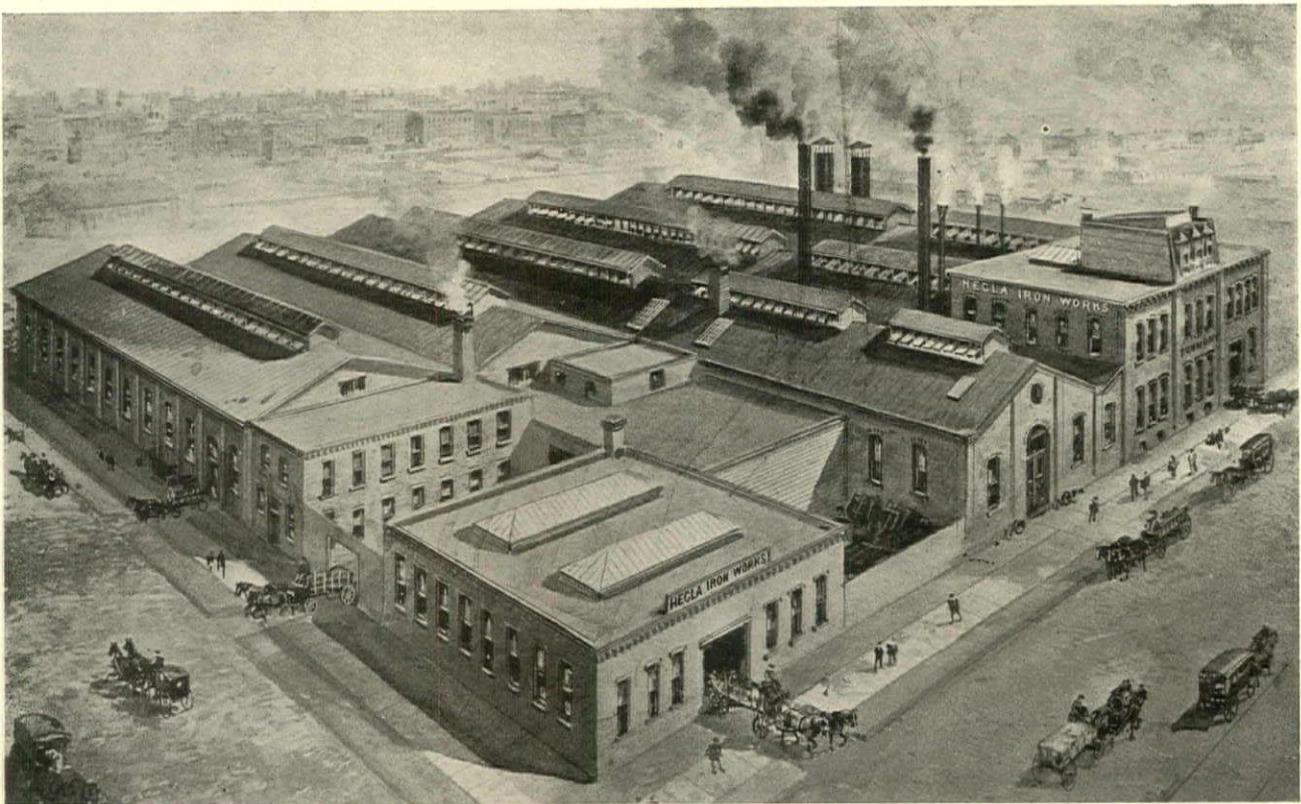
Enameled Bricks and Vitrified Roofing Tiles and Pavers
Sole Agents

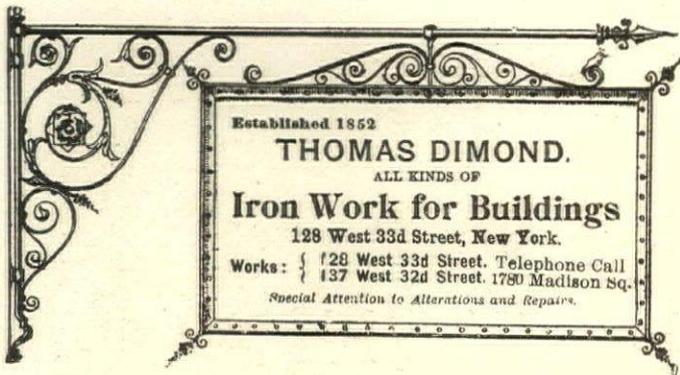
For the Genuine New England "HARVARD" Bricks



THE HECLA IRON WORKS

The Hecla Iron Works is recognized as the first and foremost concern in the manufacture of Architectural Metal Work in the world. Its plant is the largest and most complete, and the quality of the work is considered the standard, the world over. N. 10th, N. 11th, N. 12th and Berry Sts. and Wythe Ave., Brooklyn, N. Y.





Established 1852
THOMAS DIMOND.
 ALL KINDS OF
Iron Work for Buildings
 128 West 33d Street, New York.
 Works: { 128 West 33d Street. Telephone Call
 437 West 32d Street. 1750 Madison Sq.
Special Attention to Alterations and Repairs.



HIGGINS'

DRAWING INKS
 ETERNAL WRITING INK
 ENGROSSING INK
 TAURINE MUCILAGE
 PHOTO MOUNTER
 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.

AT DEALERS GENERALLY.

CHAS. M. HIGGINS & CO., Mfrs.

Branches: Chicago, London. 271 Ninth St., BROOKLYN, N. Y.



French Rim Lock No. 2845

The hardware of the French periods is particularly ornamental and effective. Our patterns embrace many designs belonging to these periods—which we have adapted to American trim.

BAYER-GARDNER-HIMES COMPANY

MAKERS OF

FINE HARDWARE AND ARTISTIC METAL WORK

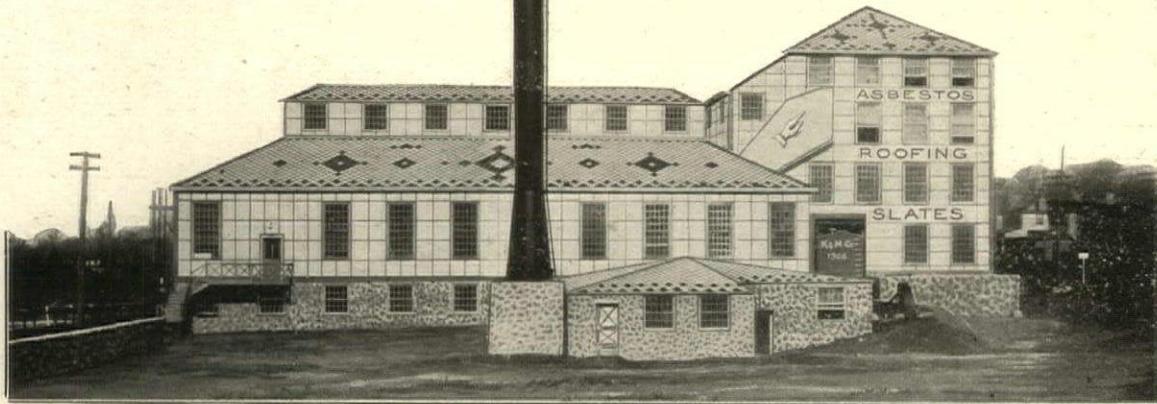
Office and Showrooms: 159 West 29th Street, NEW YORK.

Factory: 157-163 West 29th Street, NEW YORK.

THE NEW FIREPROOF MATERIAL FOR USE IN THE BUILDING TRADES

Asbestos
"CENTURY"
Shingles
 or
Roofing
Slates

Asbestos
"CENTURY"
Sheathing
 Fireproof
 Waterproof
 Indestructible



Address all correspondence to
KEASBEY & MATTISON COMPANY, Ambler, Pa.



HALL, RESIDENCE, W. L. STOWE, ESQ., ROSLYN, L. I.
John Russell Pope, Architect.

This Interior was executed in Keene Cement by
H. W. MILLER, Inc.

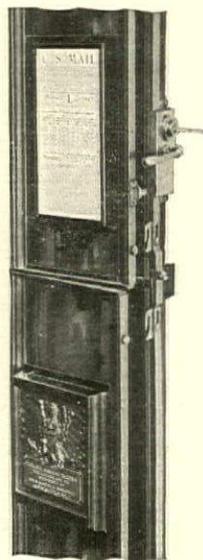
Plain and Decorative Plastering Contractors,
501 EAST 22d STREET, - NEW YORK CITY.

THE
CUTLER MAILING SYSTEM

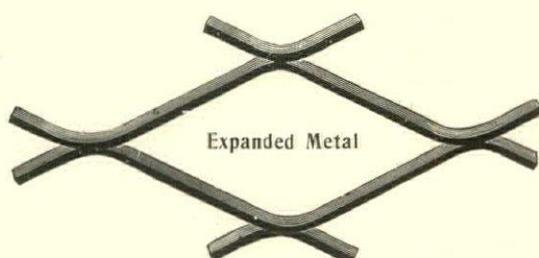
IS EXPLICITLY AUTHORIZED BY THE POST OFFICE DEPARTMENT UNDER PROVISION OF A SPECIAL ACT OF CONGRESS AND SHOULD BE SPECIFIED BY NAME WHERE THE STANDARD AUTHORIZED MAIL CHUTE EQUIPMENT IS DESIRED.

DESIGNATE "MODEL C" IF THE VERY LATEST AND BEST FORM AS ILLUSTRATED HEREWITH IS REQUIRED. INTERIOR UNDER GOVERNMENT LOCK BUT INSTANTLY ACCESSIBLE TO AUTHORIZED PERSONS.

INSTALLED IN CONNECTION WITH THE U. S. FREE COLLECTION SERVICE UNDER THE CUTLER SERIES OF MAIL CHUTE PATENTS ONLY BY THE SOLE MAKERS,
THE CUTLER MANUFACTURING CO.
CUTLER BUILDINGS, ROCHESTER, N. Y.



MODEL C.



Expanded Metal

Efficient and economical
as a binder for concrete.

THE GENERAL FIREPROOFING CO.

YOUNGSTOWN, OHIO,

Make all grades

and

are the sole manufacturers

of

Herringbone Expanded Steel Lath.

One who has used it knows why it has prestige.

Samples ?

Postal !

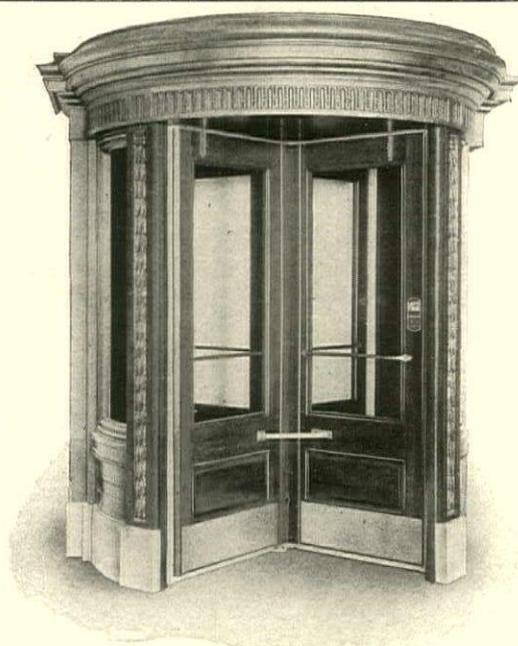
OFFICES :

NEW YORK

CHICAGO

WASHINGTON

BOSTON



Van Kannel Revolving Door Installed in the U. S. P. O. & C. H., Waterloo, Ia.
J. Knox Taylor, Architect.

IN PUBLIC BUILDINGS.

The Revolving Door affords comfort and safeguards health by the exclusion of cold, drafts, dust, etc. It accomplishes economy in maintenance by reducing the expense of heating—often 25% or more.

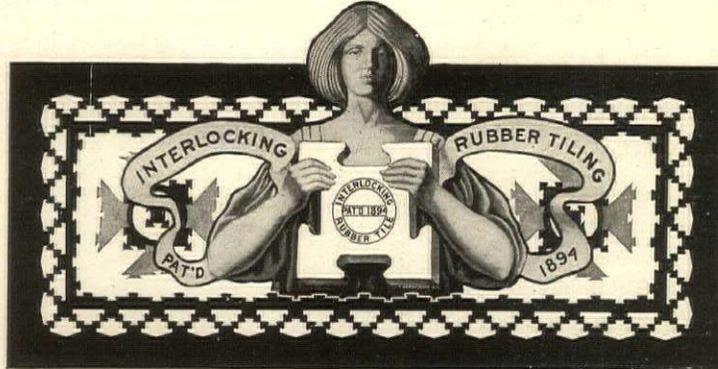
These are the principal reasons that have caused the adoption of Revolving Doors in Government, State and Municipal Buildings, throughout the world.

The Time to Consider Revolving Doors is Before the Plans are Made.

Van Kannel Revolving Door Co.
524-534 East 134th Street, New York City.

INTERLOCKING RUBBER TILING

MADE IN ONE QUALITY ONLY—THE BEST.



Noiseless, Non-Slippery, Sanitary and Extraordinarily Durable

The finest floor that can be laid in business offices, banking-rooms, court-rooms, vestibules, halls, billiard-rooms, cafes, libraries, churches, hospitals and hotels. It is specially adapted for steamships, yachts, etc., standing, without cracking or separating, the straining and racking of the ship. Each Tile is interchangeable and distinct, but shaped so as to lock firmly into the surrounding Tiles. The interlocking feature produces a solid rubber floor, unlimited in size or shape with all the durability of the hard tile, without its liability to damage.

Manufactured under our patent and sold only by us and our authorized agents. BEWARE OF INFRINGERS. Estimates, designs and samples furnished on application. Send for special catalogue.

Patented and Manufactured Solely by

NEW YORK BELTING AND PACKING CO., Ltd.
91-93 CHAMBERS STREET, NEW YORK

BRANCHES:

PHILADELPHIA: 116-120 N. Eighth Street.
CHICAGO: 150 Lake Street.
OAKLAND, CALIF.: 918 Broadway.

INDIANAPOLIS, IND: 229 South Meridian Street.
ST. LOUIS: 218 Chestnut Street.
BALTIMORE: 114 W. Balto. Street.

BOSTON: 232 Summer Street.
BUFFALO: 600 Prudential Bldg.
PITTSBURG: 528 Park Building.

LONDON, ENGLAND: Arthur L. Gibson & Co. 19 to 21 Tower Street, Upper St. Martin's Lane, W. C.

Sprague Electric Company

Manufacturers of

INTERIOR CONDUITS

and

**FLEXIBLE STEEL ARMORED
CONDUCTORS**



Beginning with the earliest make of tubing for carrying wires for electric current, we have made a thorough study of the conditions and requirements that have arisen as the interior wiring problems have developed, and our products, to-day, as formerly, are far superior to anything produced by our imitators and competitors.

Our products, which include a full line of outlet boxes, fittings, etc., are specified by the leading architects throughout the country.

Write for descriptive bulletin No. 4219.

General Offices: 527 West 34th Street,
NEW YORK CITY.

AUTOMATIC CONVEYORS SPECIAL CARRIER SYSTEMS PNEUMATIC TUBE SERVICE

Instantaneous transmission of orders, blue prints, etc., over long distances.

Auto-selective mechanical messengers for offices, telegraph and telephone companies, etc.

Inter-communicating mechanical conveyors for tools, cores, supplies, manufactured parts, etc.

Small elevators.

We engage to transport anything anywhere about works or within buildings.

LAMSON CONSOLIDATED S. S. CO.
General Offices: :: 22 Arch Street, Boston



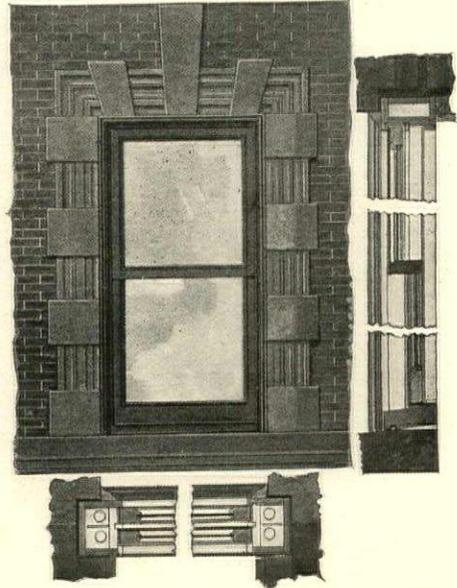
THE ANSONIA, NEW YORK. W. E. D. Stokes, Architect.

The ROEBLING SYSTEM OF FIRE-PROOFING

Highest efficiency in fire and water tests of the New York Building Department and now the recognized STANDARD OF FIRE-PROOF CONSTRUCTION.

Send for Catalogue

The Roebling Construction Company
FULLER BLDG., Broadway & 23rd St., : : : NEW YORK



WINDOW FRAMES AND SASH, WITH PLATE OR WIRE GLASS, SHEET BRONZE OR COPPER COVERED.

John W. Rapp

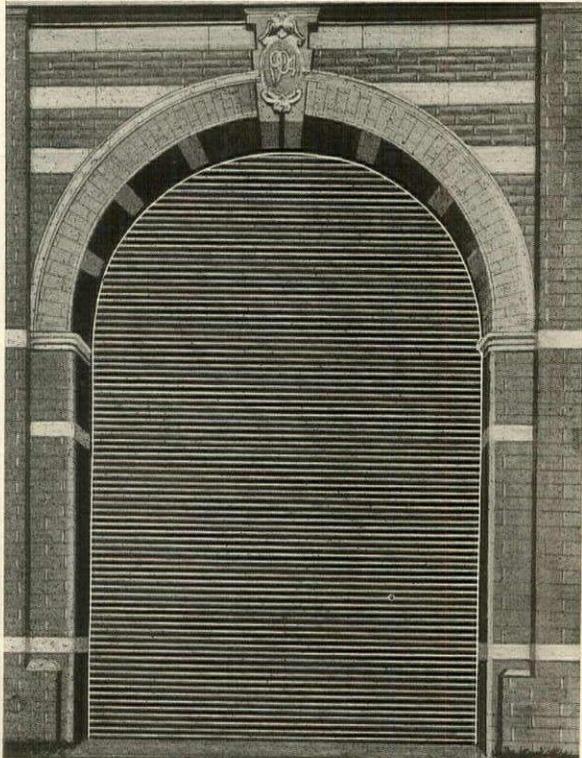
METAL COVERED

DOORS, WINDOWS and SHUTTERS

1 Madison Avenue, NEW YORK

Factory: College Point, L. I.

Steel Rolling Doors and Shutters

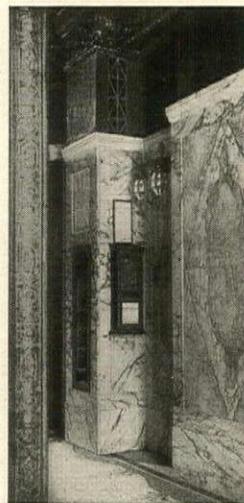


The KINNEAR MANUFACTURING CO.
COLUMBUS, OHIO, U. S. A.

BOSTON: 85 Water Street. PHILADELPHIA: 1011 Chestnut Street. CHICAGO: 112 Clark Street.

Automatic Mail Delivery Co.

✧ Times Building ✧
✧ NEW YORK ✧



View of Entrance Hall of the Courtenay—Central Park West, New York City, showing Mail Chute, Collection Box and Automatic Mail Shaft combined in space 18x15 inches.

Patentees and
Makers of

Automatic

Mail

Delivery

Apparatus

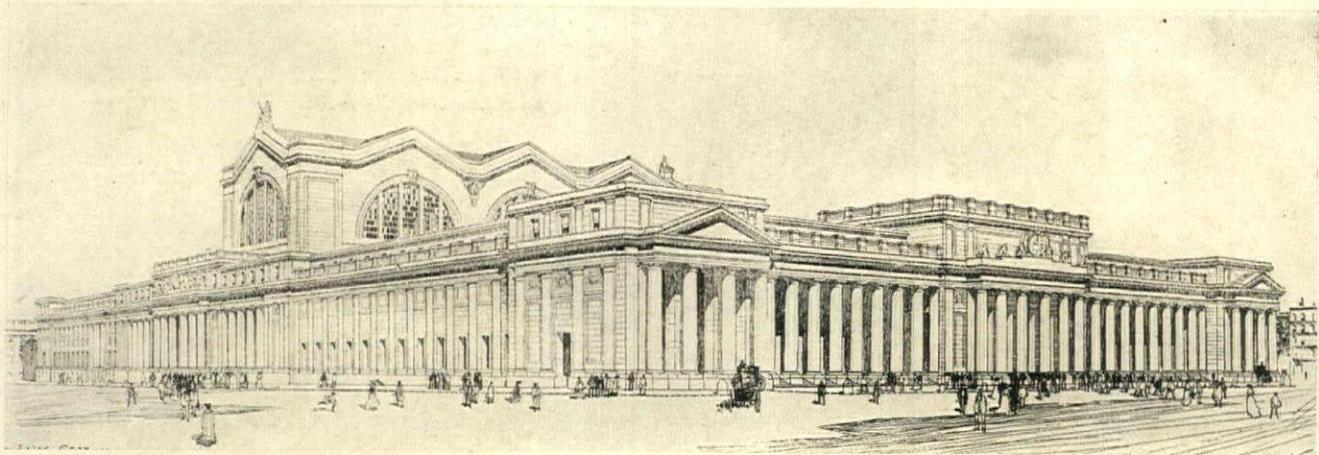
AND THE

Perfect

Mail

Chute

UNDER AUTHORIZATION OF
United States Post Office
Department ✧ ✧ ✧ ✧



PENNSYLVANIA R. R. STATION, NEW YORK.

McKim, Mead & White, Architects.

HYDREX

The Waterproofing Felt

Is being used to waterproof the foundation retaining walls of this vast station—the greatest in the world.

Hydrex Felt is also being used for Pennsylvania Railroad Tunnels, New York, *after, in severe tests, excelling all other felts.*

The Felt is made especially for underground waterproofing conditions.

It is used in important waterproofing work where toughness, elasticity, and strength are absolute essentials.

Because it is, in itself, absolutely IMPERVIOUS TO WATER, it is therefore unequalled for insulating—lining and sheathing—using one sheet, under stucco, clapboards, slate, floors, tile, shingles, etc.

HYDREX FELT & ENGINEERING CO.

SPECIALISTS AND EXPERTS IN WATERPROOFING PROBLEMS

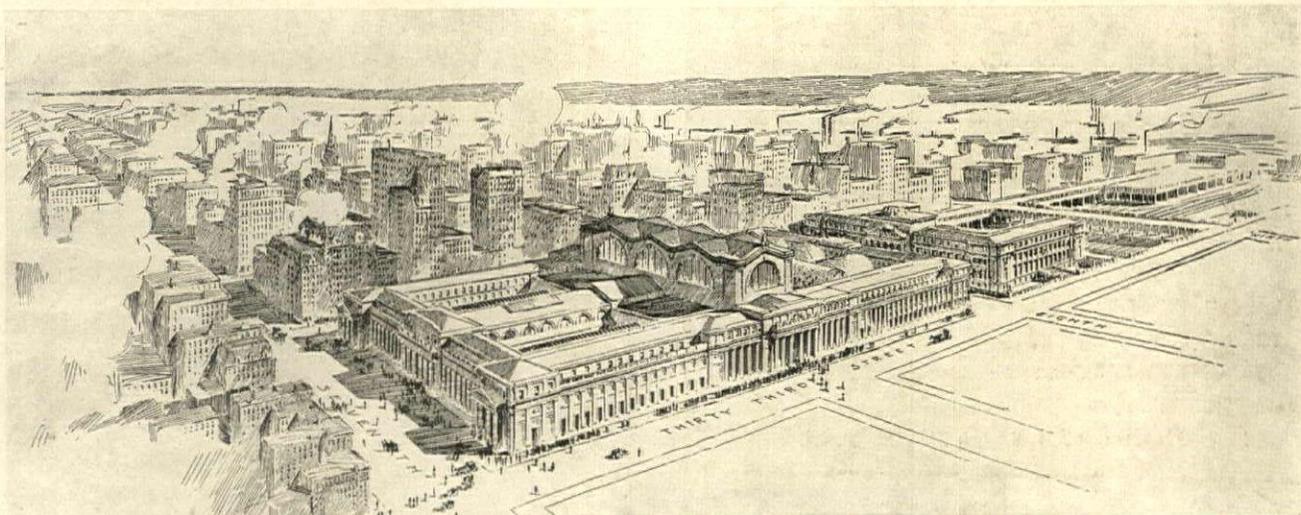
120 Liberty Street

NEW YORK

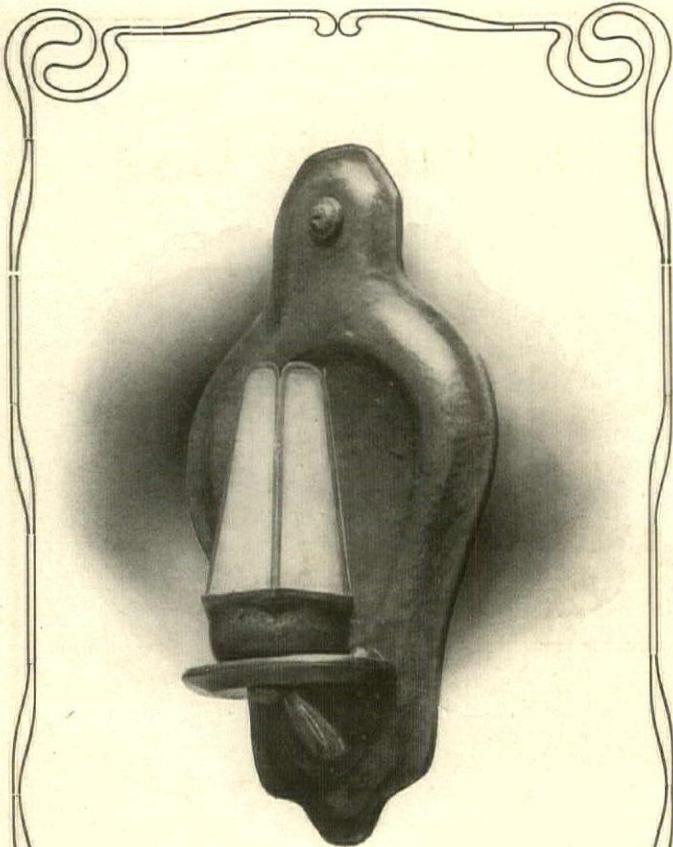
CHICAGO

EAST WALPOLE, MASS.

WASHINGTON



BIRD'S-EYE VIEW, SEVENTH TO TENTH AVE., 31ST TO 33D ST., NEW YORK. AREA, EIGHT ACRES.



IN many of the early mansions may still be seen the quaint little font of oil, resting on a metal shelf against the wall, with its indented copper reflector—made bright with many rubbings of rotten-stone—multiplying the flickering flame until the room or hallway is at least comfortably lighted.

In many homes of the present time a similar effect is gained by the use of a lighting instrument such as is reproduced above, but with the more convenient and efficient means of illumination—electricity.

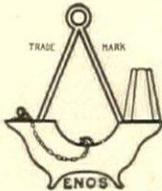


The Enos Company

MAKERS OF LIGHTING FIXTURES

**Five West Thirty-ninth Street
New York.**

BALTIMORE: 519 N. Charles St.
TORONTO: 94 King St., West
WASHINGTON: 818 Connecticut Ave.
MONTREAL: Bank of Toronto Bdg.
SAN FRANCISCO: 1701 Gough St.



"The services of an engineer are not an expense, but an economy."—*Stevenson.*

Engineering of Light

is the latest method by which lighting systems are laid out, designed to give exactly the right illumination for each particular requirement.

Drawings and specifications show just what illumination will be produced, the auxiliaries required, and what the cost of maintenance will be.

Complete and careful surveys of lighting installations are made, and itemized reports show where and how the illumination can be improved and running cost reduced.

Correspondence given prompt attention.

Arthur A. Ernst

SPECIALTY

Engineering of Light

25 Broad Street, New York

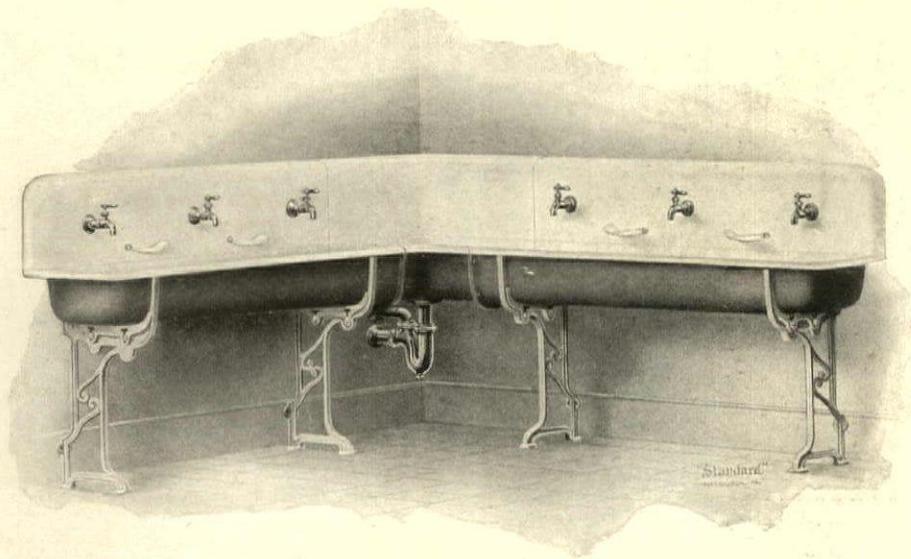


SIXTY WALL STREET.

Clinton & Russell, Architects.

PAGODA REFLECTORS
used throughout this building.
HOLOPHANE GLASS CO.
Sales Department:
227 FULTON STREET, NEW YORK

"Standard" Fixtures for Public Use



"Standard" Porcelain Enameled Wash Sink on Adjustable Iron Frames, with Roll Rim Back, Nickel-plated Waste Plug and Coupling, Soap Cups, Nickel-plated Fuller Adjustable Flange, Bibbs and Vented P Trap. All nickeled brass fittings used in "Standard" equipment are stamped "Standard"

The adaptability of "Standard" Fixtures for hard service makes them particularly desirable in buildings to which the public have access. In Schools, Hospitals, Factories and all Public Institutions "Standard" goods are unrivalled for durability, sanitation and ability to withstand hard usage. "Standard" fixtures are simple of construction, absolutely sanitary, and require only a minimum amount of care to keep clean.

Write for our catalogue, "Modern Sanitary Appliances". It should be on the desk of every Architect, Sanitary Plumber and Master Plumber.

Standard Sanitary Mfg. Co., Pittsburg, U. S. A.



BRONZE TELEPHONE BOOTH, HOTEL BELMONT, NEW YORK.

Warren & Wetmore, Architects.

J. F. BLANCHARD CO.
 MANUFACTURERS OF
METAL - COVERED - WOODWORK
 Offices: FULLER BLDG., NEW YORK Factory: LONG ISLAND CITY
HIGH GRADE WORK A SPECIALTY

SOME RECENT CONTRACTS

BUILDING	ARCHITECT	CONTRACTOR
BELMONT HOTEL	Warren & Wetmore	Marc Eidlitz & Son
PLAZA HOTEL	H. J. Hardenbergh	Geo. A. Fuller Co.
HARMONIE CLUB	McKim, Mead & White	Tide-Water Building Co.
ALTMAN BUILDING	Trowbridge & Livingston	Jno. L. Hamilton & Sons
BALTIMORE TEL. BLDG.	Eidlitz & McKenzie	D. C. Weeks & Son
COCKROFT BUILDING	Jay H. Morgan	Geo. A. Fuller Co.
BALCH PRICE BUILDING	Gillespie & Carrel	S. M. Randall & Son
HAMILTON FISH BUILDING	Robertson & Potter	James A. Stewart & Co.
HUYLER BUILDING	Schickel & Ditmar	D. C. Weeks & Son



COPPER COVERED ELEVATOR AND STAIR ENCLOSURE, HOTEL BELMONT, NEW YORK.

Warren & Wetmore, Architects.

Specify The Closet of Health

The sanitary and mechanical perfection of the SY-CLO Closet means a permanent source of professional prestige to the architect who specifies it. Every architect realizes that he can best serve his own interests by planning for the sanitary safety of his clients.

The SY-CLO Closet embodies the very perfection of household sanitation and freedom from the noxious odors and poisonous gases that arise from the ordinary closets.

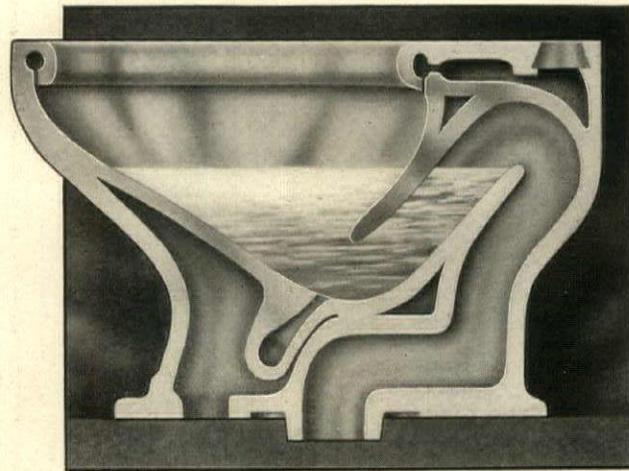
The very material of which the

SY-CLO
TRADE MARK

Closet is made is sanitary. Being made of solid white china, hand moulded in a single piece without seam or crevice, impurity can neither adhere nor be absorbed. Unlike the porcelain enameled iron closet, rust, corrosion or under surface discoloration is impossible.

The SY-CLO Closet has a double cleansing action—a combination of flush from above, and a powerful syphonic action from below which instantly and entirely empties the bowl of all its contents, instead of merely diluting as does the ordinary wash out variety of closets.

The word SY-CLO stamped on a closet signifies protection to architect and client alike; that the



SY-CLO Closet cut in half, showing the interior construction. Note the deep water seal, making the escape of gas impossible.

water seal is impenetrable, making the escape of sewer gas into the home absolutely impossible; that it is constructed of the best material, with the aid of the best engineering skill, under the direction of the Potteries Selling Co., and that it has the endorsement of the following manufacturers, who have agreed that "SY-CLO" shall represent the highest standard of closet construction.

The Acme Sanitary Pottery Co., The Bellmark Pottery Co., The Brian Pottery Co., Fidelity Pottery Co., Keystone Pottery Co., Thos. Maddock's Sons Co., Jno. Maddock & Sons, The Sanitary Earth. Specialty Co., The Trenton Potteries Co., The Willets Manufacturing Co., Trenton, N. J.; Camden Pottery Co., Camden, N. J.; The Great Western Pottery Co., Kokomo, Ind. and Tiffin, O.; Ironsides Pottery Co., Bordentown, N. J.; The Standard Sanitary Pottery Co., Elizabeth, N. J.; Universal Sanitary Mfg. Co., New Castle, Pa.; The Wheeling Potteries Co., Riverside Department, Wheeling, W. Va.; The National Pottery Co., Evansville, Ind.; The Columbia Pottery and Manufacturing Co., Kokomo, Ind.

By specifying the SY-CLO Closet, the unpleasant results of the inferior substitute, annoying alike to architect and client, are entirely avoided.

SY-CLO Closets are made in all sizes, and to suit every conceivable plan. Lavatories of every size and design made of the same material.

For full particulars and descriptive literature, address,



POTTERIES SELLING CO., Trenton, N. J.

ROYAL STEAM HEATERS and ROYAL HOT WATER HEATERS have the Feather Edge—the latest and most scientific patented advance in cast iron boiler construction. New York Radiators—made in every size and style—are the soundest and best on the market.

These are reasons for the enormous increase in the use of ROYAL HEATERS and NEW YORK RADIATORS.

HART & CROUSE Co.

Home Office : UTICA, N. Y.

BRANCHES :

- CHICAGO, ILL., 79 Lake St.
- NEW YORK, N. Y., 235 Water Street.
- COLUMBUS, O., Poplar and Henry Streets.
- DALLAS, TEXAS, 659 Elm Street.



A Prompt Decision

on the part of an architect to specify a "THATCHER"

Furnace or Boiler insures his client getting the best made without any doubt.

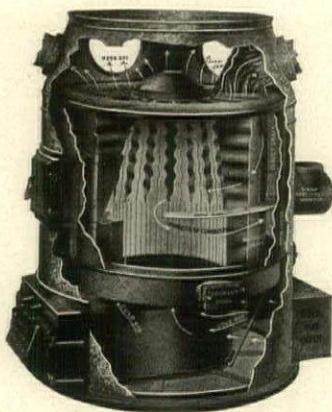
☞ No other heaters have the fuel-saving features of the "THATCHER."

☞ 56 years in the market proves their merit.

Thatcher Furnace Company

110 to 116 Beekman Street, NEW YORK

"MADE IN NEWARK."



THE KELSEY WARM AIR GENERATOR

SYSTEM OF HEATING AND VENTILATING IS A FRESH AIR SYSTEM

For HOMES, CHURCHES, SCHOOLS

The New Improved Kelsey Warm Air Generator

A distinct type of heater different from a furnace or boiler.

HEALTHFUL because it warms fresh air by best method, warms large volumes of air properly, and forces to exposed or distant rooms and maintains an even temperature.

ECONOMICAL because it has greatest heating surfaces and utilizes all the heat to best advantage.

HEATS city or country houses of any size thoroughly in all winds or weather.

28,000 SOLD SINCE 1889 because of satisfactory results.

SEND FOR BOOK "OPINIONS"—112 pages of letters and 250 Kelsey Heated Houses.

KELSEY HEATING CO. - MAKERS - SYRACUSE, N. Y.

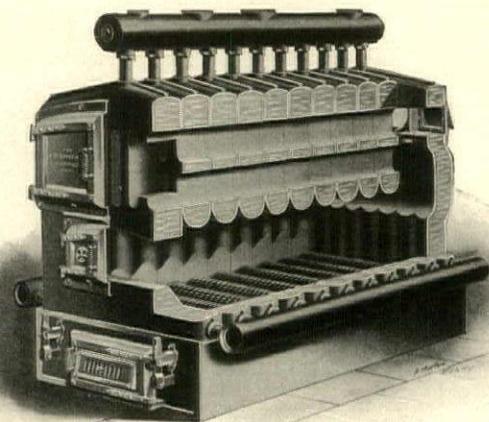
NEW YORK OFFICE:
No. 156 Fifth Ave.

PHILADELPHIA OFFICE:
Builders Exchange, No. 24 So. 7th St.

Heating Plans Promptly Furnished.

Boilers and Radiators

Steam and Water Warming.



MERCER BOILER.

PACIFIC COAST AGENTS
HOLBROOK, MERRILL & STETSON, San Francisco, Cal.
EUROPEAN AGENTS
AUG. EGGERS, Bremen and New York City.

THE H. B. SMITH CO.
WESTFIELD, MASS.

SALESROOMS:
133 Centre Street, - - NEW YORK CITY.
728 Arch Street, - - PHILADELPHIA, PA.



RESIDENCE, MR. C. LEDYARD BLAIR, FAR HILLS, N. J.

Carrere & Hastings, Architects.

The Plumbing Fixtures

FURNISHED BY

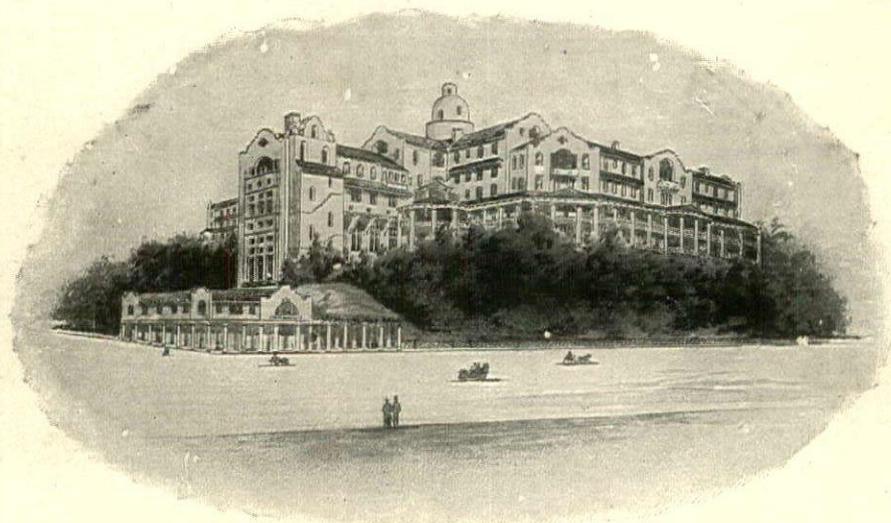
The Peck Bros. & Company

MANUFACTURERS OF

Highest Grade Plumbing Staples and Specialties

NEW HAVEN, CONN.

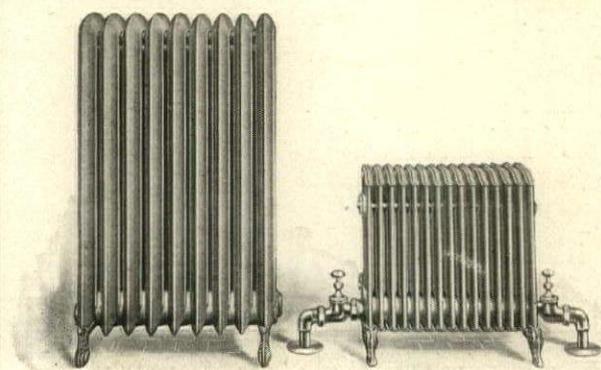
SHOW ROOMS: - - - 27 WEST 42D STREET, NEW YORK



HOTEL GRAMATAN, BRONXVILLE.

Wm. A. Bates and Alfred E. Barlow, Asso. Architects.

THE HEATING PLANT INSTALLED BY
WALKER & CHAMBERS
 ENGINEERS AND CONTRACTORS FOR
 HEATING AND VENTILATING APPARATUS
 50 EAST 20th STREET, NEW YORK



The Amount of Space

a radiator will occupy in a room is worthy of consideration.

This cut shows the relative size of the Kinnear and cast-iron radiator.

The amount of heat each will deliver is the same.

Yet the Kinnear occupies only one-half the space and weighs one fourth as much.

EVERY RADIATOR GUARANTEED

Send for new Catalogue No. 6

KINNEAR PRESSED RADIATOR CO.

Bailey-Farrell Building, Pittsburgh, Pa.

New York: Flatiron Building Chicago: First National Bank Building
 Indianapolis: 435 State Life Bldg. London: 19-21 Tower St., Upper St. Martin's Lane



STATE CAPITOL, HARRISBURG, PENN. JOS. M. HUSTON, ARCHITECT.

Woodbury Granite Company

HARDWICK, VT.

New York Office:
 1 Madison Avenue.

Pittsburg Office:
 1101 Farmers' Bank Bldg.

THE order for the Granite for the Pennsylvania State Capitol, Harrisburg, is the **LARGEST GRANITE CONTRACT EVER PLACED**, and the Woodbury Granite Company had the only quarry capable of filling this contract within the required time and of the quality specified.

—FACTS—

One-half mile around the building. Diameter of Dome, 100 ft.
 Thirty-two monoliths 3 ft. 10 in. diameter, 29 ft. 2 in. long.
 Four hundred thousand cubic feet of granite work.
 Commenced setting August 1st, 1903.
 Setting Main Cornice and Balustrade of both Dome and Building,
 October 1st, 1904.
 Average output one thousand cubic feet of cut work per day.



PLATE 902½ G
Small Square Lavatory "Empire"
design with integral back 6" high.
Size of slab, 20" x 18".
(This lavatory is supported by concealed
wall brackets.)



PLATE 887½ G
Lightweight Lavatory
"Walker" design.
Integral back either 3" or 6" high.
Size of slab, 24" x 20".
(This lavatory is supported by concealed
wall brackets.)



PLATE 885½ G
Round Front Lavatory, "Trent" design
with integral back 6½" high at center.
Set upon one vitreous china leg.
(Made with removable china cup as shown)

Every piece of ware manu-
factured by us is stamped
with our trade mark
"The Star within a Circle."

We also manufacture a
complete line of Siphon
Jet Closets, Washouts,
Urina's, Basins, etc.
Every piece is stamped
with our trade mark as
shown below.

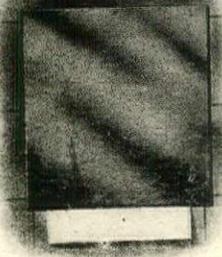


The Trenton Potteries Company

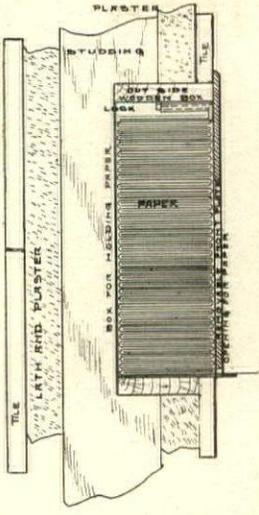
Trenton, New Jersey, U. S. A.

The . . .

"ONLIWON"



THIS new cabinet for toilet paper perfectly solves the problem of dispensing this indispensable article in the most perfect manner. The supply is removed from observation, its presence indicated only by an ornamental plate on the face of the tile. On the withdrawal of a sheet another is automatically presented. From a sanitary point of view, or that of neatness and convenience, it leaves nothing to be desired.



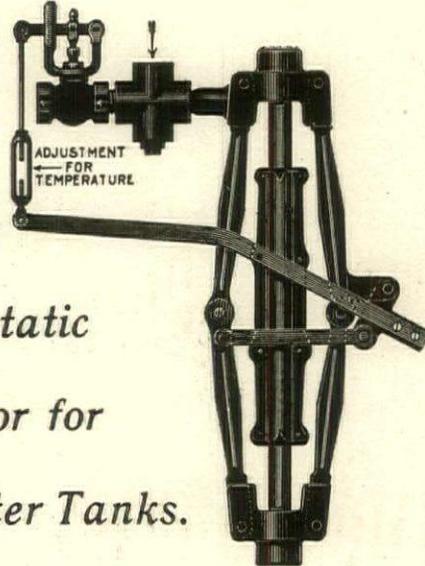
Descriptive Booklet on Application

**A. P. W.
PAPER COMP'Y
ALBANY, N. Y.
Sole Manufacturers**



BURLINGTON SLIDING BLINDS require no built-in pockets, no trimmings, no hinges; are inexpensive and easy to install; take up little room, and do not interfere with window curtains. Suitable for any window, adjustable to admit light from any part and may be instantly removed. We also make Burlington Venetian Blinds, Screens and Screen Doors. Made to order only, of any size, wood and finish. *Send for catalogue and estimates.*

BURLINGTON VENETIAN BLIND COMPANY
450 Lake St., BURLINGTON, VT.



Lawler's

Thermostatic

Regulator for

Hot Water Tanks.

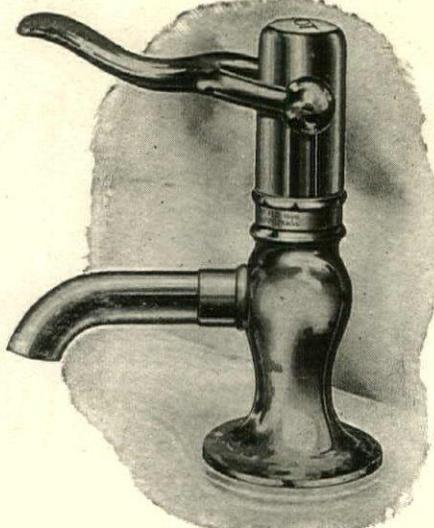
ADJUSTMENT FOR TEMPERATURE

KEEPS THE WATER AT ANY DESIRED TEMPERATURE. REQUIRES NO AUXILIARY POWER TO OPERATE IT. HAS NO PARTS TO WEAR OR GET OUT OF ORDER DURING A LIFE TIME. IN A CLASS BY ITSELF. HUNDREDS IN USE UNDER EVERY CONDITION.

MANUFACTURED IN THE UNITED STATES BY

THE LAWLER REGULATOR CO.
158 WOOSTER STREET, NEW YORK CITY.

Broughton Patent



Self-Closing Basin Cocks

SIMPLEST

BEST

MOST

DURABLE

E. STEBBINS MFG. CO.,
SOLE MANUFACTURERS,
BRIGHTWOOD, MASS.

1776-1906

If the shade of a revolutionist of 1776 could revisit us he would find nothing more happily revolutionized than methods of warming domiciles, wherein the uniform heat rays from steam and water circulations have replaced the scant, uncertain comfort of fireplace and Franklin stove.



For this improved state of the art of comfort-making there are no better forms of apparatus to recommend to clients than IDEAL Boilers and AMERICAN Radiators.

AMERICAN & IDEAL
RADIATORS & BOILERS

AMERICAN RADIATOR COMPANY

GENERAL OFFICES, 282-284 Michigan Ave., Chicago.

NEW YORK: 106 West 42d St.

BALTIMORE: 109 East Lombard St.

PITTSBURG: 601-603 Hartje Bldg.

DETROIT: 225 Jefferson Ave.

ST. LOUIS: 207-209 North Tenth St.

DENVER: 831 Fifteenth St.

SAN FRANCISCO: 1317 Gough St.

PARIS: 24 Rue de Mogador.

BOSTON: 129-131 Federal St.

CHICAGO: 282-284 Michigan Ave.

OMAHA: 413-417 South Tenth St.

KANSAS CITY: 313 East Tenth St.

PHILADELPHIA: 1342 Arch St.

BUFFALO: Court and Franklin Sts.

CINCINNATI: 336 West Fourth St.

MILWAUKEE: 126 Sycamore St.

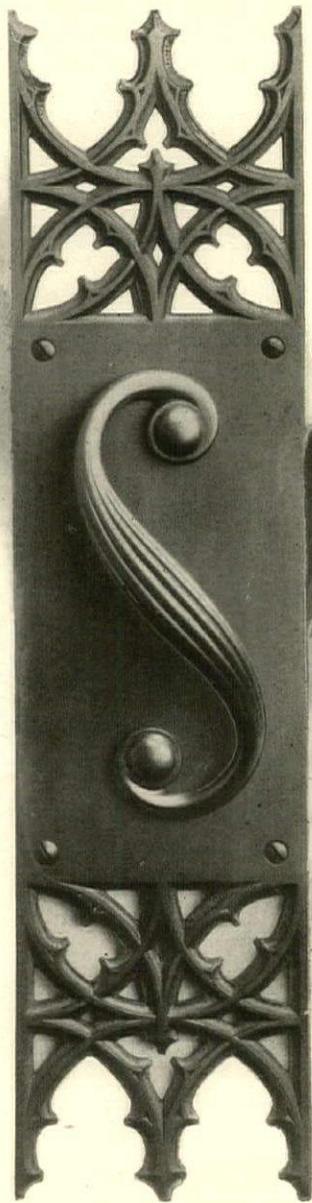
MINNEAPOLIS: 229 Fifth St. S.

SEATTLE: 1215 Alaska Bldg.

LONDON E. C.: 89-90 Shoe Lane.

BERLIN: 35 Alexandrinen Strasse.

The Gothic School of Ornament



Beauvais Door Pull
French Gothic

like the Renaissance was modified in the different countries, and the various types are known as English Gothic, French Gothic, German Gothic, and Italian Gothic. It is one of the best known schools of architecture, probably because of its very extensive use in prominent religious buildings. It is strong both in general effect and in detail, and requires, perhaps more than most others, hardware of careful design.

Yale & Towne Builders' Hardware

embraces 30 designs distributed among the various Gothic variations. The high character of the Y. & T. line makes it specially suitable for church, library, and other public buildings where dignity and impressiveness must be secured as much from quality in finish as from size.

Architects who devote the most careful attention to the selection of hardware to harmonize with the treatment of the building find united in Yale & Towne designs the proper historic quality and the most effective mechanical treatment.

On page 114 of this number will be found under the title of "Schools of Ornament," an article on the Gothic, prepared by Mr. W. W. Kent, Architect, at our suggestion. A little portfolio containing a dozen Yale & Towne Design Cards will be sent on request.

The Yale & Towne Mfg. Company

General Offices: 9 Murray Street NEW YORK Exhibit Rooms: 242 Fifth Avenue

Local Offices: Chicago, Boston, Philadelphia, San Francisco.

ARCHITECTURE

Vol. XIII. JUNE 15, 1906. No. 6

ARCHITECTURE, conducted by a Board of Architects in the interests of the profession, is published the fifteenth of every month by FORBES & COMPANY, LTD., 160 Fifth Avenue, New York. Its opinions on technical subjects are either prepared or revised by specialists.

PRICE, mailed flat to any address in the United States or Canada, \$5.00 per annum, in advance; to any foreign address, \$7.00 per annum in advance.

ADVERTISING RATES upon request. The writing and displaying of advertisements is an art in itself, and the publishers will be pleased to give the Advertiser the benefit of an Expert's experience in this line at no additional expense.

THE PUBLISHERS regret that owing to the demand the supply of back copies of ARCHITECTURE is limited. Prices will be quoted on application. The regular price of each number is 50c.

ENTERED at the New York Post Office as second-class mail matter.

PLATES AND ILLUSTRATIONS.

HISPANIC SOCIETY OF AMERICA BUILDING, New York, <i>C. P. Huntington, Architect.</i>	-	Plate XXXVI
DANFORTH MEMORIAL LIBRARY, Paterson, N. J., <i>Henry Bacon, Architect</i>	-	Plate XXXVII
HOTEL BELMONT, New York.		
Detail of Facade, - - - - -	-	Plate XXXVIII
Dining Room, - - - - -	-	Plate XXXIX
Lobby, - - - - -	-	Plate XL
<i>Warren & Wetmore, Architects.</i>		
RESIDENCE, IRVING T. BUSH, New York, - - - - -	-	Plate XLI
<i>Kirby, Petit & Green, Architects.</i>		
DINING ROOM, PAUL WILCOX, Montclair, N. J., - - - - -	-	Plate XLII
<i>Frank E. Wallis, Architect.</i>		
BUSINESS HIGH SCHOOL, Washington, D. C., - - - - -	-	Plate XLIII
<i>B. Stanley Simmons, Architect.</i>		
ARCHITECTS OF TO-DAY.		
MR. WILSON EYRE, - - - - -	-	102
CARNEGIE TECHNICAL SCHOOLS, Pittsburgh.		
Six Exteriors, - - - - -	-	104-105
Bird's-eye View, Plan, Administration Building, and Power House Group, - - - - -	-	106-107
<i>Palmer & Hornbostel, Architects.</i>		
PENNSYLVANIA RAILROAD STATION, New York.		
Restaurant, Waiting Room, Concourse and Tracks, - - - - -	-	108-109
<i>McKim, Mead & White, Architects.</i>		
COUNTRY HOUSE, A. F. H. STREULI, N. J., - - - - -	-	110
<i>Tracy & Swartwout, Architects.</i>		
BEAUX ARTS COMPETITIONS, - - - - -	-	112-113-116

Copyright, 1906, by FORBES & COMPANY, LTD., 160 Fifth Ave., New York.

WANTED—First-class designer for Stained Glass and Interior Decorations. Must have had experience in some high class stained glass house and be able to do landscape and figure work in glass. MACKAY & Co., 302 Mason Bldg., Los Angeles, Cal.

The Garden City Company will receive competitive designs for suburban houses of moderate cost until Aug. 1, 1906. The following prizes are offered: Two of \$1,000, two of \$500, and ten of \$100. For particulars, address The Garden City Company at No. 60 Wall Street, New York City.

PROFESSIONAL COMMENT.

AT the May meeting of the Architectural League the administration of Mr. Richard Howland Hunt was fully endorsed by the election of the following ticket:

For President, Richard Howland Hunt. For 1st Vice-President, Herbert Adams. For 2nd Vice-President, Joseph Lauber. For Member of the Executive Committee, Class of 1907, John M. Carrère. For Members of the Executive Committee, Class of 1909, Grosvenor Atterbury; Frank Howell Holden; Taber Sears. For Delegate and Alternate to the Fine Arts Federation for two years, Delegate, J. Monroe Hewlett. Alternate, Charles I. Berg.

At this meeting the proposition was also discussed as to the advisability of the League's withdrawal from the Architectural League of America, but, notwithstanding that this action was recommended by the Special Committee who had considered the matter, the meeting voted it down mainly upon the grounds that the League of New York, as the senior architectural organization of the country, owed it to its smaller sister societies throughout the West and South to lend them their energetic support in the excellent work which the League of America is doing. It seems to us very wise that the League took this course, as there is no doubt that the many movements for municipal and civic improvement which are under way from one end of the country to the other have been mainly inspired by the work of the Architectural League of America, and irrespective of the reasons that might have governed the New York League's action, their withdrawal at this time would unquestionably have been misunderstood.

THE University of Notre Dame in Indiana announced that they have detached the course of architecture from their College of Engineering and have created a new College of Architecture.

THE action begun by the City of New York over two years ago against the Knickerbocker Trust Company to prevent the encroachments of this monumental building over the street line of Fifth Avenue and 34th Street, came to trial during the month of May. The city is seeking an injunction to prevent the Company from maintaining steps and columns at its building at 34th Street and Fifth Avenue which encroach beyond the building line over an area equivalent to half a city lot. The defense set up that certain balconies which had existed upon the old Stewart Mansion upon the same property, occupied the same area, and that, therefore, they had a right to the land covered by the encroachment. Justice O'Gorman reserved decision, but the previous cases covering matters of the same sort in relation to encroachments on Fifth Avenue have been invariably decided in the city's favor. The recent declaration by the Courts that the so-called ornamental projection ordinance is unconstitutional, will no doubt cause a number of other cases of similar character to be fought out during the coming year and it is exceedingly important to the building fraternity that the contention of the city should be thoroughly upheld; as with rich corporations or private owners receiving special privileges to encroach upon the street, no end of trouble will be in sight for architects who are attempting to cause their clients to obey the law, as they naturally will insist that they are entitled to as many privileges as a Trust Company or a theatre.

CALIFORNIA is one of the few States where the License Act is in force, and the State Board of Architects has officially objected to the influx of men from other States for the present.

A notice to this effect has been sent out by Lionel Deane, Secretary of the Board, in which he states that there are three hundred and fifty certified architects in the State of California, of whom two hundred are doing business in and around San Francisco, and in addition to this there are about one thousand draughtsmen.

THE recent article in Harper's Weekly by Mr. Henry Harrison Suplee, a member of the American Society of Mechanical Engineers, gives the results of the first reasonably complete examination of the effects of the earthquake from an engineering standpoint. The story of how the modern steel frame structure stood the vibration is too well known to need repetition here. But, of the ordinary structures Mr. Suplee states that they reveal their unfitness to exist in any locality where earth tremors are to be expected.

Even when honestly built, they are, in his opinion, by their very nature, "unsuited to resist heavy vibrations." In speaking of the steel frame buildings, Mr. Suplee states that in most cases they are not designed to resist heavy vibrations; but that they can be so built, every engineer will concede. "Structures are built every day to resist repeated vibrations as heavy and violent as were imposed by the earthquake shock. Many a railroad bridge receives from the impact of advancing trains and from the hammer blow of locomotive driving-wheels shocks and sudden stress for which provision has been made in the design. In Japan, the land of earthquakes, Professor Ormori has applied the seismograph with success to the study of bridge vibrations, the sensitive recorder showing the tremor of the approaching train, the pounding blows of the passing mass and the gradual return to rest as the locomotive and its burden pass away. The steel frame building for an earthquake country needs in addition to the provision for dead and live loads and for wind stresses just such a system of stiffening and counter-bracing as is found effective in the modern heavy service railroad bridge." The writer agrees with most of the other experts that a reinforced concrete method would adapt itself better to the requirements of the country than any other system known, and he points out that the experiments of Considère have demonstrated the fact that "properly imbedded metallic rods increase the elastic limit of concrete to a great extent, probably by distributing the stress throughout the mass and preventing such localization of strains as would otherwise cause the formation of cracks."

The latest advices from the stricken city seem to indicate that nothing definite in the line of reconstruction can be determined upon until the "Special Committee on the Reconstruction of San

Francisco" has decided upon a comprehensive system of building laws. Upon this committee there are two architects who previously practiced in New York,—Mr. Willis Polk, who is a member of the Committee proper, and Mr. John Galen Howard, who is acting in an advisory capacity. We are informed by one of these gentlemen that the Burnham Plan has now been officially adopted.

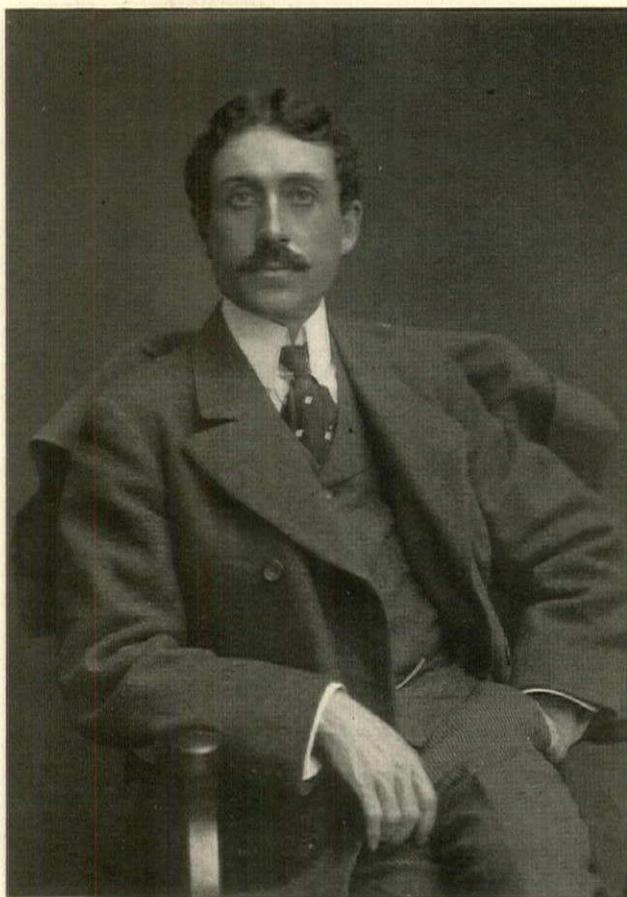
THE Licensing Bill introduced into the Legislature of the State of New York during the past session is dead. It died a natural death in Committee, not by reason of any special opposition developed against the measure but mainly through the fact that its introduction occurred so late in the session that its advancement was impossible amid the mass of pending bills. Another weakness of this particular measure was that it was not fathered by any one in

particular until very late in the session, but it is anticipated that measures will now be taken to re-introduce it in the beginning of the next Legislature, and if backed up with the almost unanimous sentiment which developed too late to be of service this year, there should be no doubt of its final passage.

THE successful competitors for the New National Theatre, were Messrs. Carrere & Hastings. Unlike most places of amusement in this country this building will have the appearance of a theatre from the outside as well as from the inside, as it will occupy an entire block and will be visible on all sides, having a frontage of two hundred feet on the avenue, and a depth of two hundred and twenty-five feet. The design selected is a modified Italian Renaissance, and the material will be stone. Each of the forty-six founders will have a special box arranged in one of two tiers about the amphitheatre, and these boxes will be entered through private entrances on each side of the building. The seating capacity of the

theatre will be about three thousand, and the auditorium seats will be much more commodious and comfortable than in the usual places of amusement. There will be two galleries above the boxes. The stage will have the extraordinary depth of seventy-five feet, and on the roof there will be a palm garden enclosed by glass, reached by elevators which will also descend to the restaurant in the basement. Unlike most of the theatres, the house will be provided with a scene dock, so that the scenery may be kept within the building.

THE report of the Committee on Skylights of the National Fire Protection Association, which was considered at its meeting in Chicago on May 22 and 24, seems to show that the fire interests are becoming a little more considerate of the many other obligations which the architect owes to his client other than the



Architects of To-Day.

MR. WILSON EYRE, PHILADELPHIA.

purely fire risk. One of the peculiar differences which has existed for a number of years between the requirement of the underwriters and that which ordinary protection of life seem to demand, has been that, irrespective of the fact that architects generally realize that it is desirable to glaze skylights over shafts with the thinnest possible kind of glass so as to allow for the escape of smoke, the underwriters have in the past demanded that these skylights be glazed with wire glass, and the loss of life in consequence of this requirement has been considerable. The report spoken of now excepts skylights over stairs, elevators, dumb-waiter shafts, and stage roofs from the requirement of wire glass.

THE artificiality of the present prices charged for hard brick is peculiarly demonstrated in the fact that face brick which, for the past ten years has cost from twenty to thirty dollars a thousand, remains at its old figure, while the common material has risen over one hundred per cent.

ANOTHER attempt to introduce quantities surveying in this country is now being made by an "Estimating Bureau" whose business consists in making complete lists of quantities for the various trades, and to furnish said lists to builders upon application, for a small fee, the owner and architect being put to no expense as is the case in England, where quantities surveying is the usual thing.

THE legal contradictions in New York City in relation to the definition of a "hotel" has been further involved by a recent decision of Magistrate Wahle in a liquor tax case, in which His Honor determined that a building having ten rooms above the ground floor is a "hotel" within the meaning of the liquor tax law, while a building having fourteen rooms or more is a "hotel" within the meaning of the Building Code. The rulings of the Building Bureau for many years has been that a "hotel" is a building containing over fifteen bed-rooms above the first floor, so it is evident that the architect can take his choice and fight it out on any line that he thinks best.

THE PALACE OF PEACE.

THE following is the result of the Peace Palace competition:—
First prize (12,000 florins), M. L. M. Cordonnier, Lille; second prize (9,000 florins), M. A. Marcel, Paris; third prize (7,000 florins), Herr Franz Wendt, Charlottenburg; fourth prize (5,000 florins), Herr Otto Wagner, Vienna. A prize of 3,000 florins was awarded to Messrs. Howard Greenley and H. S. Olin, of New York, and another of 3,000 florins to Herr Franz Schwechten, of Berlin.

The winning design is in the style of the chateaux of Northern France. The main building is flanked by high towers, two of which are at the end of the facade. The winner is about 48 years of age, and has already carried out several important works, and in 1885 won the first prize in the competition for the Amsterdam Bourse.

The results of this important competition cause amazement in the world of Architecture. There has been much claimed for the Jury System in competition awards. Here at least it has signally failed. The hasty consideration of the numerous designs was inadequate for a fair judgment. The most careful figuring of time proves that many drawings must have been passed over with a mere glance. It is evident that the critics of this international competition were dominated by the spirit of the French school and so enslaved by its traditions that every other thought was pushed aside. We cannot believe, however, that the work of Cordonnier expresses

the best of modern French—the whole design is lacking in dignity and balance—and we doubt if French architects are proud of their representative. In a Palace of Peace we expect to see a building which shall be reposeful and strong, and the essence of the selected design should interpret that sentiment. But what do we find? A design which is both fretful and feeble, and more suited for a Palace in the Isle of Unrest.

The professional press of Europe criticises the jury for its lack of character and thoroughness. We quote from the *British Architect*:

"Of the uncertainties of competition work no more striking illustration has been known than that of the Palace of Peace. Here was a case in which the best architectural judgment would point to the adoption of something to carry on the traditions of the finest architecture the world has known—that of Greece and Rome. To put up an example of merely local art, and that of a picturesque type, would not commend itself to any architect of great repute—at least that is our belief. In this belief most English competitors have probably worked, and yet exactly the reverse has happened! If this competition merely results in the adoption of certain designs as a basis for a final scheme, to be handed over to a local architect, we shall not be surprised. If it should prove so, we can only say that the profession have been very badly treated."

We do not agree altogether with our British contemporary regarding the preferred style of architecture—that of Greece and Rome. There are many who hoped to see this motive of Peace bring forth some new creation whose individuality would combine a harmony, an originality, and a dignity—all its own.

READY MIXED vs. SHOP MIXED.

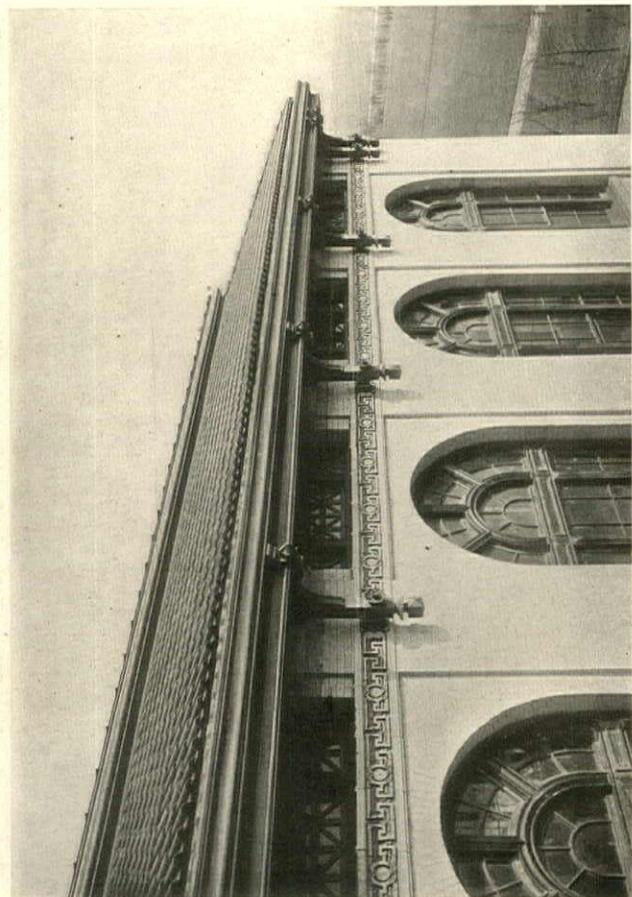
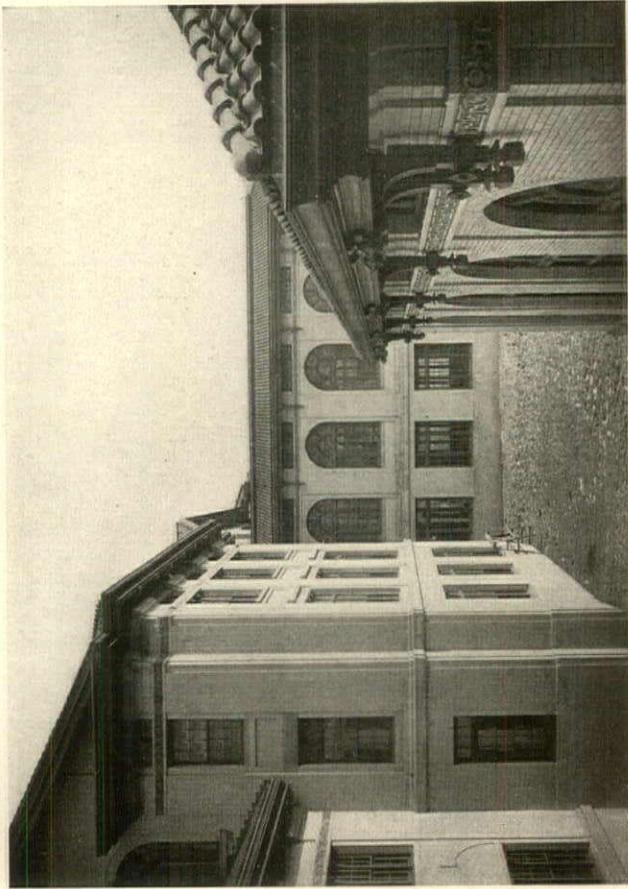
THERE is a professional prejudice against ready-mixed paints while there is a decided popular opinion favorable to them. It is easier to account for the latter than for the former. The public judges by results, the professional man, too often, from theoretical grounds or from precedent.

On the face of the matter the probabilities are all in favor of ready-mixed paint and against the shop-mixed product. The former is the result of accumulated and multiplied experience fortified by technical knowledge—the latter a product of tradition, inexact methods, and necessary ignorance of technical conditions. As a class, painters are resolutely opposed to the use of these modern factory products. In some cities the local associations have adopted resolutions binding themselves mutually not to apply them. Is it a spirit of philanthropy or of scrupulous probity that prompts such extremes? Perhaps so, but such a conclusion is open to suspicion.

As a matter of simple fact this wide-spread opposition is prompted by two considerations: first, the assumption that the convenience and comparative cheapness of ready-mixed paints will deprive the painter of his profit on part of the materials used in painting and on the labor employed in mixing them; and second, the less excusable opposition to any material that lasts too long and thus defers repainting. The last mentioned motive probably prevails to a far less extent than the first.

In the country and country towns of 1,000 inhabitants or fewer, probably two gallons of ready-mixed paint are used to one gallon of shop-mixed; in cities of five thousand inhabitants and upwards, shop-mixed products are the rule. The reason for this disparity is found in the fact that in the city the architect rules the specification and the painter (or what amounts to the same thing, painters' tradition) rules the architect.

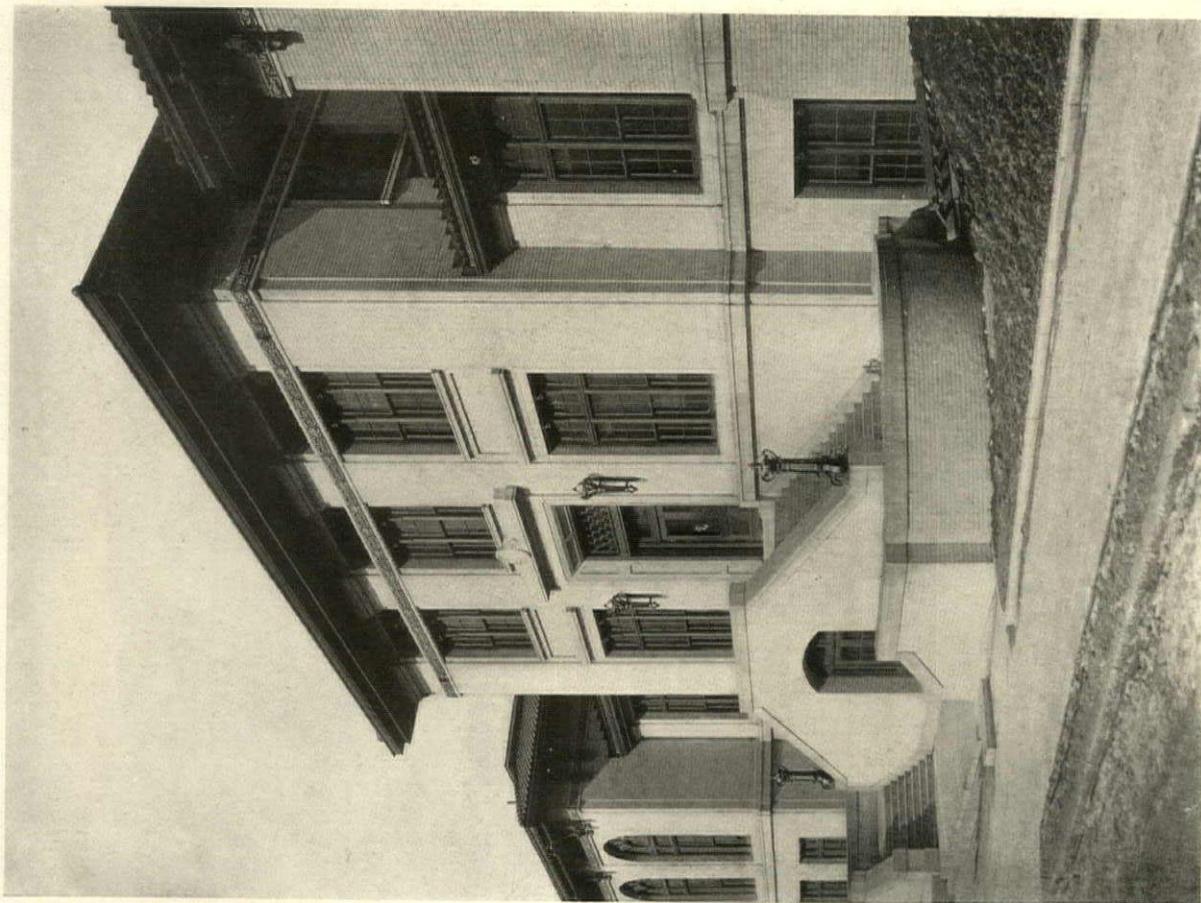
(Continued page 111)



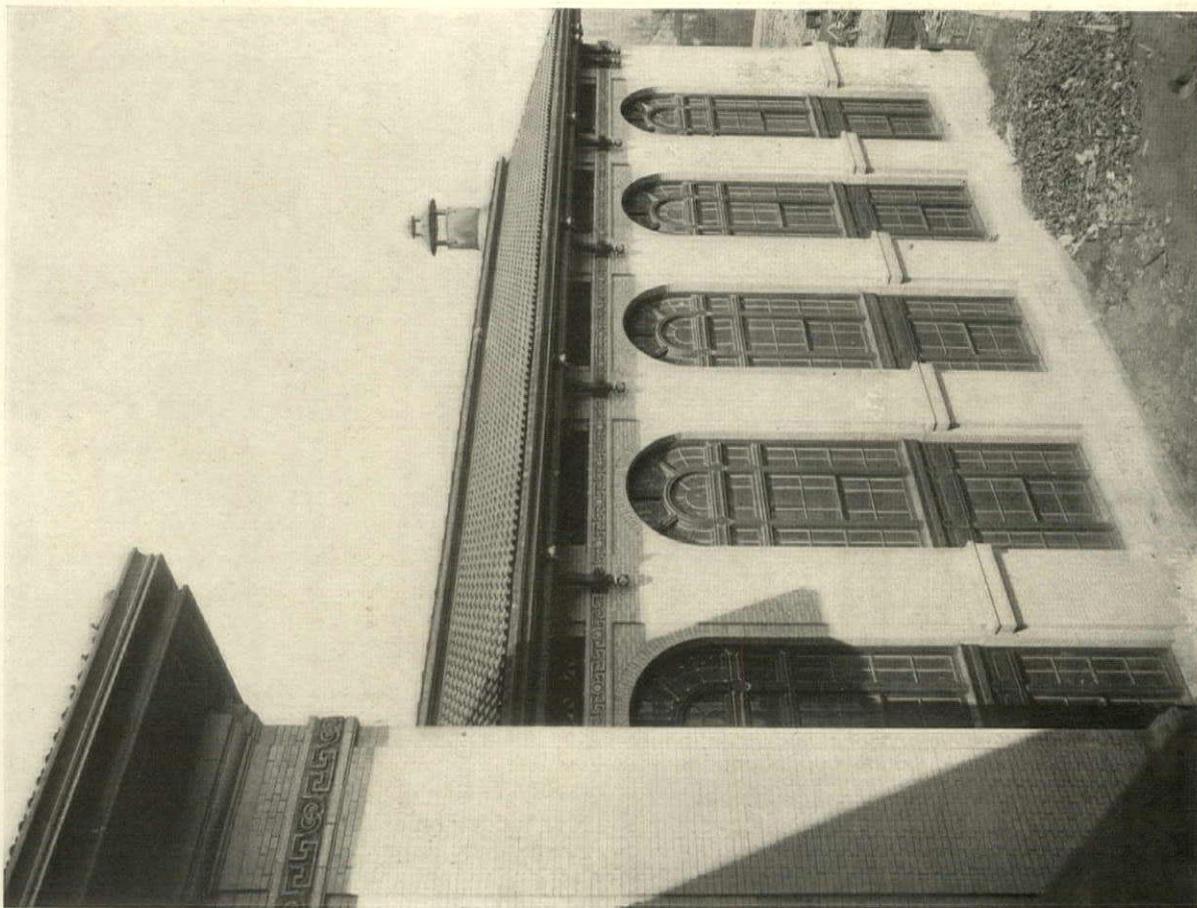
Palmer & Hornbostel, Architects.

We call special attention to the Detail (lower right hand plate) showing Guastavino arches under cornice.

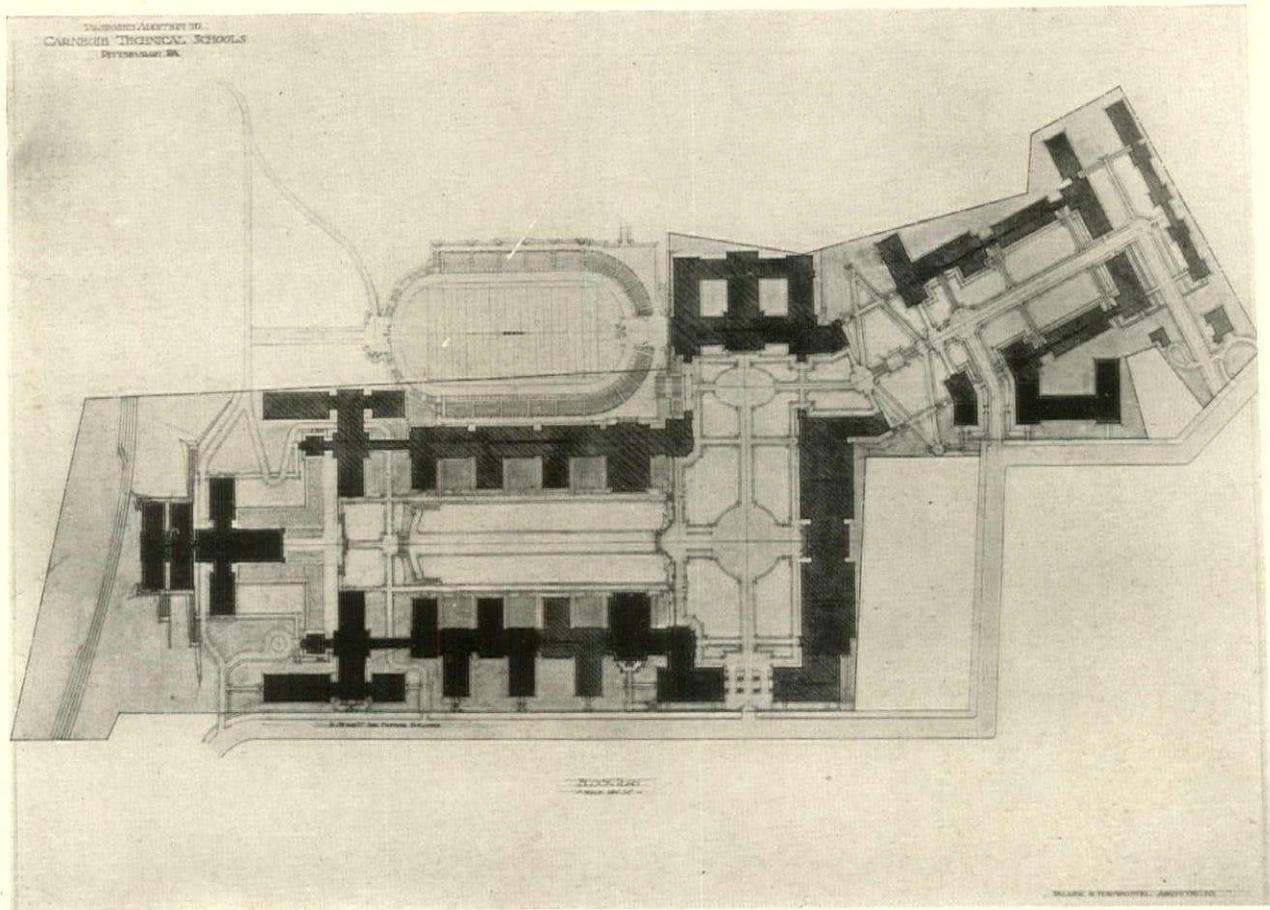
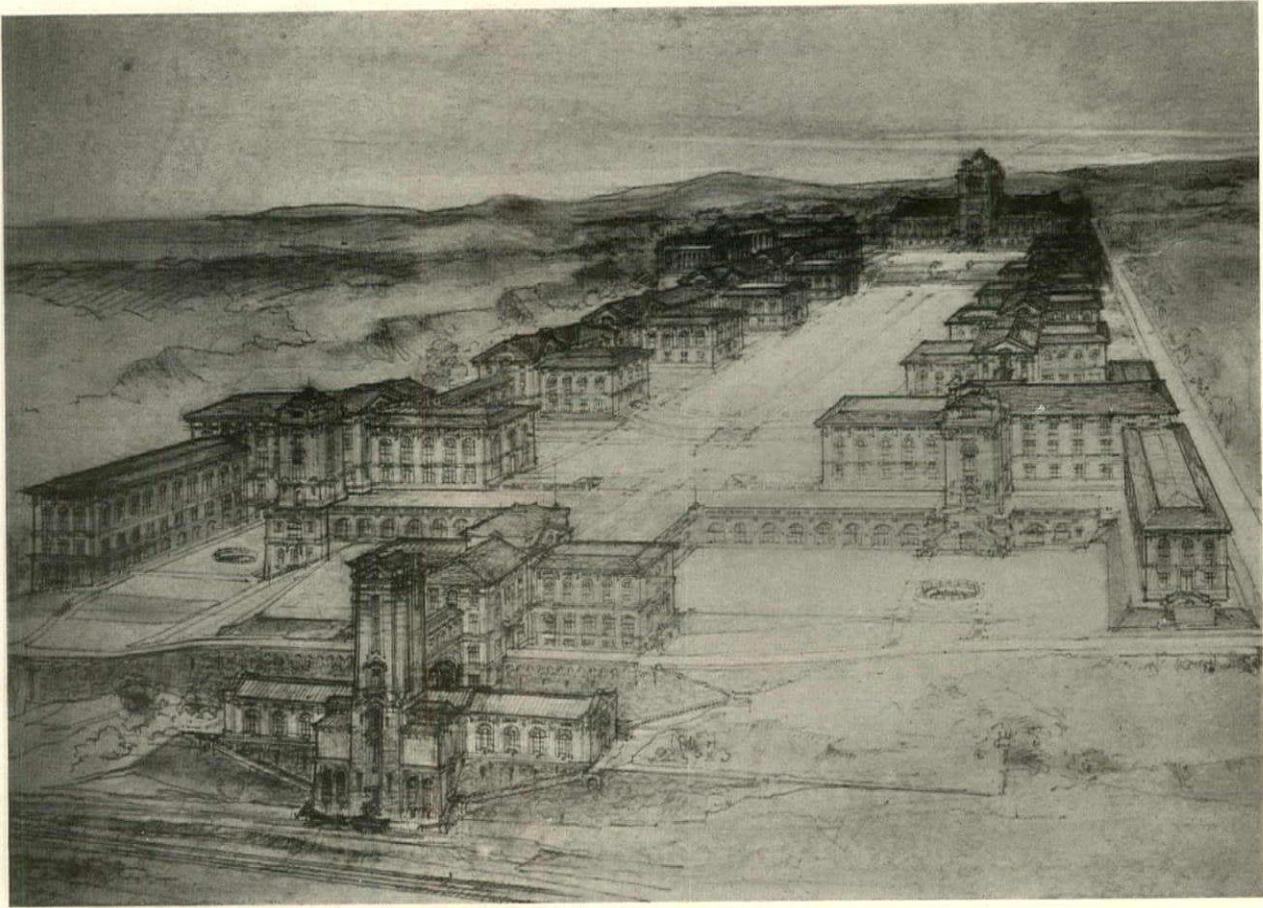
CARNEGIE TECHNICAL SCHOOLS, PITTSBURGH.



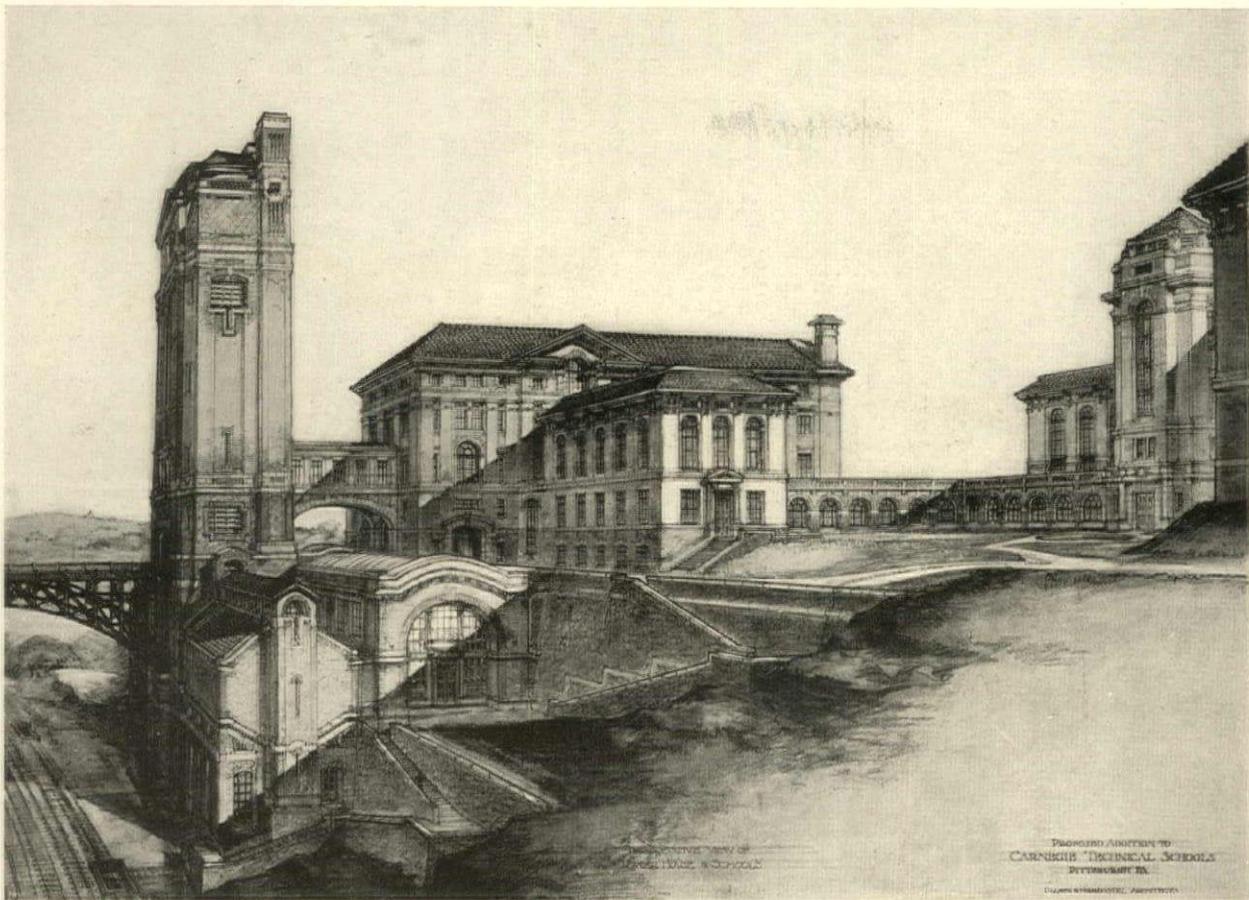
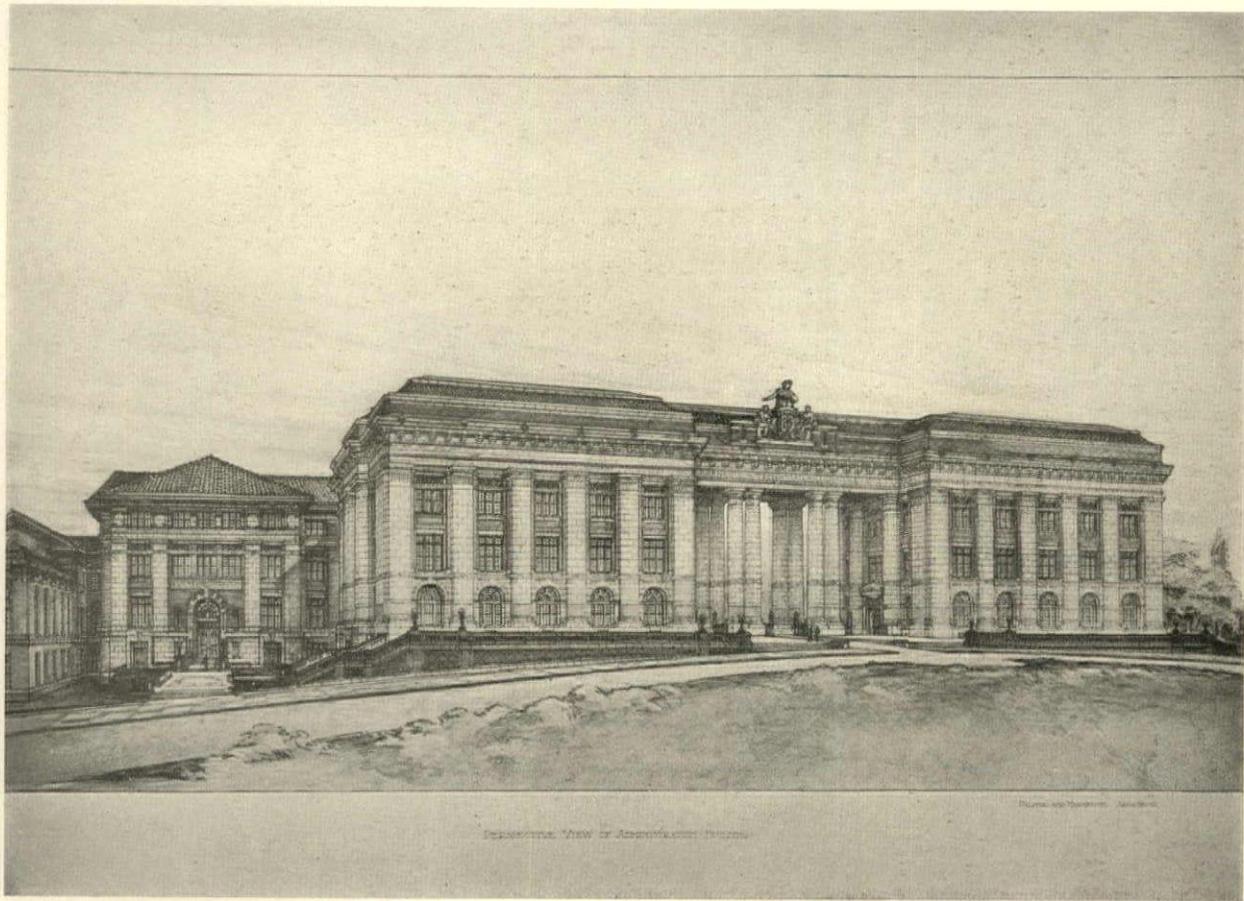
Palmer & Hornbostel, Architects.



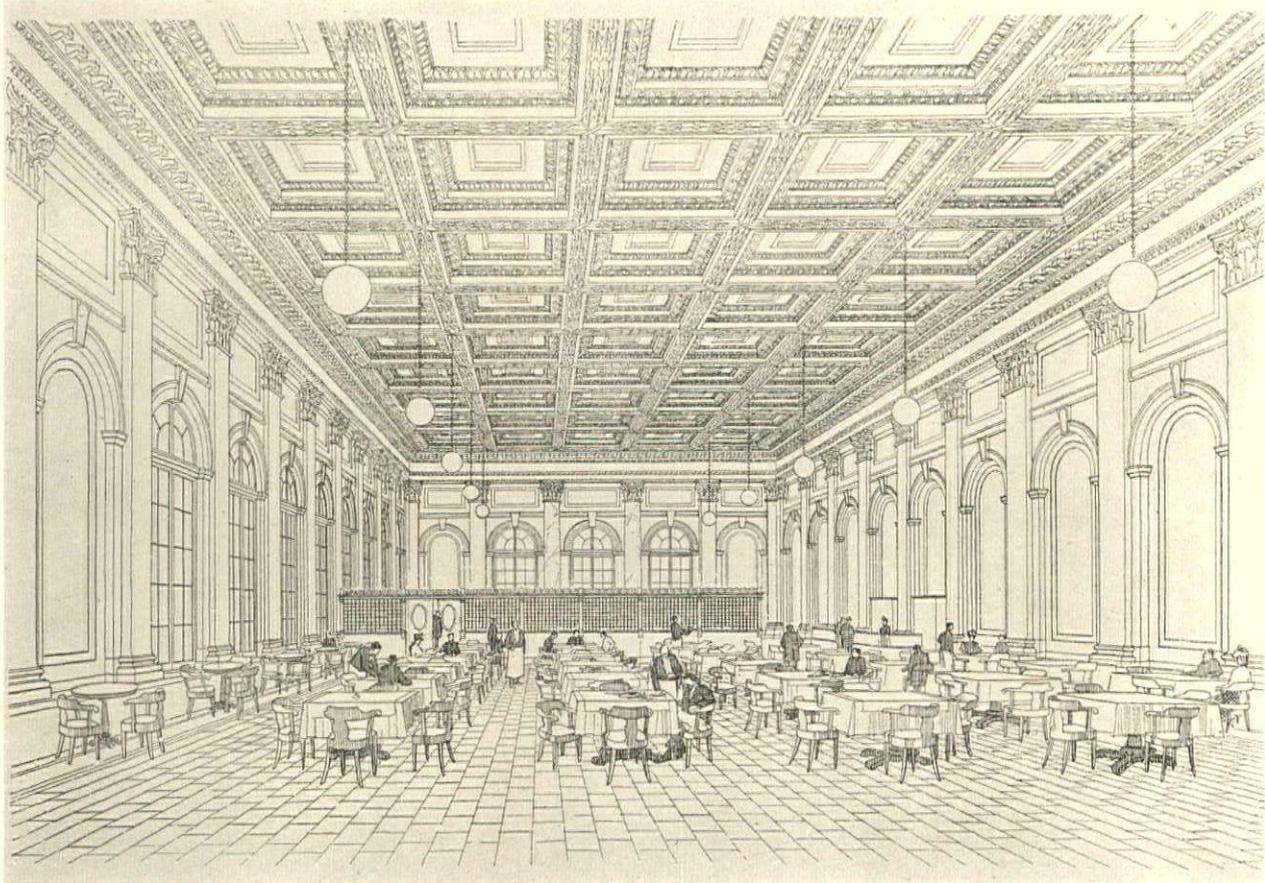
CARNEGIE TECHNICAL SCHOOLS, PITTSBURGH.



CARNEGIE TECHNICAL SCHOOLS, PITTSBURGH. BIRD'S-EYE VIEW AND BLOCK PLAN, SHOWING COMPLETED AND CONTEMPLATED BUILDINGS.
Palmer & Hornbostel, Architects.

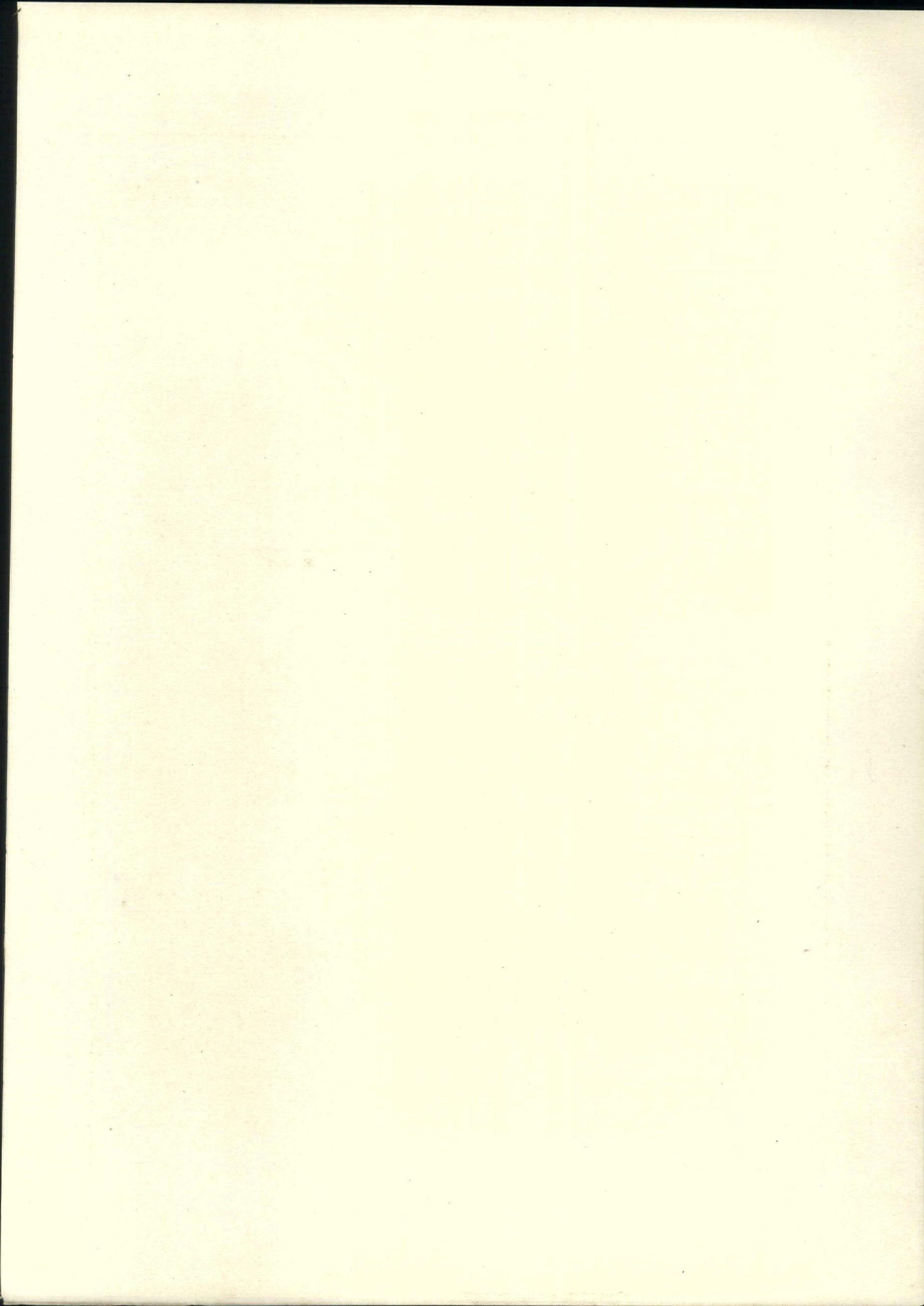


CARNEGIE TECHNICAL SCHOOLS, PITTSBURGH. ADMINISTRATION BUILDING AND POWER HOUSE GROUP.
Palmer & Hornbostel, Architects.



RESTAURANT AND CONCOURSE, PENNSYLVANIA RAILROAD STATION, NEW YORK.

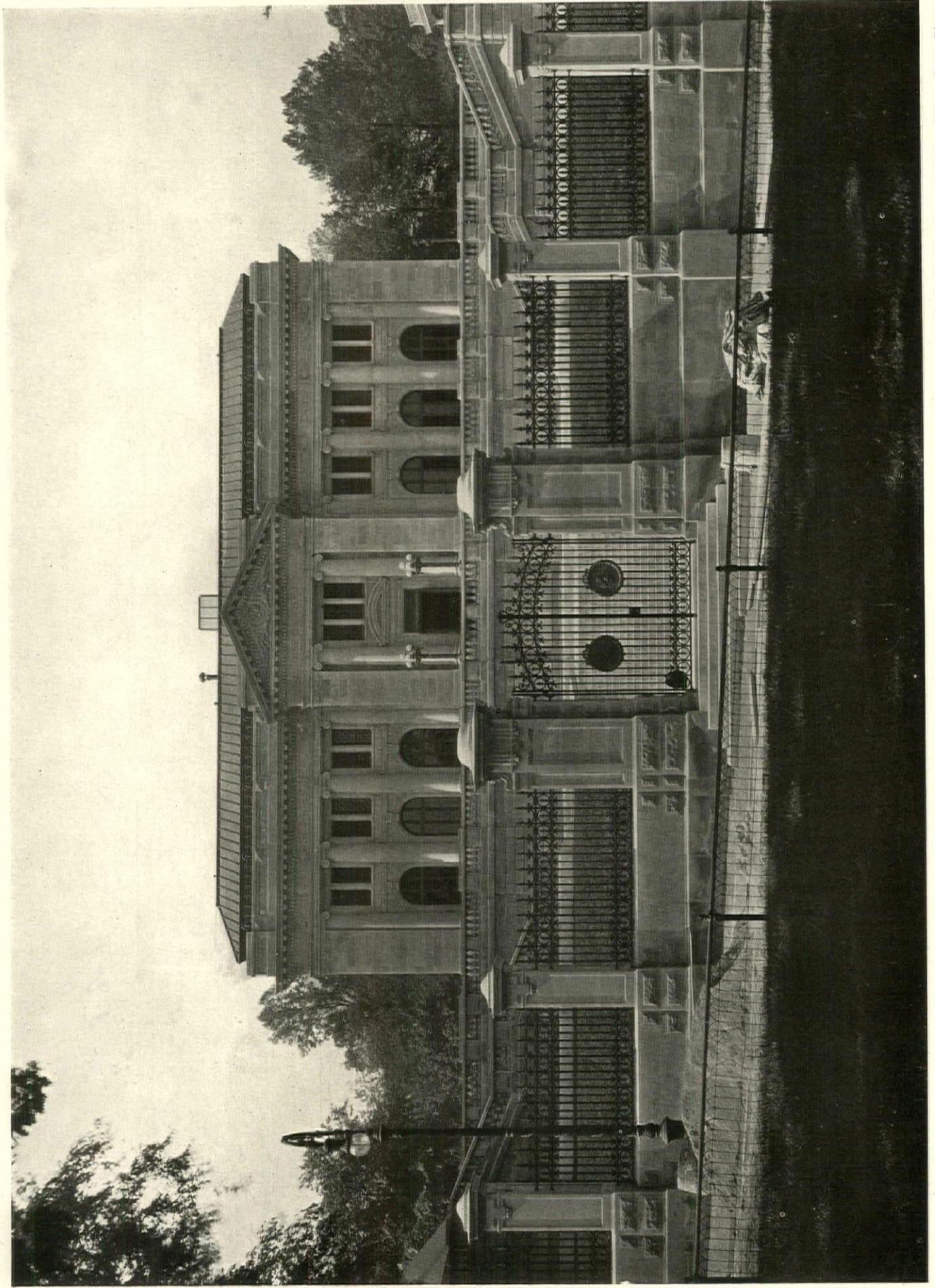
McKim, Mead & White, Architects.



ARCHITECTURE

PLATE XXXVI.

JUNE, 1906.



HISPANIC SOCIETY OF AMERICA BUILDING, 156TH ST. NEAR BROADWAY, NEW YORK.

C. P. Huntington, Architect. Wurts Bros. Photo.

ARCHITECTURE

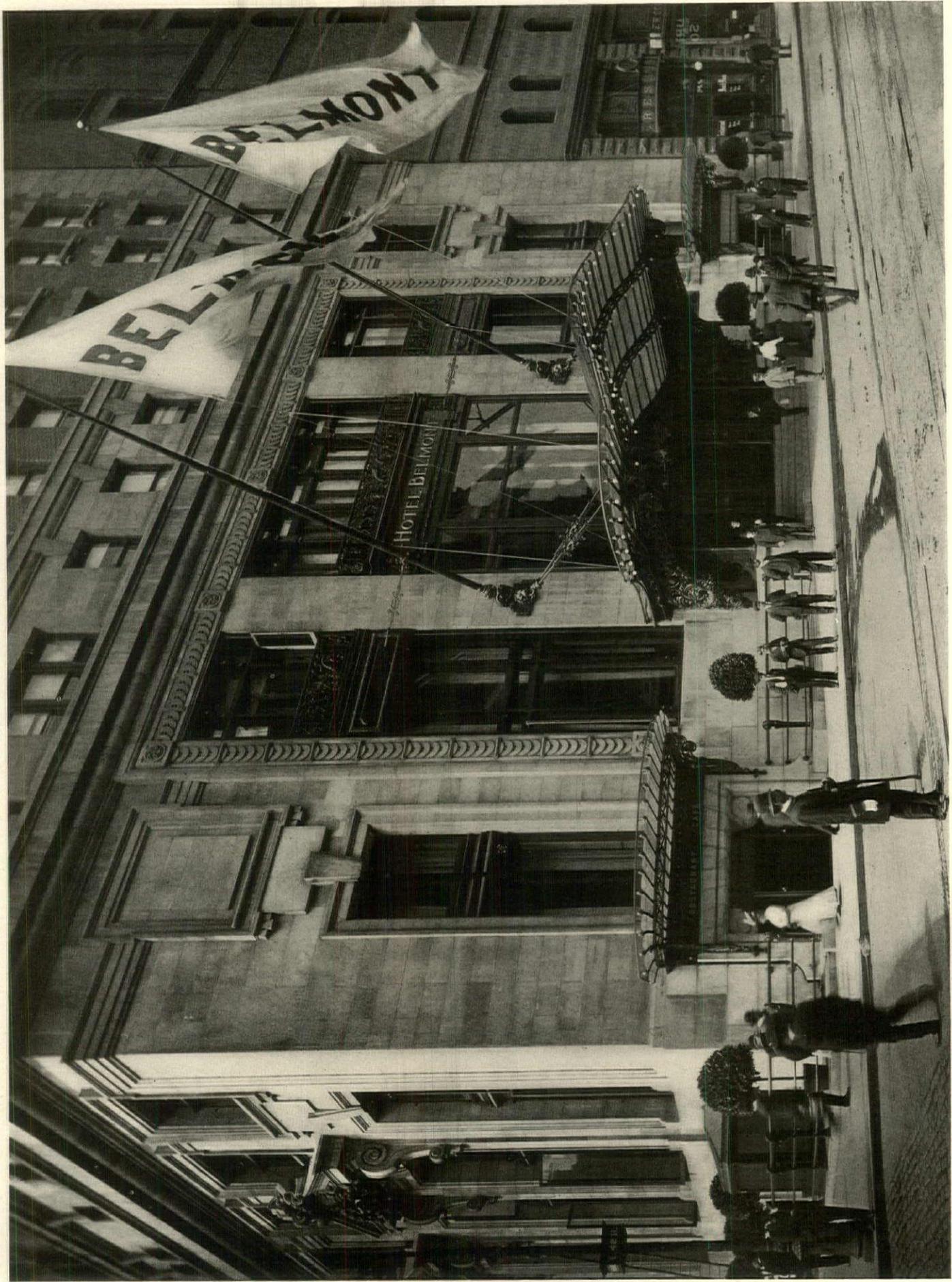
JUNE, 1906.



Henry Bacon, Architect.

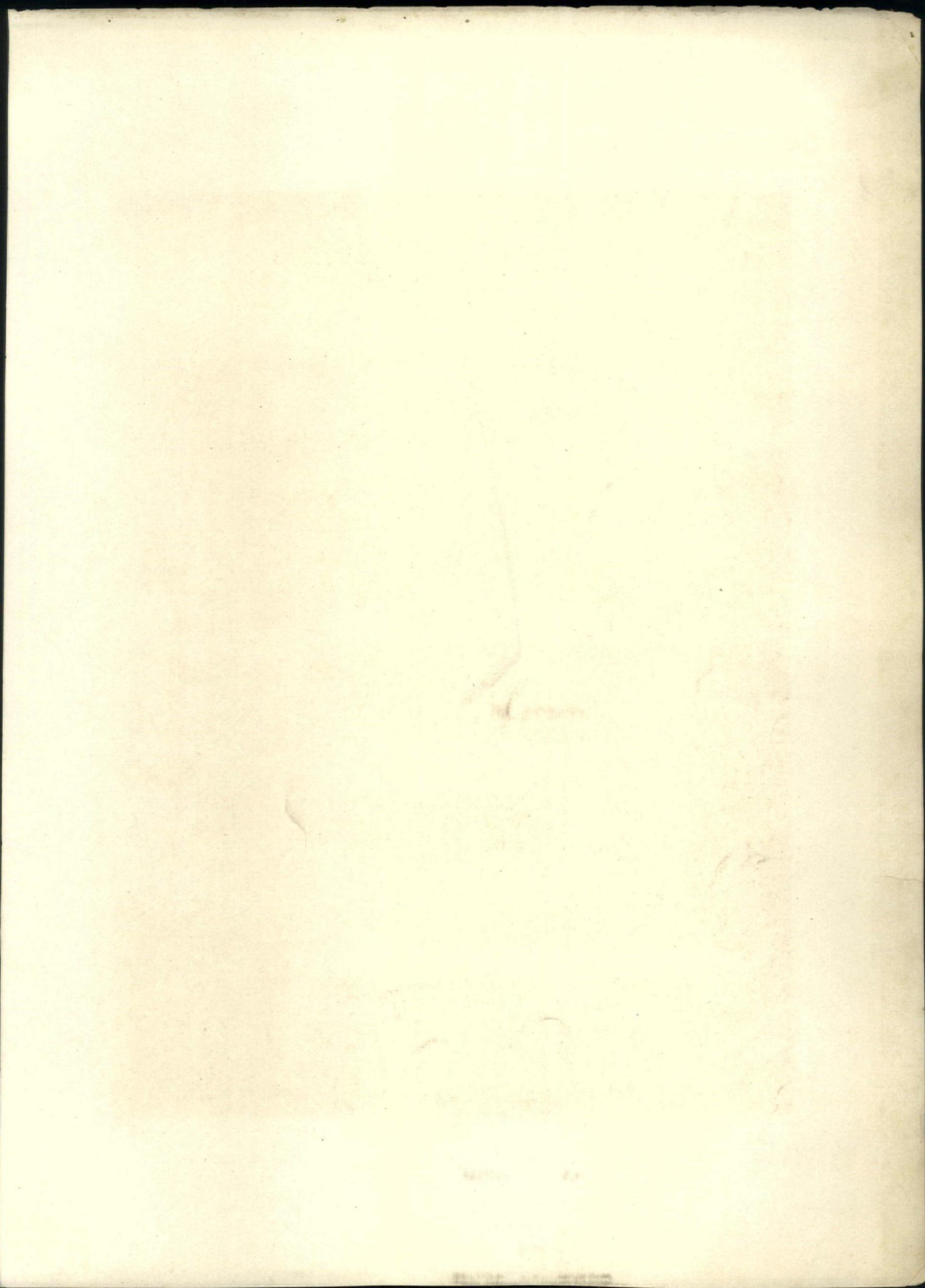
DANFORTH MEMORIAL LIBRARY, PATERSON, N. J.

JUNE, 1906.



DETAIL OF FACADE, FORTY-SECOND STREET ELEVATION, HOTEL BELMONT, NEW YORK.

Warren & Wetmore, Architects. Wurts Pros. Photo.





DINING ROOM, HOTEL BELMONT, NEW YORK.

Warren & Wetmore, Architects. Wurts Bros. Photo.



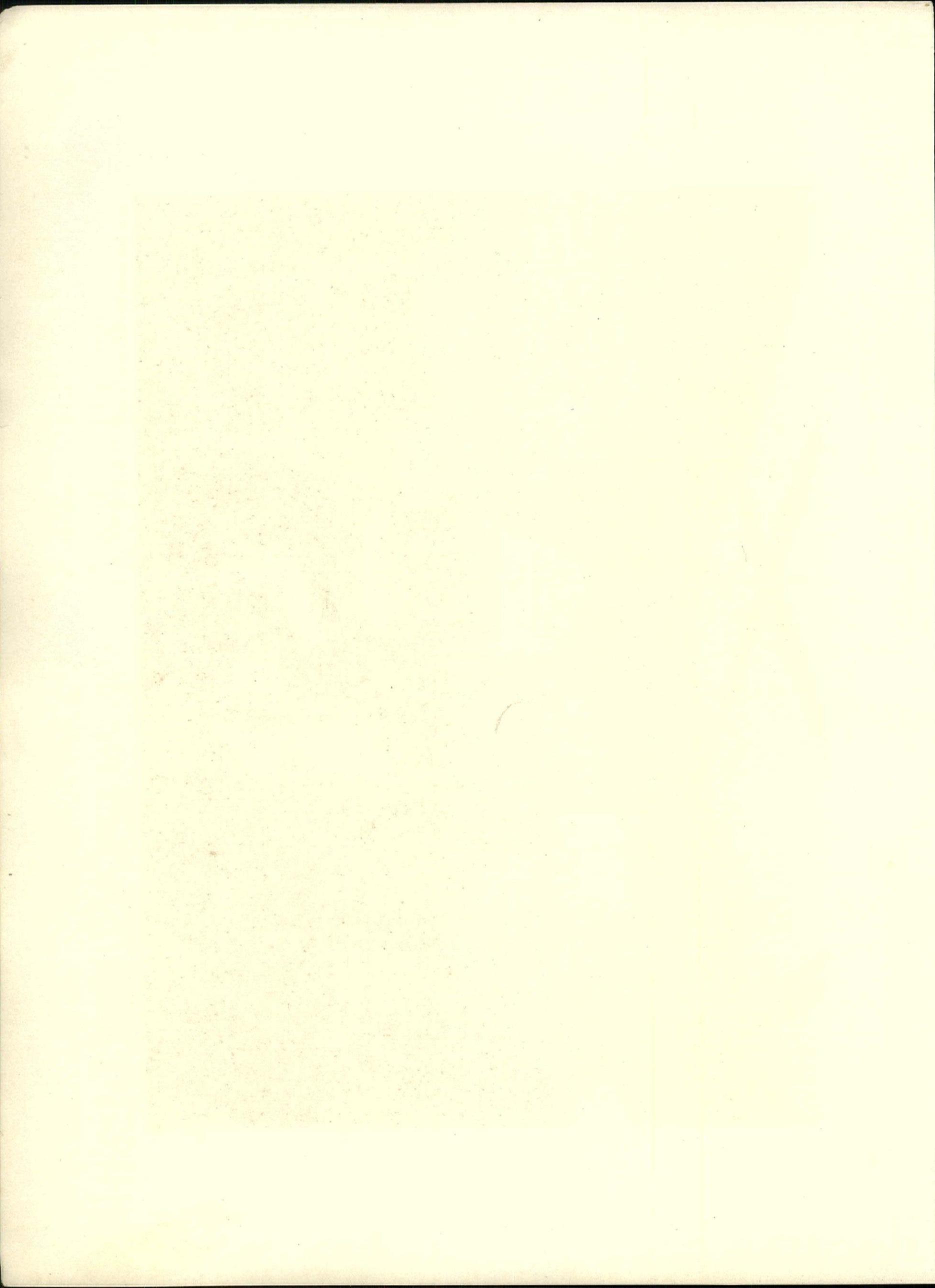
LOBBY, HOTEL BELMONT, NEW YORK.

Warren & Wetmore, Architects. Wurts Bros. Photo.



RESIDENCE, IRVING T. BUSH, 28 EAST 64TH ST., NEW YORK.

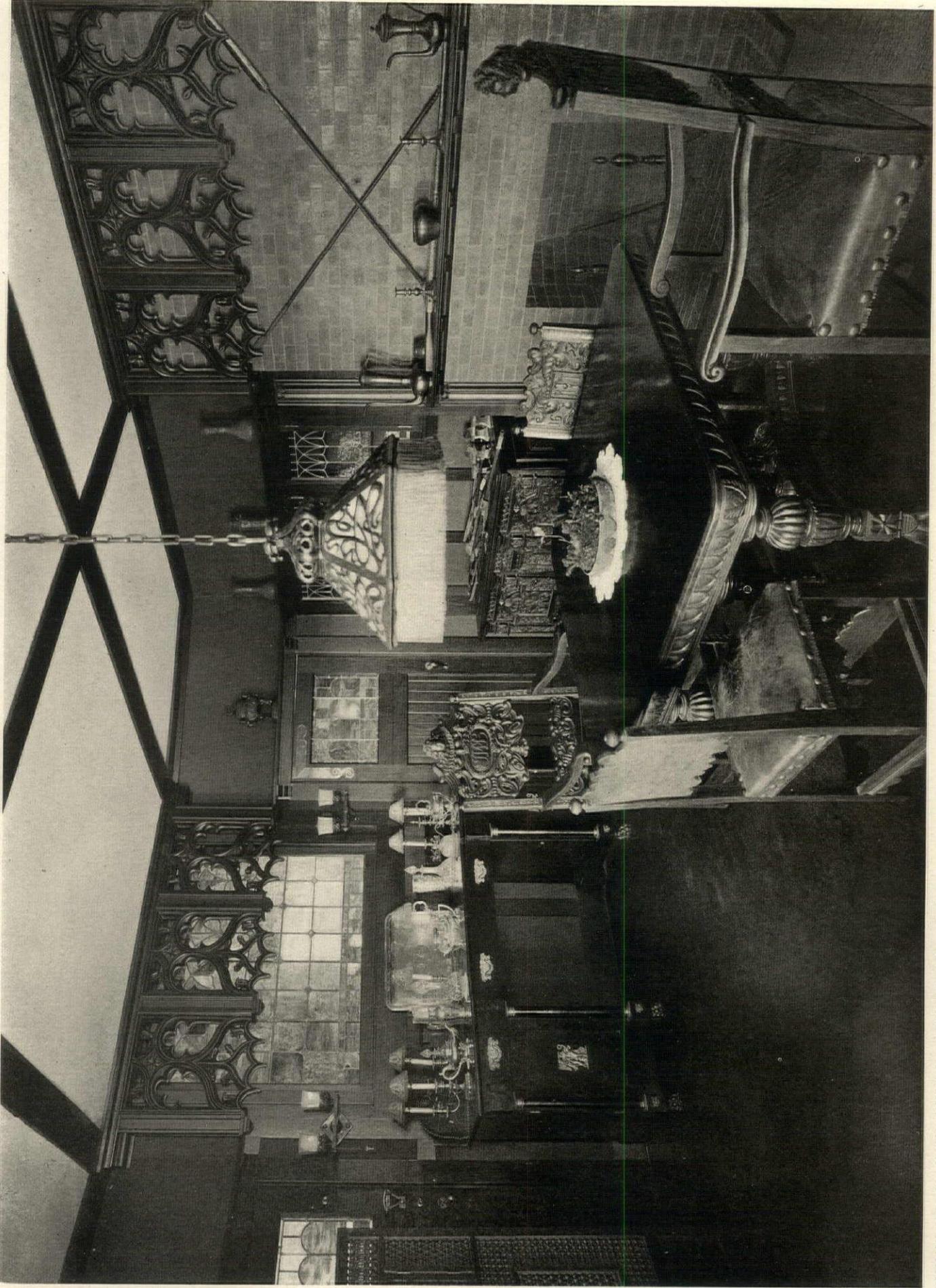
Kirby, Petit & Green, Architects. Wurts Bros. Photo.



JUNE, 1906.

ARCHITECTURE

PLATE XLII.



DINING ROOM, PAUL WILCOX, MONTCLAIR, N. J.

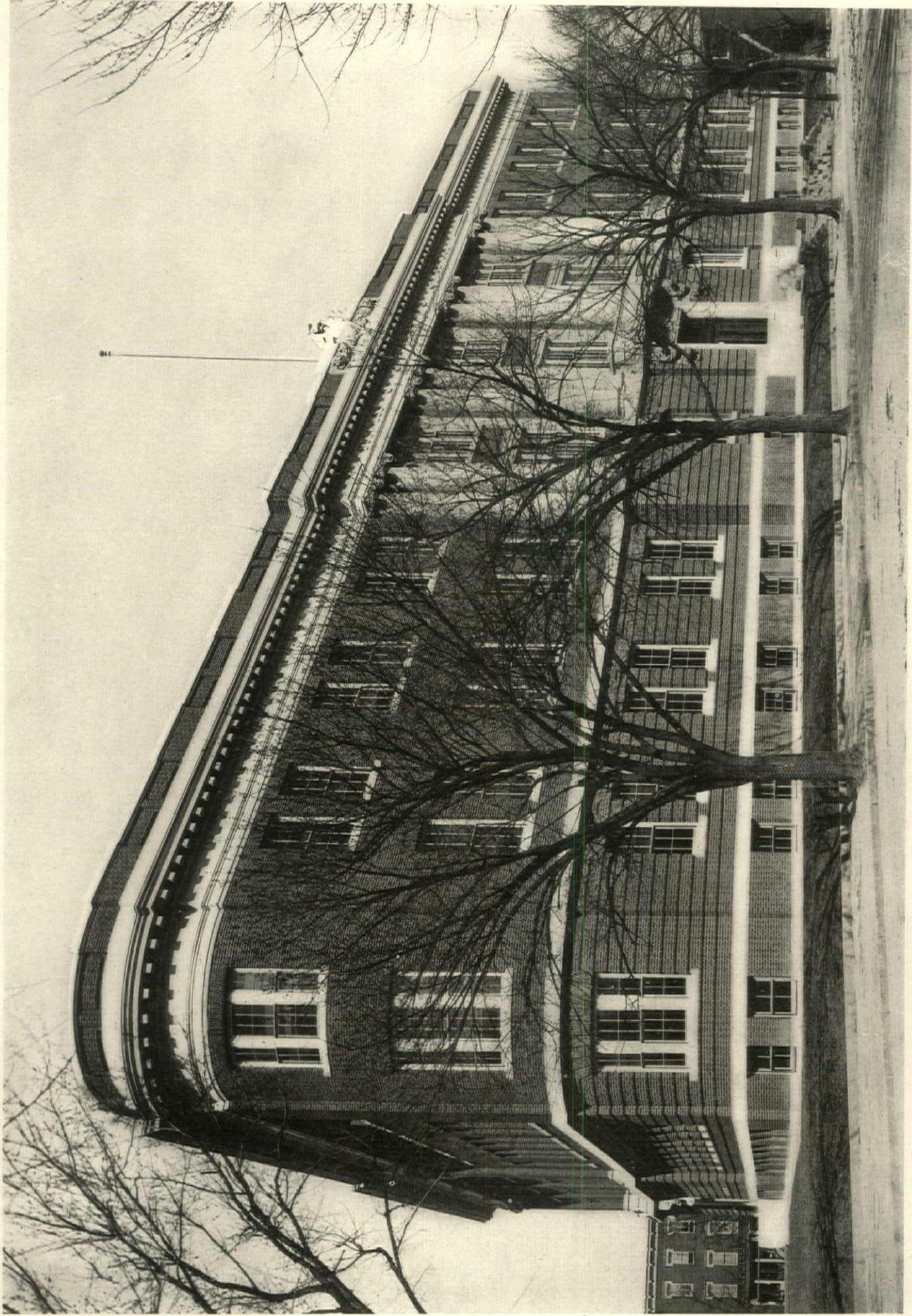
Frank E. Wallis, Architect. Wurts Bros. Photo.



ARCHITECTURE

JUNE, 1906.

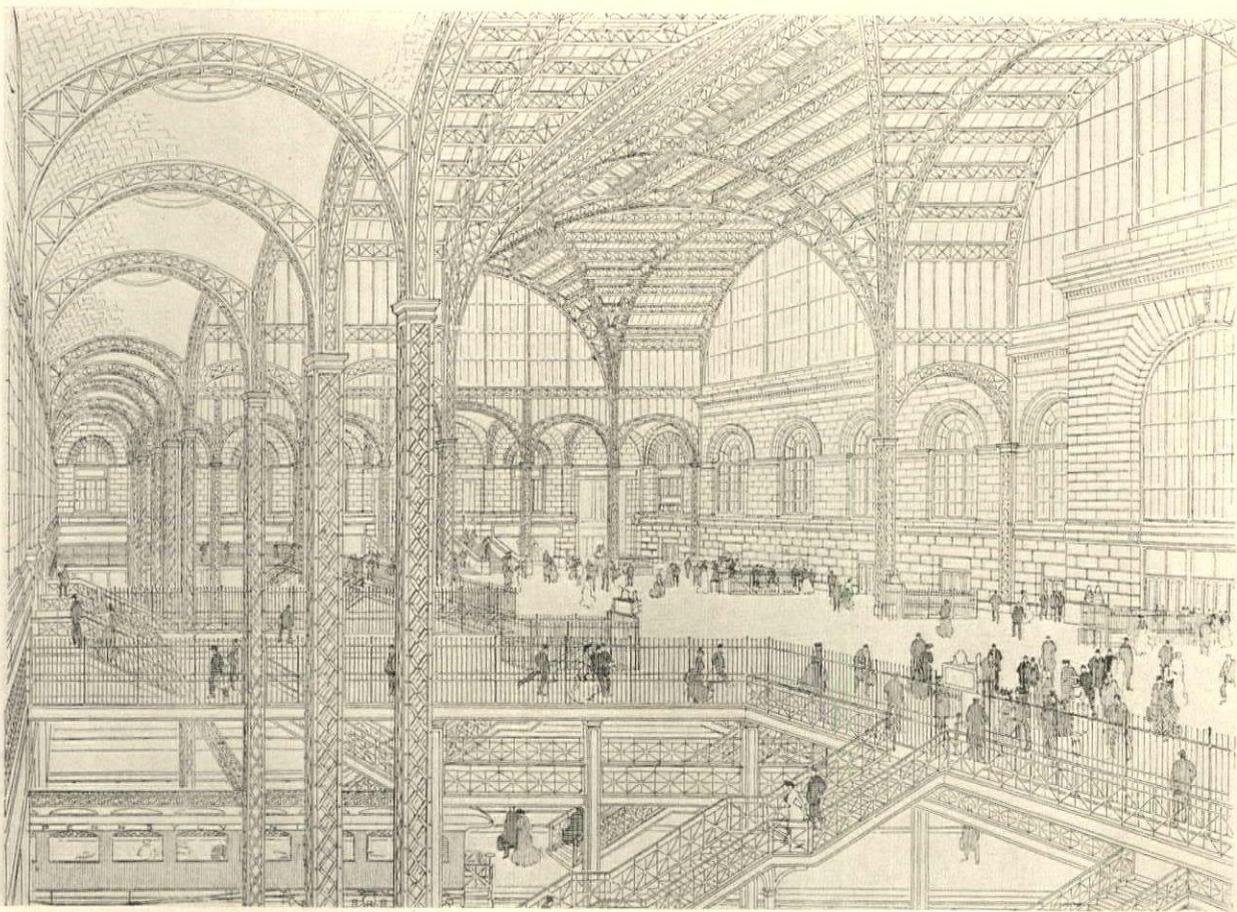
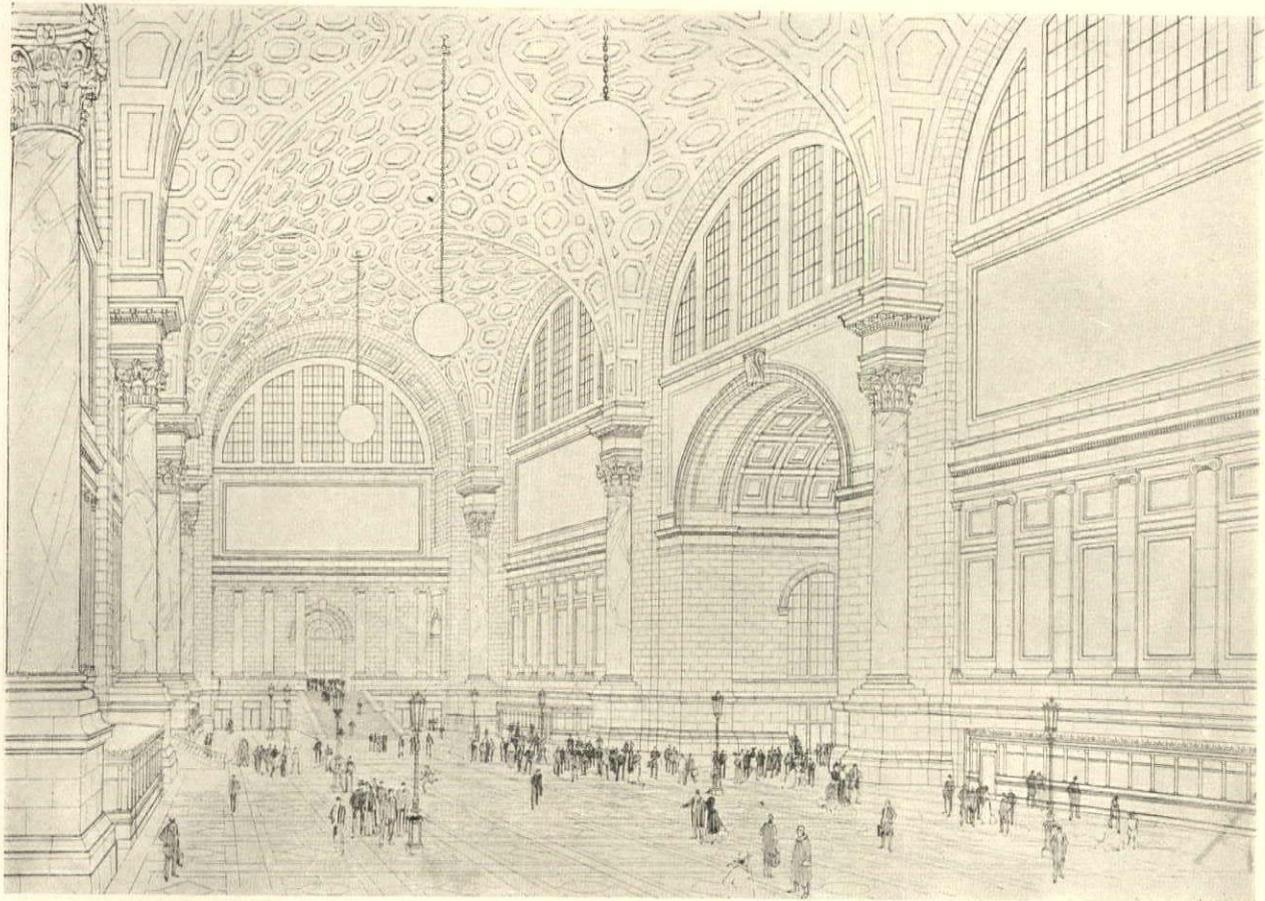
PLATE XLIII.



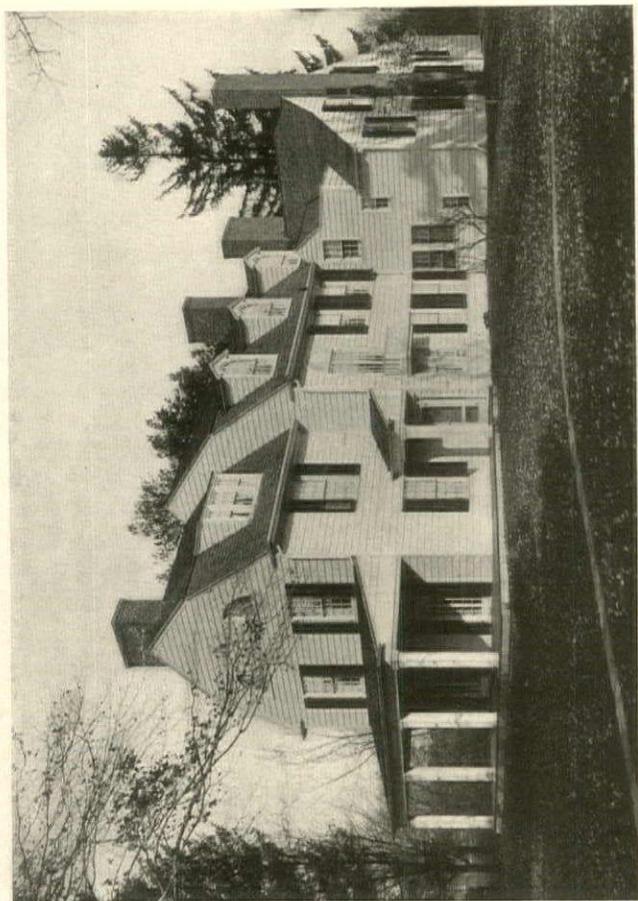
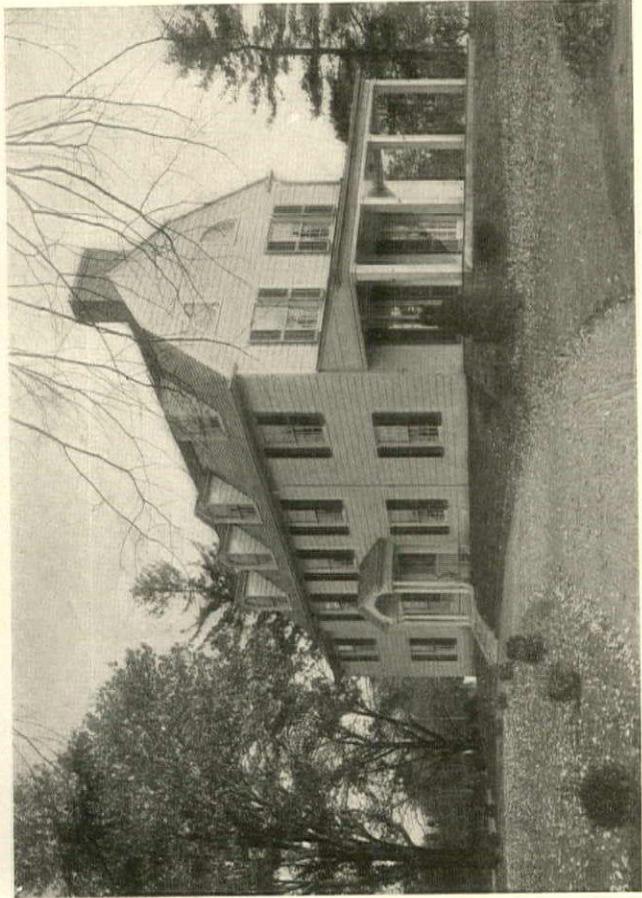
BUSINESS HIGH SCHOOL, WASHINGTON, D. C.

B. Stanley Simmons, Architect.





GENERAL WAITING ROOM, CONCOURSE AND TRACKS, PENNSYLVANIA R. R. STATION, NEW YORK. McKim, Mead & White, Architects.



Tracy & Swartwout, Architects.

COUNTRY HOUSE, A. F. H. STREULI, PLAINFIELD, N. J.

(Continued from page 103)

Note the sweeping condemnation of the Painters' Associations, embracing in one category of denunciation every mixed paint, of every type and kind. Painters who openly boast of their superior success with certain proportions, let us say of zinc and lead, crudely combined in a paint bucket, condemn among mixed paints precisely the same formula ground to uniformity in a paint mill with oil and driers that are necessarily above suspicion; whereas the oil and driers bought by the painter in the open market are generally open to question.

Paint, no matter what its character or composition, will sometimes fail inexplicably. This is true of hand-mixed lead and oil as well as of the most approved brands of ready-mixed paints; but the records of actual service—not isolated records, but the mass of experience all over the country—will show a far higher average of durability (and consequently of economy) for the better grades of ready-mixed paint than for shop-mixed paint. Moreover, the painter, who without evidence of data condemns any ready-mixed paint, simply because it is ready-mixed, is an irresponsible and unsafe adviser.

It is the record and repute of a product that counts in every case where technical standards are lacking. This is peculiarly so with paint. The American Society for Testing Materials is only now endeavoring to gather data regarding the serviceability of the several types of protective paints for steel, and no one of standing has attempted to define the factors governing the service of paints for wood surfaces. Until these standards are determined there will always be more or less floundering; but the records are available, and these records, empirical though they are, and in the hands of interested manufacturers, nevertheless are so abundant and convincing that they leave no room for doubt of the superiority of the better grades of ready-mixed paints over shop-mixed lead and oil.

BOOK REVIEW.

GOthic ARCHITECTURE IN ENGLAND. Francis Bond, M. A. 1906. Imported by Charles Scribner's Sons, New York. Cloth. \$12.00 Net.

The Mediæval Architecture of England commands attention through Mr. Bond's excellent book. It is too true that the subject has been neglected, that the Exhibitions of the Royal Academy are full of the spirit of Rome, of Greece and of Egypt, that immense sums are spent in excavating civilizations in far away countries while great store-houses of art treasure in England lie unstudied—unexplored. The writer hopes to awaken a new interest in Gothic Architecture as preserved in the churches and monasteries and he will have many sympathizers both in England and America among that class of architects who have dared to think outside of the Classic fold. The book should have a wide circulation. It is an analysis of the origin and development of English church architecture from the Norman Conquest to the dissolution of the monasteries. There are 1,254 illustrations, comprising sketches, photographs, measured drawings, sections, diagrams and moldings.

THE MANUFACTURE OF CONCRETE BLOCKS AND THEIR USE IN BUILDING CONSTRUCTION. The Engineering News Publishing Company. New York 1906. Price \$1.50 Net.

The concrete block is an established fact. It has passed the experimental stage and there is a demand for such information as becomes the object of this book to supply. The imperfect development of the concrete block as a building material is admitted. "They are neither so widely used as they might be, nor, where used, do they give the results aesthetically and structurally as they are capable of being made to give. The responsibility for this condition rests partly on the architect who has done little to develop the architectural possibilities of the new material and partly on the block maker who has applied false standards of beauty and utility to his product." This volume is a practical treatise compiled from various papers and abstracts.

The Society of Beaux Arts Architects

INCORPORATED 1894.

WHITNEY WARREN,
President.

D. DESPRADELLES,
Vice-President.

L. E. JALLADE,
178 5th Ave.,
Secretary.



JOSEPH H. HUNT,
Treasurer.

LLOYD WARREN,
3 E. 33d St.

Chairman Committee on
Education.

OFFICIAL ORGAN - - ARCHITECTURE.

CLASS A—PLAN PROBLEM.

A MODEL DAIRY.

(By L. C. Spierling.)

This Model Dairy is to be located in the vicinity of a large city on slightly sloping ground, and near a creek or pond.

The total area not including pasture land shall occupy a surface not to exceed 300 by 500 feet.

The group of buildings constituting this Model Dairy shall consist of—

Two or more Cow Barns, for a hundred cows, with loft for storage of feed. A central passage for wagons is recommended for each barn. This central space to be of sufficient area, and so arranged, to be used partly for wash room, feed mixing room, and to receive the tubes from feed mouths from loft above.

One Silo for each barn and in close and convenient proximity to the barn.

One Milk House to be as far from the barns as possible, but easily accessible, to contain—
a. Bottling room. b. Small sterilizing chamber between bottling and cleaning room.
c. Cleaning room. d. Cold storage room. e. Boiler and engine room.

One Ice House of a capacity of about 500 tons.

One Small Isolation Barn to be as far as possible from the cow barns proper, and near farmer's cottage.

One Stable with boxstalls for horses and bulls, etc.

One Farmer's Cottage to contain besides quarters for farmer's family, a kitchen and common dining room for milkers, helpers, etc.

One Building for fourteen men to contain chambers (2 in each chamber), bath room, w. cs., and living room.

Drawings required:

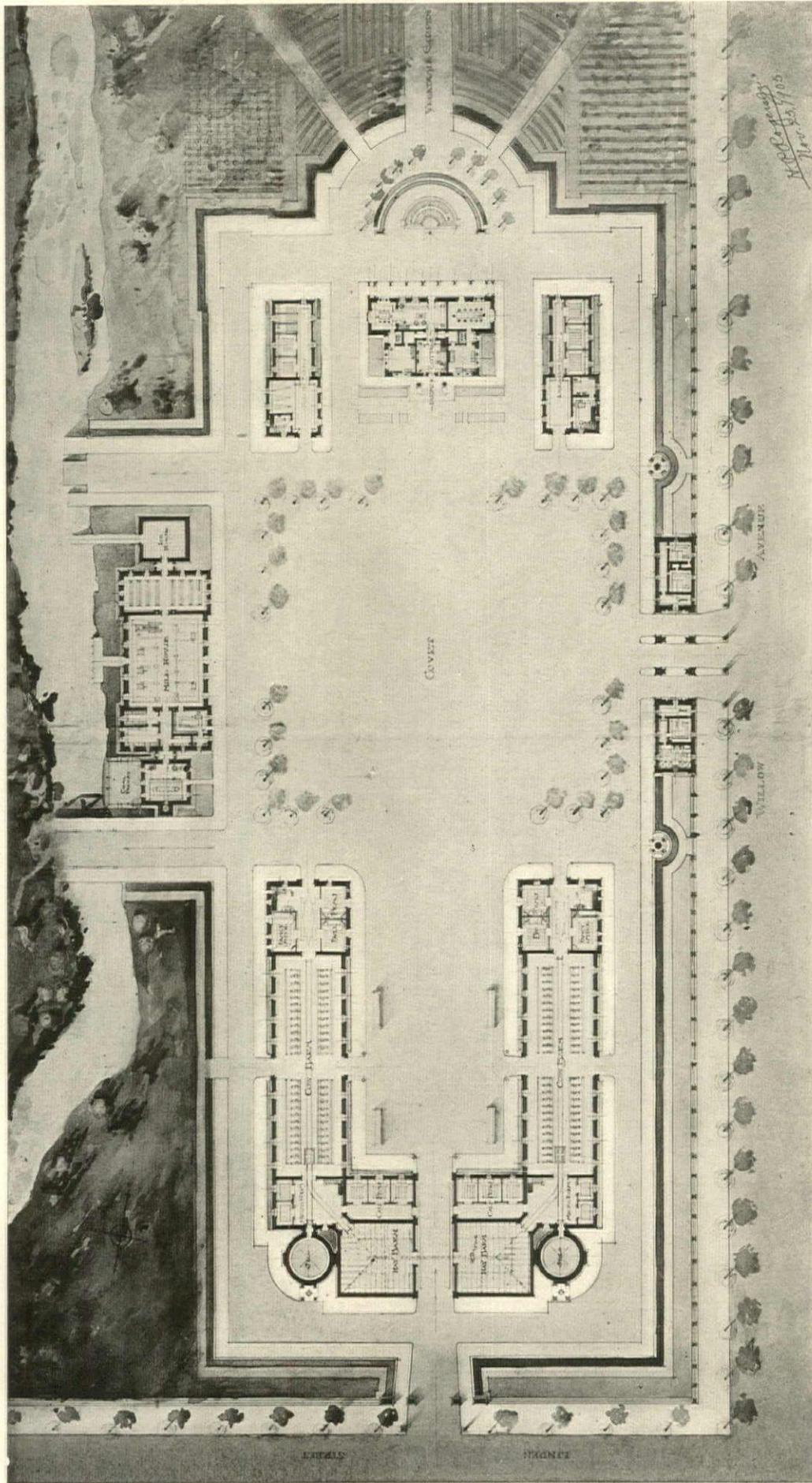
For the esquisse: The plan, longitudinal section, and front elevation at $\frac{1}{32}$ inch scale.

For the rendu: The plan and section at $\frac{1}{16}$ inch scale, and the elevation at $\frac{1}{8}$ inch scale.

REPORT OF JUDGMENT.

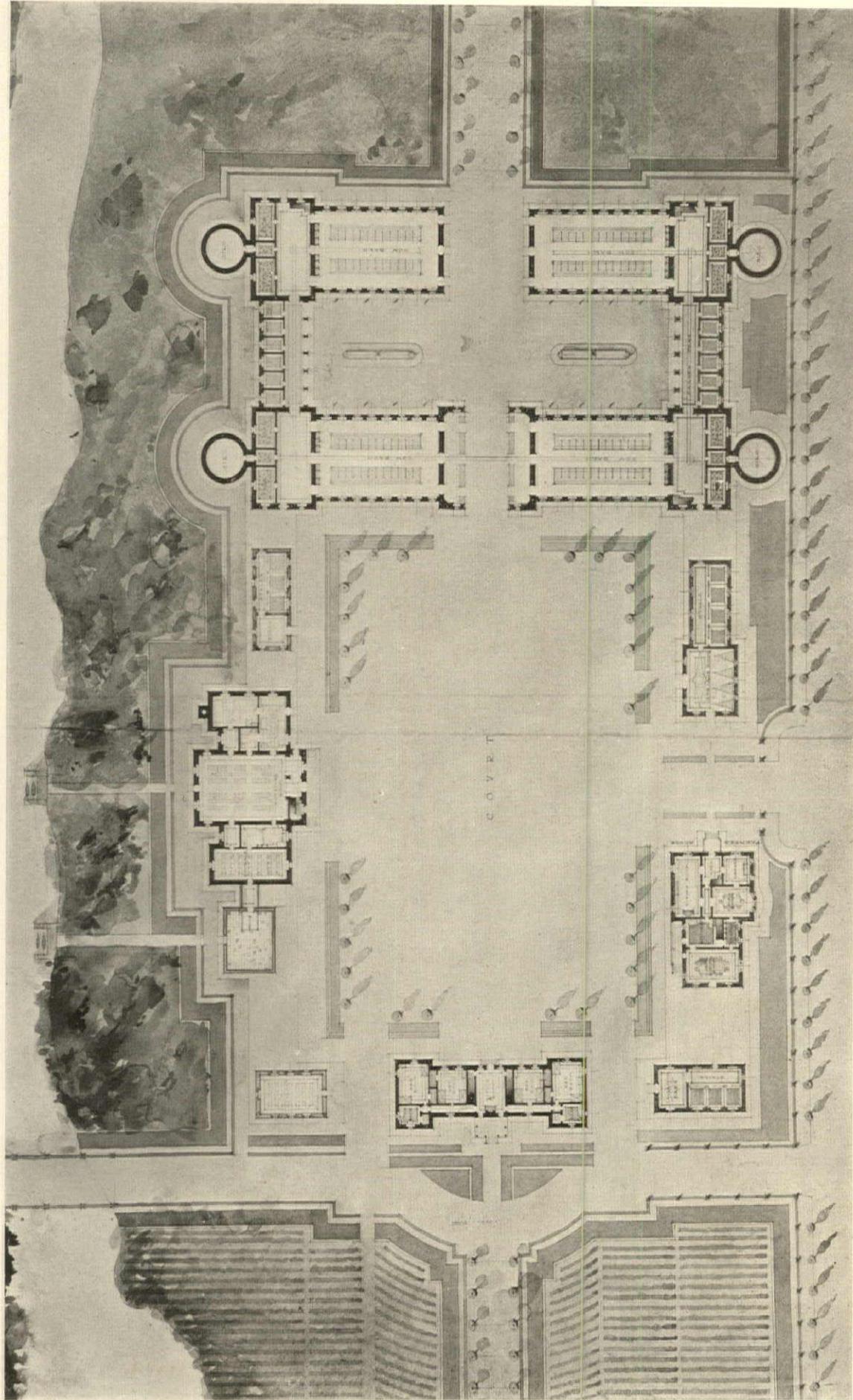
CLASS "A" PLAN PROBLEM. A MODEL DAIRY.

Horton, H. L.	Ithaca	Atelier Cornell Univ.	Mention
Marsh, R. E.	Ithaca	Atelier Cornell Univ.	2d Medal
Tallman, G. C.	Ithaca	Atelier Cornell Univ.	Mention
Rogers, H. P., Jr.	Ithaca	Atelier Cornell Univ.	2d Medal
Trantschold, G. N.	Ithaca	Atelier Cornell Univ.	Mention
Millott, H. C.	Ithaca	Atelier Cornell Univ.	Mention
Brown, W. J.	New York	Atelier Donn Barber	Mention
DeWitt, G. I.	New York	Atelier Donn Barber	Mention
Holland, J. I.	New York	Atelier Hornbostel	Mention
Trout, W. P.	Philadelphia	Atelier Cret	2d Medal
Fenton, W. H.	Philadelphia	Atelier Cret	Mention
Sharpley, W. W.	Philadelphia	Atelier Cret	
Clark, L.	Philadelphia	Atelier Cret	



BEAUX ARTS COMPETITION—A MODEL DAIRY.

11 Medal. H. P. Rogers, Jr., Atelier Cornell University.



II Medal. R. E. Marsh, Atelier Cornell University.

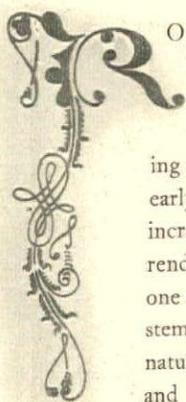
BEAUX ARTS COMPETITION — A MODEL DAIRY.

THE SCHOOLS OF ORNAMENT.*

Copyrighted, 1904—Henry R. Towne.

Gothic

1150 to 1450 A. D. Developed chiefly by ecclesiastical institutions, in cathedral and church building.



ROMANESQUE ornament had no general decline according to our standard, except in certain districts, where a transitional style is noticeable, which was hard, unfeeling, and displeasing as a rule. Generally speaking, it passed into early Gothic which changed to the gradually increasing realism of later Gothic discernible in the rendering of natural forms. The classic acanthus one sees giving way to the natural types of leaf and stem, until oak, ivy, seaweed, or kelp and other natural forms are represented, first conventionally and then in a very realistic way which at last becomes tiresome in its decline and suggestive of the

uselessness of man's competing with nature on her own ground, that is, of attempting to use natural forms with less and less conventionality.

The early Gothic ornament, however, is interesting and exceedingly vigorous. It possesses much of the life of the Romanesque conventionality and straightforwardness, is adaptable to many of our modern needs, and is more refined than Romanesque.

In brief then, we may say of the Gothic that its later characteristics are greater freedom, than in its predecessors,



A Medieval Door Ring.

from conventionality and a greater leaning towards realism until its decay and the dawn of the Renaissance.

The trefoil, quarterfoil, etc., are distinguishing marks of the style, also a certain roundness or convexity of the ends of leaves in trefoils, etc.

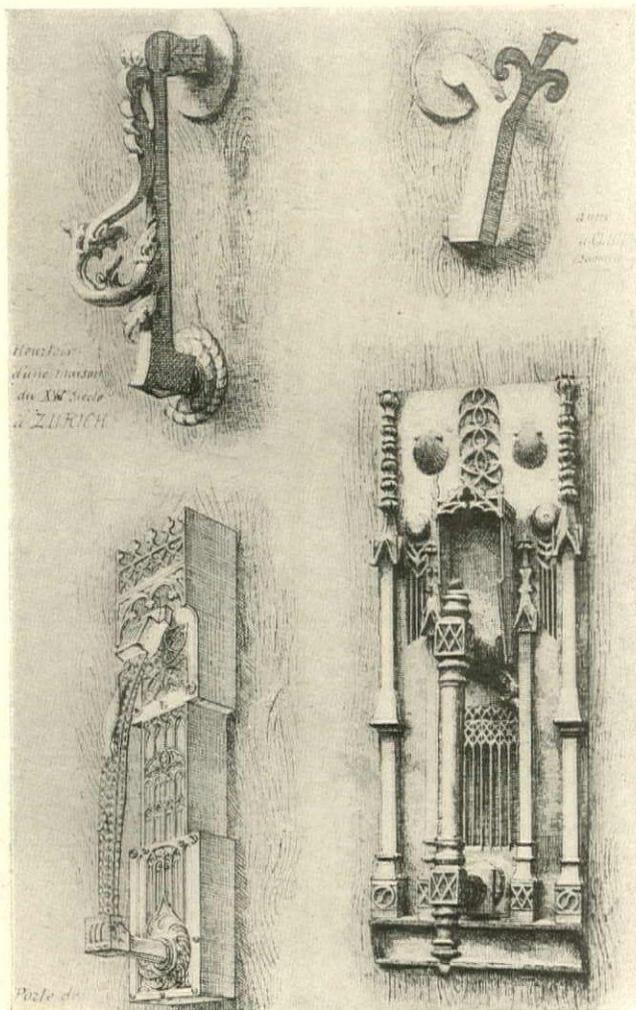
In England, Gothic went through the periods of Early English; Lancet, 1189-1307; Decorated, 1307-1377; Perpendicular, 1377-1485; Tudor, 1485-1546.



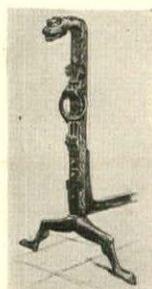
Lockplate.

It is strange that while Gothic architecture went further and further into geometrical niceties of form and construction, its attendant ornament should, in spite of the frequent restraint of geometrical designs, be tending in its use of foliage and stems more and more toward freedom from conventionality or realism, *i. e.* close imitation of nature which in every school proves disastrous.

In Germany the workers of metal became finally such copyists of natural forms as to represent the bark of trees, and sections where the axe had supposedly lopped off the branch. Pure and simple copying acts on the imagination of the designer like opium, killing



Knockers. From Houses in Zurich, Beaune, Cluny and Bourges.



Fire-Dog, Vergy, France.

in the end all traces of life, originality, or inspiration. Design cannot live without the proper use of conventionality which demands of the designer that he must use nature not as a copy book, but study her as a means of filling his mind with her suggestions. An ounce of suggestion in design is worth a pound of realism. While realism demands in its execution a high degree of technical skill it is quite possible for for that skill to be acquired merely by practice and in spite of an almost entire absence of true

artistic feeling. Of course in each century as in the growth of the Renaissance, we find national characteristics changing Gothic ornament in the woodwork of the day, examples of which have come down to us in chests, chairs, wainscots, etc., in the old chateaux and the national museums.

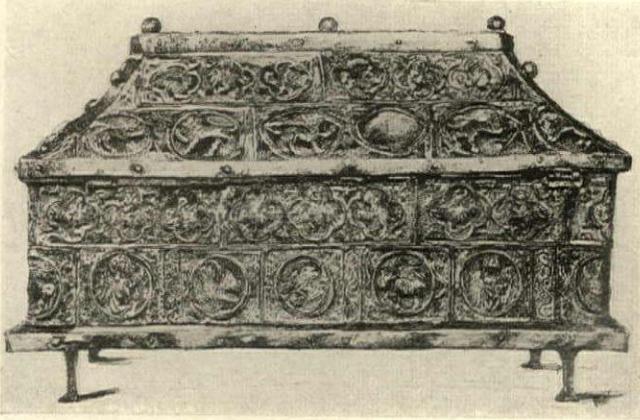
France perhaps more than any other country made Gothic the truest vehicle of national expression, due no doubt to the great admixture of Gothic blood in her people.

Viollet-le-Duc in his Dictionnaire has made of Gothic one of the most remarkable monographs of French architecture and ornament, and no better plea for the logic of both could be made than the interpretation of Gothic which his language and drawings afford. A style which has vitality shows it by its continued existence; when it has



Knocker at Troyes.

* A series of articles written by Mr. William Winthrop Kent, Architect, forming part of "A Treatise on Locks and Builders' Hardware," by Henry R. Towne, President of the Yale & Towne Mfg. Co., and Past President of the American Society of Mechanical Engineers. This book is profusely illustrated and contains more than 1100 pages, 4x6 1/2." John Wiley & Sons, Publishers. Price, \$3.00. It is the intention of the publishers of ARCHITECTURE to reprint one school in each number.



Reliquary. XIII Century. German Museum, Nuremberg.

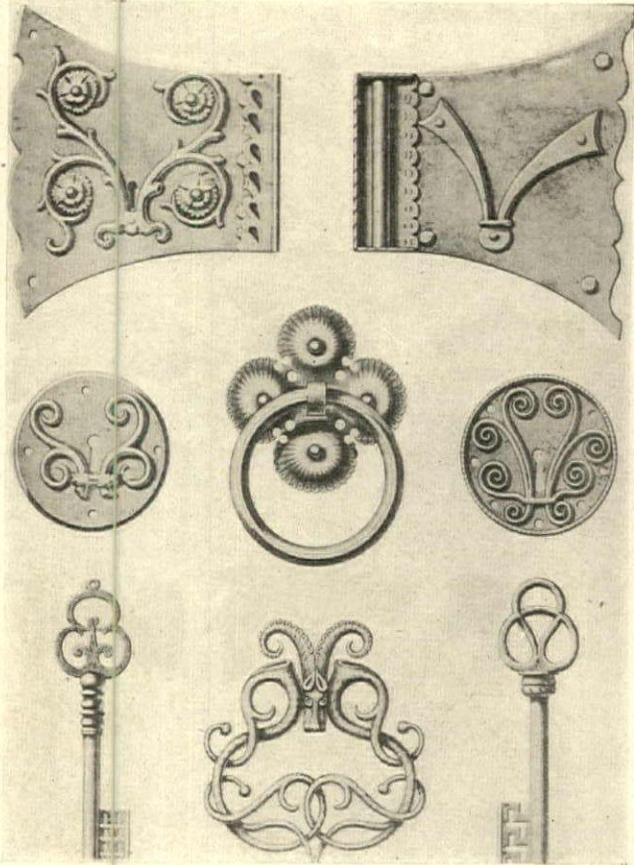
reached its highest plane it must necessarily give way, and the true spirit of Gothic art is dead and has been ever since the Middle Ages. Mysticism produced it, science killed it.

But although the old Gothic spirit died after the invention of printing, and most of the work done as Gothic since then, was designed really in reminiscence and love of the departed school, yet we still see it affecting the art of our own day. In *l'Art Nouveau* we find a very decided Gothic suggestion that we are inclined to believe that in this direction lies the greater possibilities of this new school. It seems as if the long swerving lines suggestive of stem growth were common to both. If this is



Knocker, XV Century, French.

true it bears out what we notice in German Renaissance that if the efforts of the early artists to follow the best and most imaginative of the Gothic ornaments had been followed up by the later designers,



Mediæval Hardware.

a stronger school than the Renaissance would have arisen. Of course this is mere speculation, but, perhaps, not wholly idle.

THE Private Branch Exchange System of supplying TELEPHONE SERVICE is particularly adapted to the requirements of LARGE HOTELS and APARTMENT HOUSES.

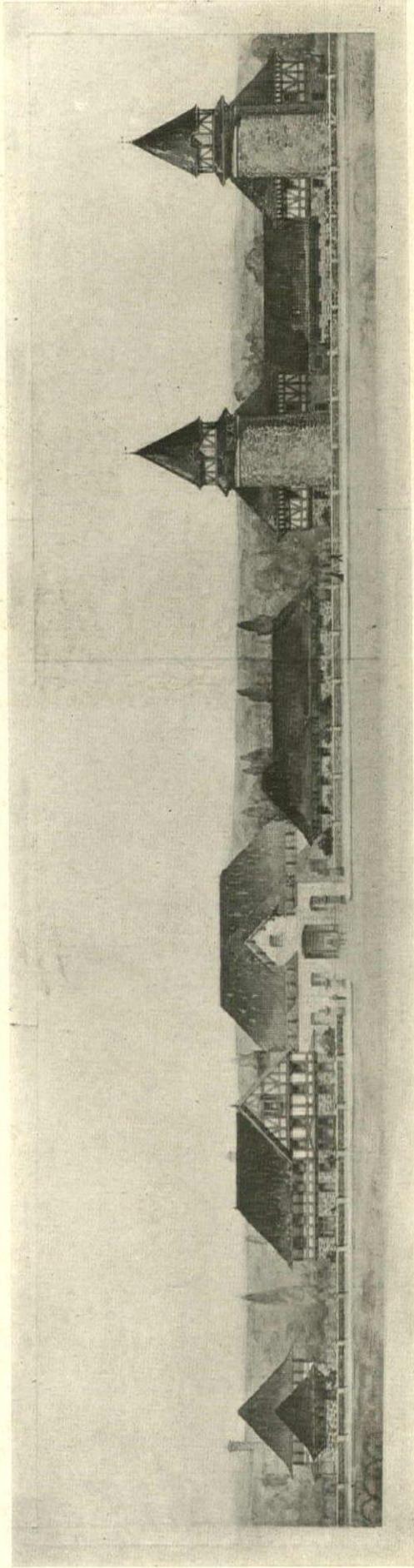
By means of a Private Branch Exchange the general telephone service, local, suburban and long distance, is available in every room and apartment. A complete interior service is also supplied, adding largely to the efficiency and decreasing the cost of the hotel service proper. No modern Hotel or Apartment House should lack a

Private Branch Telephone Exchange.

Full information on request at any of the Contract Offices:

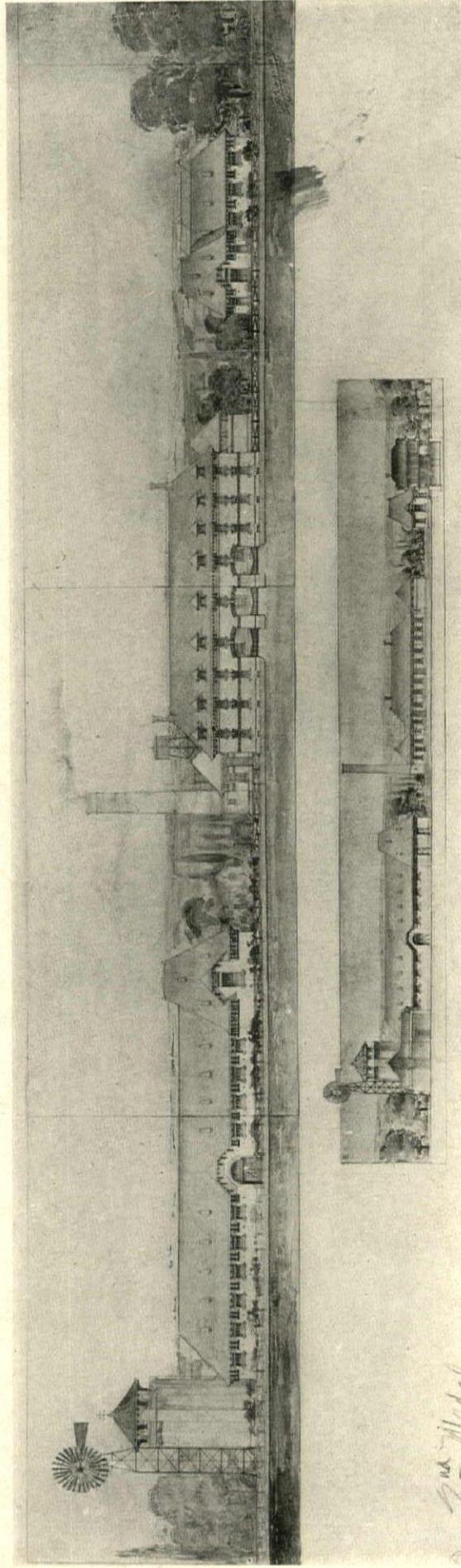
15 Dey St. 111 West 38th St. 220 West 124th St.

NEW YORK TELEPHONE CO.



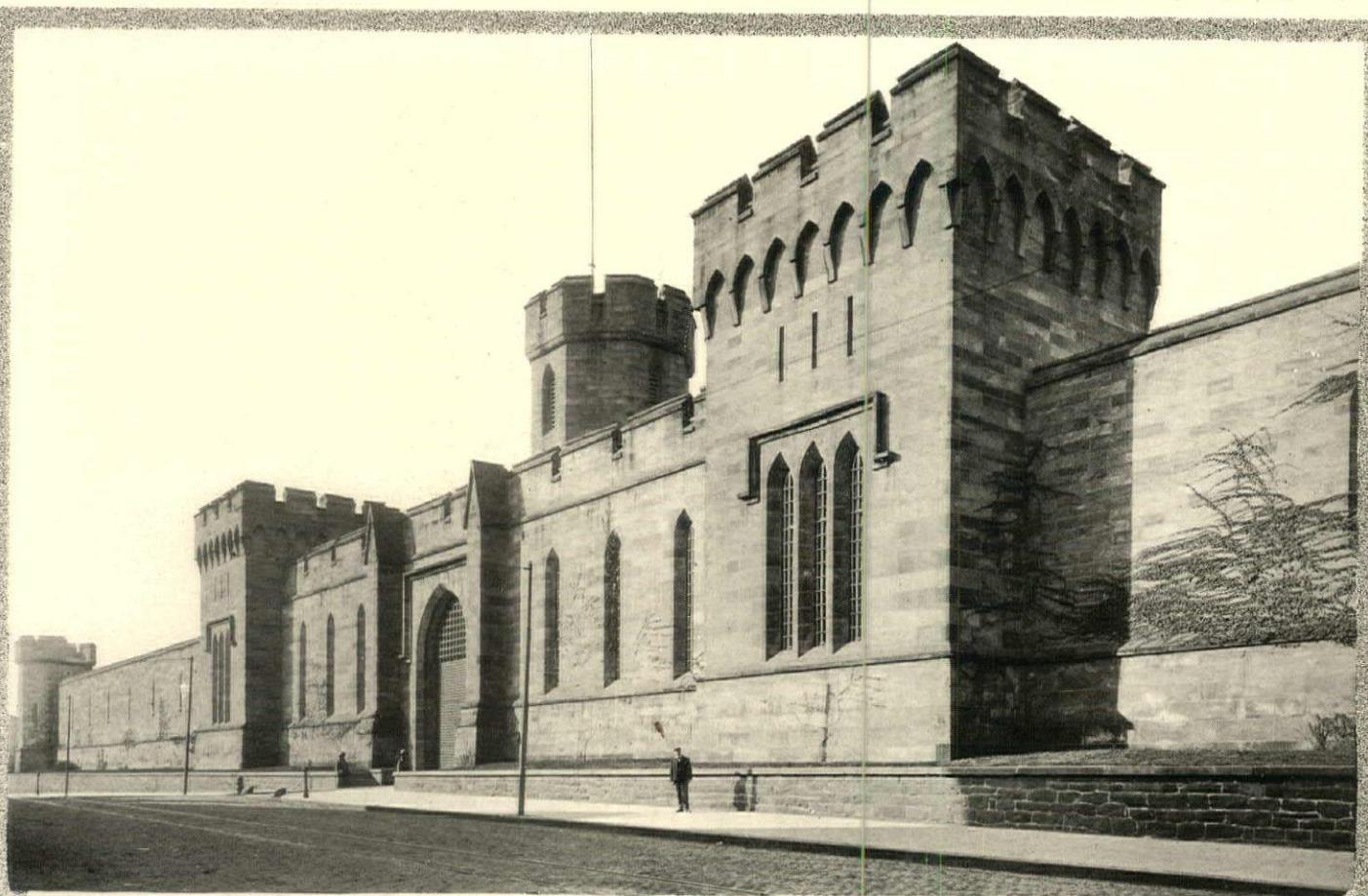
II Medal.

R. E. Marsh, Atelier Cornell University.



II Medal.

H. P. Rogers, Jr., Atelier Cornell University.



Serving a Long Term

Penitentiary Buildings Roofed with "Taylor Old Style" Tin

"Taylor Old Style" tin is serving what will in all probability be a life sentence on the roofs of many of the Pennsylvania State penitentiary buildings. On the older buildings it has been giving good service for over twenty-five years and subsequent roofing needs have invariably been taken care of with "Taylor Old Style" tin.

In securing a fitting roof for substantial and enduring structures no better selection could have been made.

The building of the Peters Hardware Company of Emporia, Kansas, built in 1870, is still wearing its roof of "Taylor Old Style" tin put on at that time. Although this roof has been subjected to unusually severe treatment, its thirty-six years of exposure has not affected its usefulness.

No other roofing material of any kind can present such proof of its durability. Our free booklet, "A GUIDE TO GOOD ROOFS," explains why "Taylor Old Style" can.



N. & G. TAYLOR COMPANY

Established 1810

Philadelphia

GARDEN CITY COMPANY COMPETITION.

GARDEN CITY, L. I., a beautiful suburban town on the Hempstead plains, nineteen miles from New York and about midway between the Ocean and Long Island Sound, is so well known as hardly to need description. The town was founded, and its development begun, by the late A. T. Stuart. It was laid out with wide avenues, large parked areas and a wealth of foliage and shrubbery. It contains the fine cathedral and church of the diocese of Long Island, St. Paul's school for boys and St. Mary's school for girls, the popular Garden City Hotel and the links of the Garden Golf Club.

The extensive improvements in transportation facilities undertaken by the Pennsylvania Railroad has awakened a new interest in the Long Island suburban towns as residential centers, and in response to this demand the Garden City Company is about to undertake further development of its extensive holdings, and to this end has instituted an architectural competition in the hope that the younger members, at least, of the architectural profession may be interested to develop a type of suburban house design of moderate cost which will combine beauty of design with economy of construction and maintenance. It has appointed a committee consisting of Mr. Allen Evarts, President of the Garden City Company; Mr. William R. Mead, Architect, of the firm of McKim, Mead & White, and Mr. Dean Alvord, real estate expert, who will conduct the competition and make the award. All designs are to be in the hands of the committee by August first, 1906. The program of the competition may be obtained on application to the Garden City Company, 60 Wall Street, New York.

The property in question consists of two tracts, each 112 feet by 1,200 feet lying on either side of a street 52 feet wide. Two schemes of development are under consideration, one calling for the building of single detached houses to cost \$7,000 each, and the other for double houses of \$12,500 cost. For each scheme, a first prize of \$1,000 and a second prize of \$500 is offered, and, in addition, ten prizes of \$100 each will be awarded to the next ten designs whether of the single or double houses. The authors of the first and second prize designs are required to furnish complete working drawings, details and specifications of their designs, and in case the Company shall decide to carry out any of the designs to which the \$100 prizes are awarded, it agrees to employ the authors of such designs to furnish working drawings and specifications upon the additional payment of a sum, which, together with the \$100 prize award, shall equal three per cent. of the cost of the building. The drawings required are a block plan, a block elevation, plans, elevations, and section of one unit and an additional sheet to contain a perspective sketch, details or any other matter which the designer may wish to present, and rendered at his option.

NEW YORK SKYSCRAPERS.

IT has long been apparent that nothing will limit the construction of skyscrapers on the lower end of New York except the failure of light for their offices. If every foot of the ground on Broadway below Chambers street could be built upon with structures thirty stories high, there can be no doubt that tenants could be found without any particular difficulty for all the rooms that they would contain. Perhaps it would be practicable thus to line Broadway with nothing but skyscrapers; but it would not be possible to spread them everywhere else, for the simple reason that they would in many cases completely shut out each other's light, as they have begun to do

(Continued page xxiv)



HOTEL CADILLAC; EST. OGDEN GOELET, 43D ST., NEW YORK.
Hugo Kafka & Son, Architects.

THE ELECTRIC WORK BY
M. B. FOSTER
ELECTRIC COMPANY

CONTRACTORS FOR

ELECTRIC LIGHT
AND
POWER INSTALLATIONS

Old South Building
BOSTON

Fuller Building
NEW YORK

Cabot's Shingle Stains

Distinguishable from all others by their clear, fresh coloring effects and their durability. No muddy or tawdry colors, no washing off, no blackening. Every gallon guaranteed.

SAMUEL CABOT
Sole Manufacturer

Boston, Mass.
28 Dearborn Avenue, Chicago



Gay & Proctor, Architects, Boston, Mass.

The Only Wood Preserving Stains

No other stains are made of Creosote, "the best wood preservative known." Acknowledged as the standard of shingle-stain excellence—especially by our imitators.

BOSTON, MASS.

Samples and full details on request

12 Wooster Street, New York
27 New Montgomery St., San Francisco

LUXFER SIDEWALK LIGHTS

In Reinforced Concrete Setting

BEST FOR BASEMENT LIGHTING

LUXFER PRISM TILE

No Iron Frames No Rusting

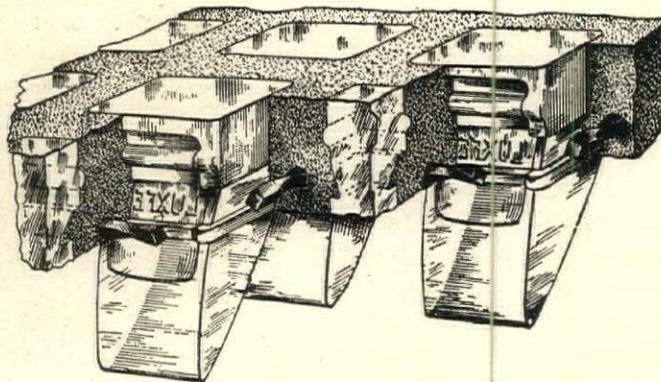
Waterproof and Free
From Condensation

LUXFER BLANK TILE

All Steel Imbedded in Cement

**GREAT
STRENGTH
and
DURABILITY**

Note the twisted
TENSION RODS
shown in illustration



RANSOME SYSTEM

**LUXFER PRISMS
in Reinforced
Concrete Setting
Have No
Equal**

Architects and Engineers are
agreed upon the EXCELLENCE
of this work.

AMERICAN LUXFER PRISM COMPANY

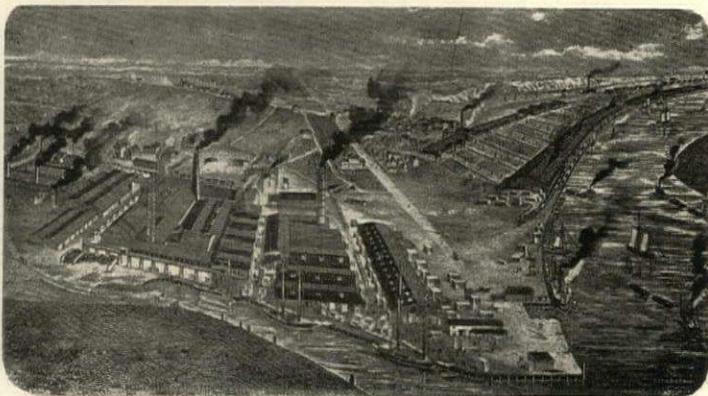
160 Fifth Ave.
NEW YORK

Heyworth Bldg.
CHICAGO

Garfield Bldg.
CLEVELAND

15 Federal St.
BOSTON

New York Life Bldg.
KANSAS CITY



WORKS: SAYREVILLE, N. J., ON THE RARITAN RIVER.

SAYRE & FISHER CO.

Manufacturers of

FINE PRESSED FRONT BRICK

Of Various Shades Plain and Moulded. Also

SUPERIOR ENAMELED BRICK
(SEVERAL COLORS)

Hard Building Brick, Fire Brick and Hollow Brick.

JAS. R. SAYRE, JR. & CO., Agents,
Office: 207 Broadway, Cor. Fulton St., New York.

(Continued from page xxii)

already. Two or three hundred totally dark rooms in one building could hardly be regarded as a valuable asset, says the *Mail*.

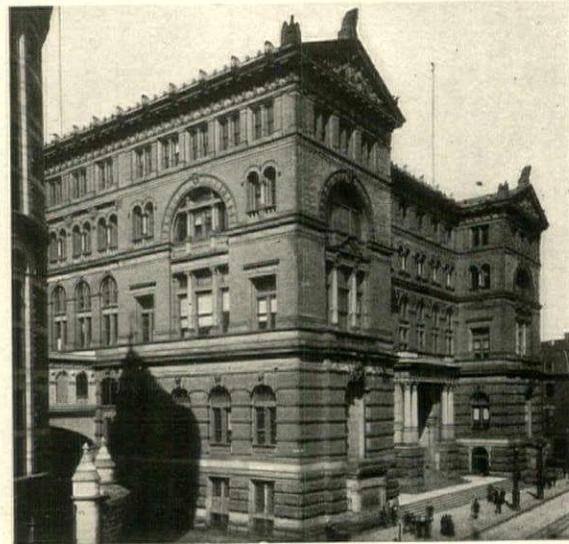
In any case, however, it is evident that the time has not yet come to get out an architectural edition of "The Light that Failed." More skyscrapers are now building or have been arranged for south of Fulton street than ever were under way before. Fifteen new great office buildings, some of which are loftier and more magnificent than any yet built, are now provided for, and every one has a fair show for sufficient light for its rooms. One of these buildings is to be forty stories high, and another thirty. Several of them will be twenty-five or more stories high. The lowest one of the lot is twenty stories.

We know that their two and a half millions of square feet of rentable space will be called for as the result of the city's dizzy growth in population and volume of business. There is no question about that. But the question, how they will affect the appearance of the city, is open to discussion. Artists and disinterested architects agree that the city is not beautiful now, as viewed from the water. The irregularity of the skyline is too great. It is a jagged outline. Viewed from the street, lower Broadway is staggering rather than beautiful. It has all been built without coherent design, it is all hit or miss, higgledy-piggledy. It is like a field of stumps all hacked off at unequal heights by boyish triflers with the woodcutter's art.

We may be sure, however, that the fifteen new tall buildings now provided for will not make things any worse. Very likely the filling up of the gaps will improve matters by producing a better effect of mass. The city will look more like a range of mountains, and less like a stump lot.

MODERN BUILDING PROBLEMS.

MODERN building problems often imply a departure from old methods and types—a very hard task for those in the profession who have been schooled in the traditions of the past. The elderly practitioner probably finds it very difficult to unlearn a good deal of what he has acquired, and to bring himself to the condition of a beginner. It means a greater effort on his part to acquire new facts and data, and to set to work on lines he is quite unacquainted with; whereas to the younger man in the profession, a departure from an old type is much less troublesome, the earlier plans having less hold on his mind, and he is better able to shake them off and to acquire new methods and ideas. There are many structures for which the architect cannot find a prototype, which have been evolved by circumstances distinct from those which previously existed. It will not be denied that some of these structures belong mainly to the engineering class, and can never be made architectural, or be placed in the same category as the monumental building for residential or public purposes; that, in fact, such buildings as the engine-house, or the central power station for electrical traction, belong to a class of building derived from the shed type; yet though their origin has been of the humblest or most utilitarian kind, they may in course of time develop into structures of a more imposing and dignified class. We have instances in every age of buildings which began in a humble way—of very simple type becoming more complex. Even the Roman basilica was a simple structure before it began to assume the plan and proportions of the Christian church or one of our Mediæval cathedrals. The Greek and Roman villas began in a very simple structure. Improvements in machinery and electric plants may lead, in the course of time, to a modification of the plan or section of structures of this class, so that we have no right to assume that the utilitarian building in its simple and intractable form will always remain so.



CRIMINAL COURT BUILDING, NEW YORK.

Heated and Ventilated by
Recently Installed
BUFFALO FAN SYSTEM
Engineers to Furnish Complete Data
Buffalo Forge Company
BUFFALO, N. Y.
New York Branch: 39 Cortlandt Street
Phone 7835 Cortlandt

LIGNI-SALVOR



HOUSE AT LAKE PARADOX.

H. A. Jacobs and M. G. Heidelberg, Architects.

LIGNI-SALVOR, Best Wood Preserver.

is of a bright nut brown color, which is very attractive, and produces a decidedly agreeable effect. It soaks into the wood readily, leaves the pores open, permitting no dry rot to occur, as is the case where paint or similar substances are used. It prevents rot or decay in wood exposed to moisture or climatic changes and lengthens the life of the wood. Combining serviceability and beauty, it is largely specified by leading architects on private dwellings, churches, posts, porches, half timber work, shingles, verandahs, railroad depots and sheds, hospitals, stables, boathouses and wooden structures of all kinds and descriptions. Wood to be preserved can either be dipped or soaked in it (shingles, etc.) or it may be applied with an ordinary paint brush, same as paint. It should be applied *thoroughly*—three coats are recommended. Covering capacity per gallon, about 300 to 350 square feet of dressed lumber. For samples and further particulars apply to

WILLIAM MENZEL & SON, SOLE AGENTS

Also Eastern Agents for E. & S. MARBLE ENAMEL PAINT
and E. & S. COMPOUND ELASTIC IRON PAINT.

68 Broad Street, NEW YORK.



FIRST GROUP OF BUILDINGS, CARNEGIE TECHNICAL SCHOOLS, PITTSBURGH.

Palmer & Hornbostel, Architects.

WELLS BROTHERS COMPANY

OF NEW YORK

BUILDING CONTRACTORS

160 FIFTH AVENUE

NEW YORK CITY

CHICAGO

BOSTON

BALTIMORE

PAINT—GOOD PAINT—serves a dual purpose. It preserves and beautifies. It preserves simply by excluding "the weather"; it beautifies by tint and color. The longer it excludes "the weather", the longer it retains its original tint and color, the better is the paint.

Paints based on **Oxide of Zinc** remain longer impervious than other paints and they retain their pure tones long after other paints have faded or darkened.

FREE—Our Practical Pamphlets—
 "The Paint Question."
 "Paints in Architecture."
 "Specifications for Architects."
 "French Government Decrees."
 "Paint: Why, How and When."

The New Jersey Zinc Co.
 71 BROADWAY
 NEW YORK

We do not grind Zinc in Oil. A list of manufacturers of Oxide of Zinc Paints will be furnished on application.

A DAY WELL SPENT

3UNE is the time to see the magnificent Gold Medal Collection of **80,000 PEONIES** and **40,000 HARDY RHODODENDRONS** in full bloom at the **COTTAGE GARDENS NURSERIES** QUEENS, LONG ISLAND

Queens is reached by all Long Island Electric trains from Brooklyn, also Garden City and Hempstead trains from Long Island City.
 Call Long Distance Phone, 91 L. Jamaica, and conveyance will meet any train.

FRANCIS BROS. & JELLETT, Inc.

47 East 18th Street, NEW YORK
 Cor. Broad and Wallace Streets, PHILADELPHIA

Contractors for the Erection of Steam and Hot Water Heating and Ventilating Systems and all branches of Electric Wiring in the better class of buildings; also Steam and Electric Power Plants and Automatic Sprinkler Installation.

We refer to leading Architects in New York and Philadelphia



Butcher's Boston Polish

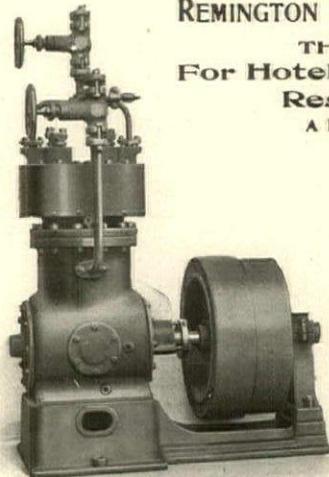
Is the best finish made for FLOORS, Interior Woodwork and Furniture
 Not brittle; will neither scratch nor deface, like shellac or varnish. It is not soft and sticky, like beeswax. Perfectly transparent, preserving the natural color and beauty of the wood. Without doubt the most economical and satisfactory POLISH known for HARDWOOD FLOORS.

For Sale by Dealers in Paints, Hardware and House-Furnishings
 SEND FOR OUR FREE BOOKLET TELLING OF THE MANY ADVANTAGES OF BUTCHER'S BOSTON POLISH

THE BUTCHER POLISH CO., 356 Atlantic Ave., Boston, Mass.

OUR No. 3 REVIVER is a superior finish for kitchen and piazza floors

REMINGTON REFRIGERATING MACHINES
 THE STANDARD
 For Hotels, Hospitals, Clubs, Residences, Etc.



A Few Prominent Users:

- New Willard Hotel, Washington, D.C.
- Washington Heights Apartment House, Washington, D. C.
- Hampton Terrace Hotel, North Augusta, S. C.
- Homestead Hotel, Hot Springs, Va.
- Danvers Insane Hospital, Danvers, Mass.
- Penn. State Col., State College, Pa.
- New Cadet Quarters, Annapolis, Md.
- Widener's Memorial Industrial Training School, Philadelphia, Pa.
- University of Pennsylvania, Phila.
- City Hospital, Worcester, Mass.

Catalogue and Reference List on Application.

REMINGTON MACHINE CO.
 WILMINGTON, DEL.

THE NORTHWESTERN
 TERRA COTTA CO.

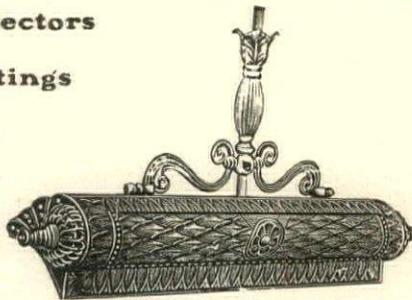
MANUFACTURERS OF HIGH GRADE

ARCHITECTURAL
TERRA COTTA

CHICAGO :: ILLINOIS

Picture Lighting

Special Reflectors for Single Paintings
 also
Continuous Reflectors for Galleries



I. P. Frink, 551 Pearl St., New York

THE NIAGARA HYDRAULIC RAM

Is adaptable wherever running water is found. Pumps without power other than the water itself.

NO COST FOR FUEL.

Will pump day and night without cost, furnishing a constant supply of running water.

Will raise water 35 feet for every foot fall.

Catalog Free



NIAGARA HYDRAULIC ENGINE CO. 140 Nassau St., New York



THE NIGHT AND DAY BANK BUILDING, 527 FIFTH AVE., NEW YORK.
Henry Ives Cobb, Architect.

HEDDEN CONSTRUCTION COMPANY

BUILDERS

1 MADISON AVENUE

METROPOLITAN LIFE BUILDING

NEW YORK, N. Y.

TORONTO, CANADA.
BINGHAMTON, N. Y.

ESTABLISHED 1850
INCORPORATED 1902

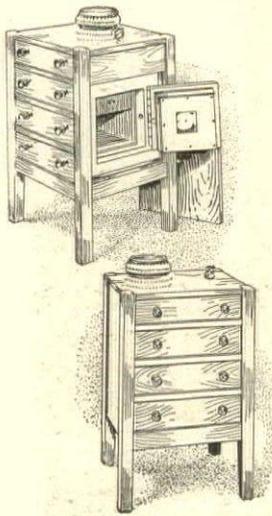
FACTORY
NEWARK, N. J.

ARCHITECTS AND BUILDERS

Will best serve their clients and do credit to themselves by specifying our Fire and Burglar Proof Safes and Vaults in their buildings.

Herring - Hall - Marvin SAFES AND VAULTS

are the best that the most skilled workmen, using the finest materials obtainable, can produce. Designs, plans, and estimates furnished free upon application. "Safecraft" catalogue shows special safes inclosed in high grade furniture.



HERRING-HALL-MARVIN SAFE CO.,

MAKERS OF SAFES FOR ALL PURPOSES

400 BROADWAY :: :: NEW YORK

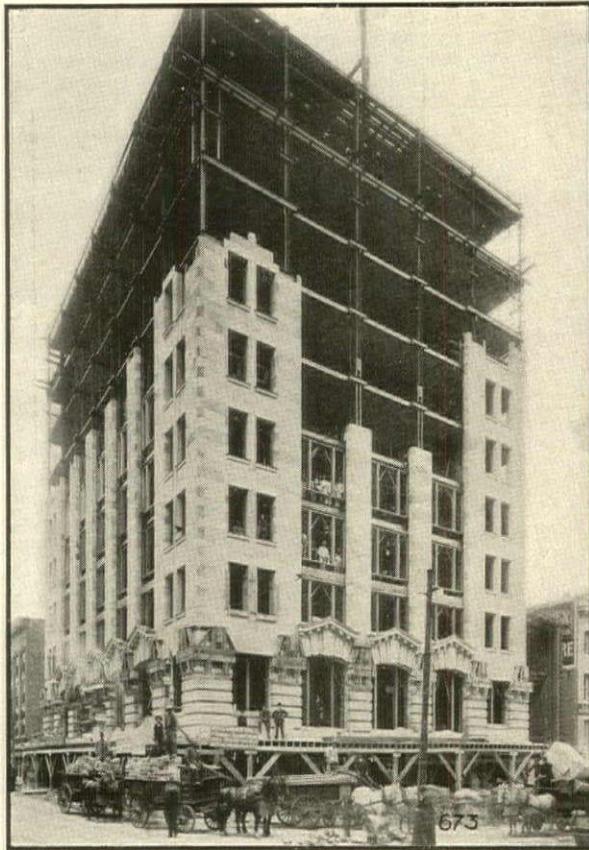
Telephone: 3093 Franklin Cable Address: "Fireproof," New York

Lake and Dearborn Sts., Chicago 706 Washington Ave., St. Louis

627 Chestnut St., Philadelphia 605 Market St., San Francisco

Main Works: Hamilton, O. Branch Factory: New York

Gerber-Carlisle Company, Agents for Mexico,
Mexico City, Mexico.



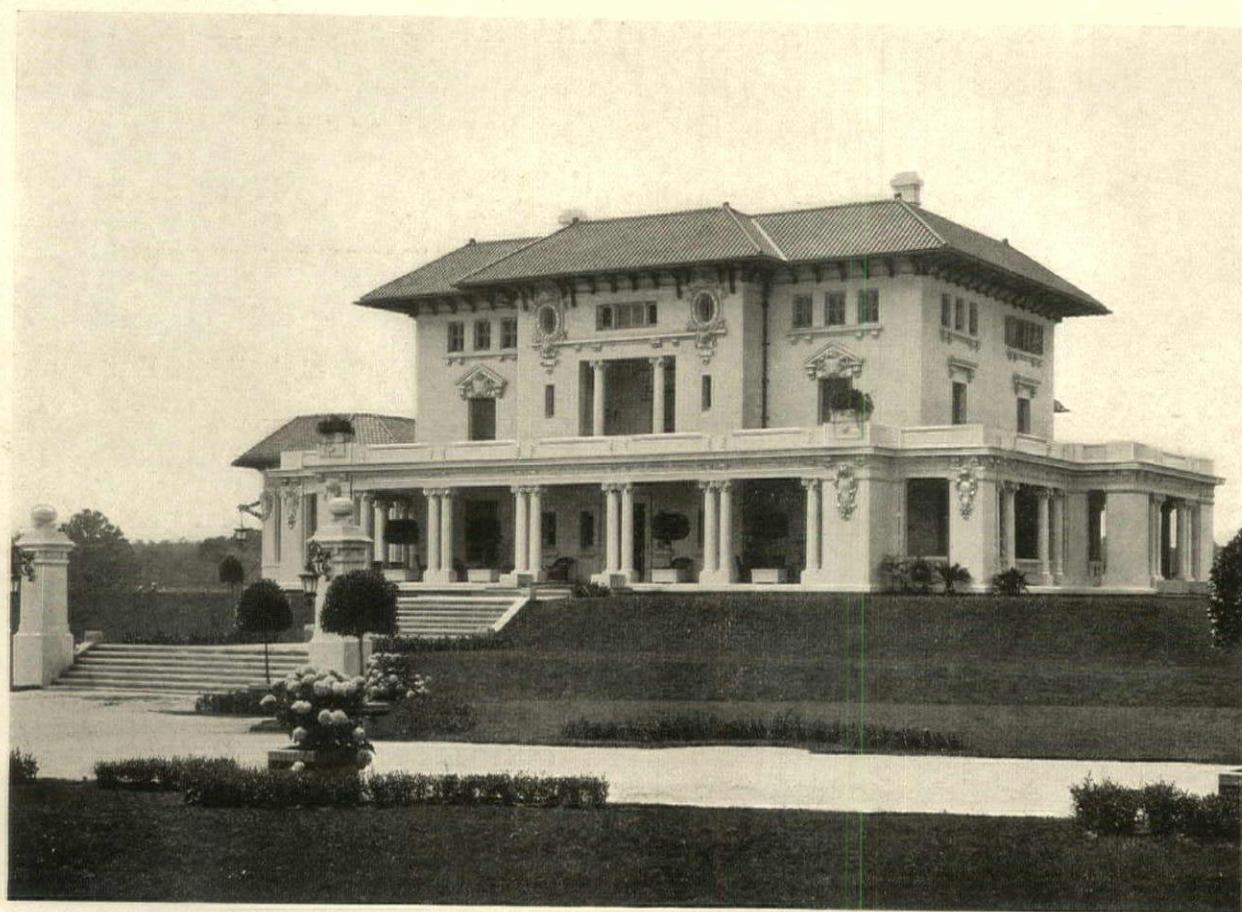
AMERICAN BRIDGE COMPANY OF NEW YORK

Annual capacity
700,000 Tons

Contracting offices in
23 American cities

General Offices:

42 BROADWAY, NEW YORK



“ELLENCOURT,” COUNTRY HOUSE, S. SACHS, ELBERON, N. J.

J. H. Freedlander, Architect.

THE STANDARD AMERICAN BRAND

ATLAS PORTLAND CEMENT

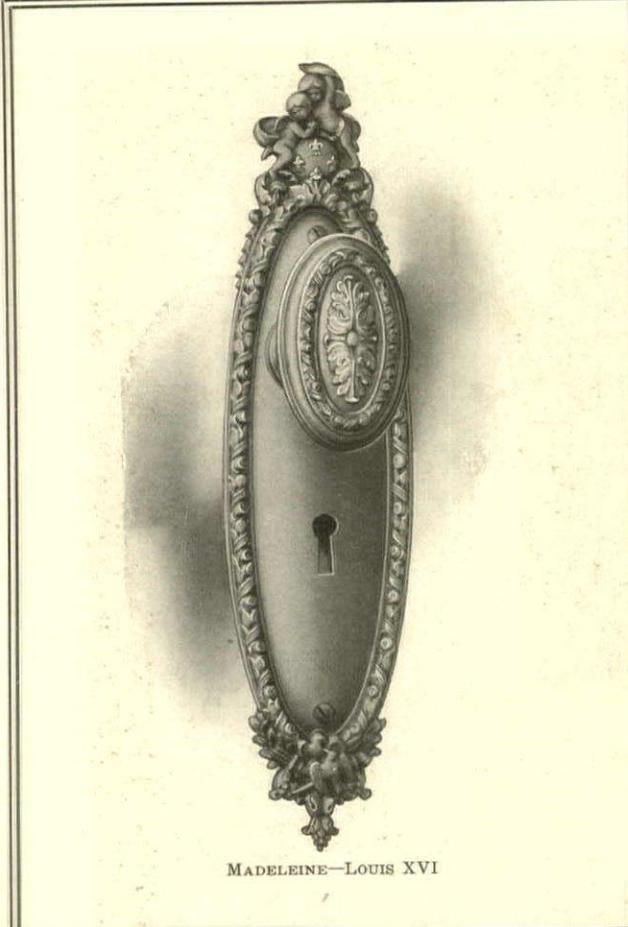
ALWAYS UNIFORM.

THE ATLAS PORTLAND CEMENT COMPANY

30 BROAD STREET,

NEW YORK

If interested we will forward our book on concrete construction



MADELEINE—LOUIS XVI

Russell & Erwin Mfg. Co.

Manufacturers and Importers of

ART HARDWARE

Sole Agents for

MAISON FONTAINE-PARIS

Designers and Modelers of Hardware,
Ancient and Modern.

Architects' Special Designs Artistically Rendered in
Bronze and Iron.

CONTRACT AND ART DEPARTMENT

No. 26 W. 26th Street,

New York



Batterson & Eisele

Importers and workers of

Marble, Onyx and Granite

Roman and Venetian Mosaics for
Floors, Walls, Mantels, Etc.

THE ACCOMPANYING ILLUSTRATION IS FROM A PHOTOGRAPH OF THE MAIN RESTAURANT, N. E. CORNER LOOKING TOWARDS LADIES' RESTAURANT, HOTEL ST. REGIS, NEW YORK.

TROWBRIDGE & LIVINGSTON, ARCHITECTS

Office: Times Building, - New York

Works: Edgewater, N. J.

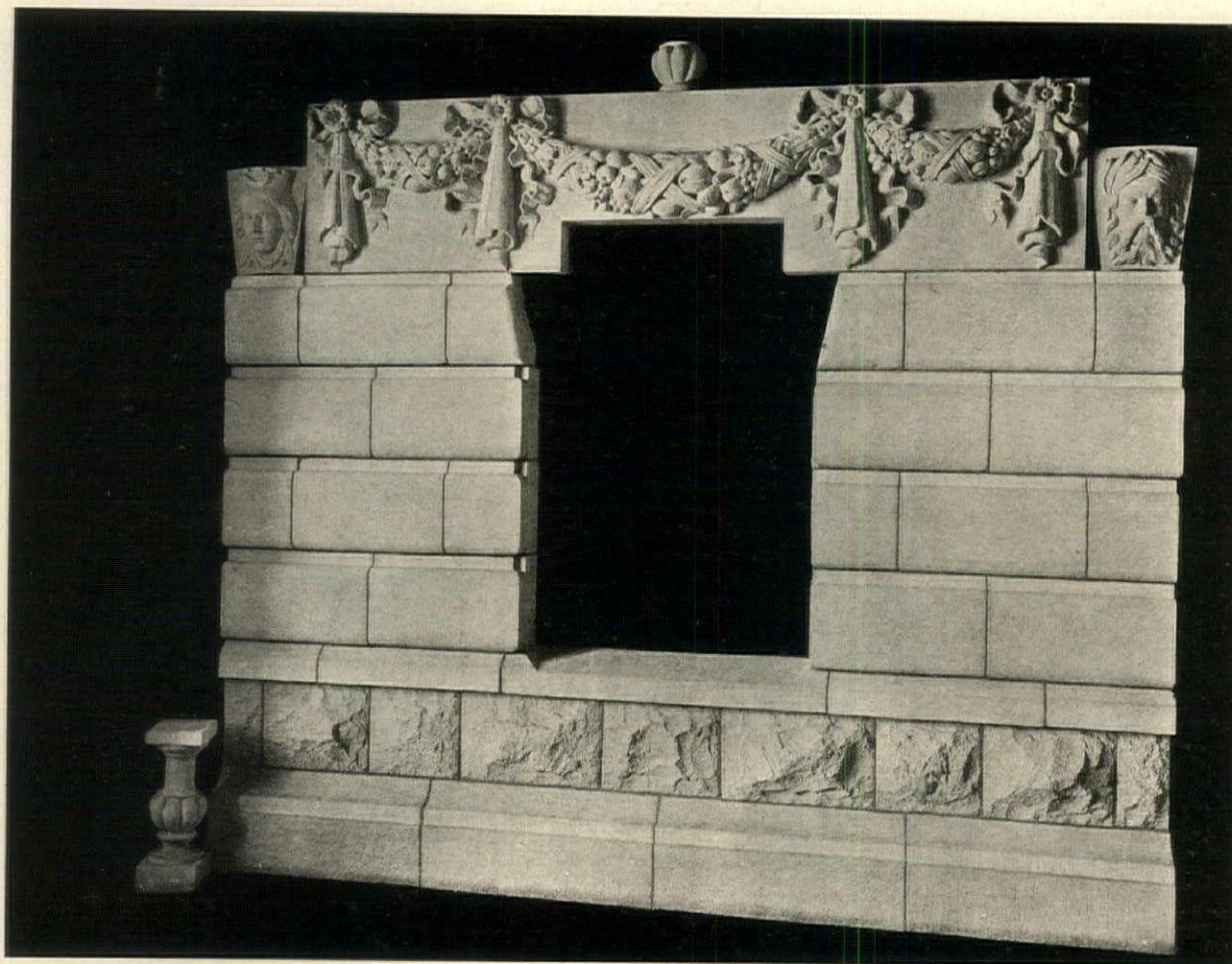


Exhibit of "Roman Stone"
In the "Home Office" of Metropolitan Stone Company.

"Roman Stone" is sold by

Standard Stone Company of York, York, Pa., for the
district of Maryland and Central Pennsylvania.

Standard Building Construction Company, Pittsburg, Pa.,
for the district of Western Pennsylvania.

METROPOLITAN STONE COMPANY

Room 9006 Metropolitan Building

No. 1 Madison Avenue,

NEW YORK CITY

ORIENTAL RUGS

W. & J. SLOANE



OUR Oriental Rug Department is the delight of the architect and connoisseur. Such men have an intelligent appreciation of all that has true artistic value. Our stock of Oriental Rugs is satisfying to the most critical, its decorative scope is practically without limit, and the size of the collection a revelation to those unfamiliar with this branch of our business.

Our close relations with the rug-weaving Orient, through our resident buyers who personally scrutinize each rug before purchasing, insure a collection of Oriental Rugs of exceptional merit.

We are confident that no architect or house owner can fail to make satisfactory selections from a stock that embraces such variety in sizes, qualities, colorings and designs. In cases where irregular sizes are wanted, or a particular design desired to harmonize with the decoration of the room, such problems are easily solved by our extraordinary facilities for designing and weaving such floor coverings to order. These special orders are difficult to handle and should be intrusted only to experts. Our long experience in this line of work eminently fits us for the execution of such contracts.

Correspondence and personal inspection invited.

884 BROADWAY

NEW YORK



A CORNER IN OUR SHOW ROOM

Decorative Leathers

BAISDEN-BRAGDON-WEBB CO., 13 W. 30th St., New York

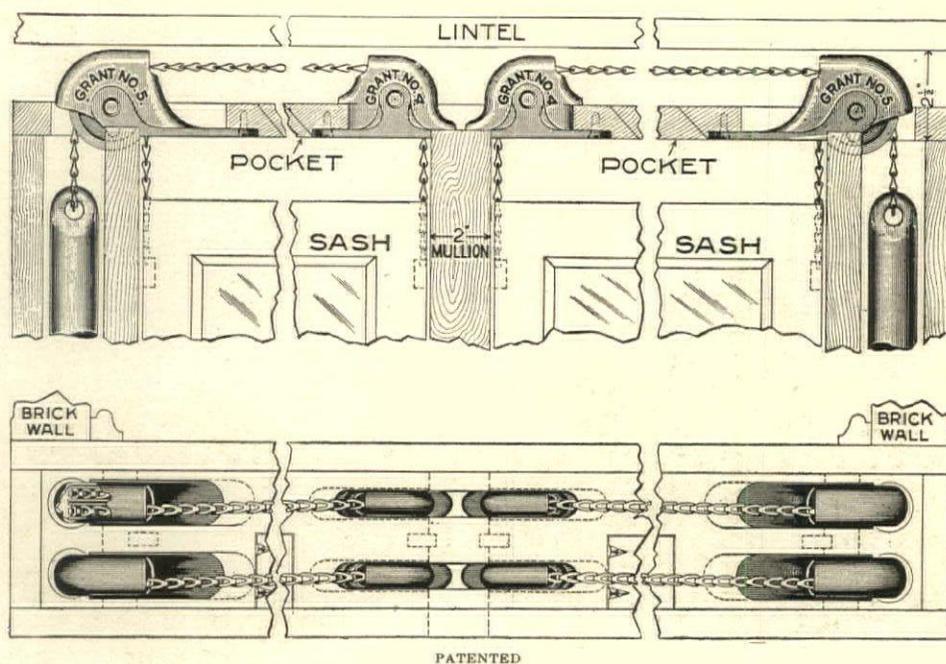
Telephone, 780 Madison

Hand-Tooled, Carved,
Sculptured in Mediæval, Spanish,
Flemish, Italian, and other
Styles for
Wall Hangings, Screens, Panels,
Furniture Coverings,
Draperies,
Cushions, Mats, Table and
Desk Tops,
Scrap Baskets, Picture Frames,
Music and Manuscript
Cases, Etc.

*Twenty years practical
experience in the repro-
duction of the best exam-
ples of this ancient art-
craft, together with the
approval of all archi-
tects and decorators of
standing, insure the sat-
isfactory execution of all
orders.*

Estimates given for special order work for Architects, Decorators, and other clients, from our own carefully studied and adapted designs, or theirs to meet all demands, on selected, imported leather in our special, durable, oil-dyed, illuminated or other effects. Reproductions to match Antique Leather. Genuine Antique Leather repaired and remounted. Hand and stamped gold work on leather.

Grant Pulleys for Twin Windows



The Reasons why the Grant Overhead Pulleys Are Wanted

- First.**—The housings are made in one piece, which will resist any load without breaking.
- Second.**—The housings connect with the soffits, so that mortar will not clog the wheels.
- Third.**—The chain, or cord, is easily inserted with a mouse, which we furnish with all orders.
- Fourth.**—In the Grant Pulley, on account of more pocket room, even for the heaviest plate glass windows iron weights may be used instead of lead, thus materially reducing the cost.
- Fifth.**—The frames are cut for the pulleys with the regular pulley machine.
- Sixth.**— They are the latest improved overhead pulleys.
- Seventh.**—They are concealed from view when the window is closed.
- Eighth.**—They can be removed if required after the trim is placed.

Grant Pulley and Hardware Co.

Pressed Metal Mfg. Co.

OFFICES:

35 Warren Street, New York

PRODUCTS OF THE AMERICAN PULLEY COMPANY, PHILADELPHIA, PA.

Address all inquiries to 35 Warren Street

Lincrusta - Walton

Solid Relief Decorations



LEATHER EFFECT—"ELEPHANT SKIN."

It has the rich, deep grain of a heavy Spanish leather and is offered in numerous colors

DADOS, FRIEZES, ORNAMENTS
AND PANELS IN GREAT VARIETY

—SUITABLE FOR—

*Dining Rooms, Halls, Vestibules, Hotels,
Offices, Club Houses, Yachts, Churches, etc.*

—MANUFACTURED SOLELY BY—

FR. BECK & CO.

Seventh Avenue and 29th Street
NEW YORK



COUNTRY HOUSE, C. L. HYDE, TUXEDO PARK, N. Y.
James Brown Lord, Architect.

GEORGE MERTZ'S SONS
Contractors, Builders

AND MANUFACTURERS OF

Fine Interior Hardwood Work
PORT CHESTER, N. Y.



COUNTRY HOUSE, C. LEDYARD BLAIR, FAR HILLS, N. J.
Carrere & Hastings, Architects.

THE LORILLARD Refrigerator

Established 1877.

Used in the Blair House and in all first-class Residences, Clubs, Hotels and Institutions.

Will save 25 per cent. to 40 per cent. in ice over any other refrigerator and will preserve the food more perfectly and for a longer time.

The new opal glass lining makes it absolutely sanitary. No possibility for the lodgment of disease germs. It is endorsed by the leading architects and sanitary experts.

Call and examine, or send for descriptive catalogue. Plans and estimates submitted free of charge.

Opposite Astor Court.

23 West 34th Street, New York City.



**The Interior
of a U-BAR Greenhouse**

with its aluminum finished U-BARS—absence of heavy supporting members—extreme lightness—gives to the architect a construction unmatched in interior effect and under his hand, adaptable to wide architectural results.



PIERSON U-BAR COMPANY

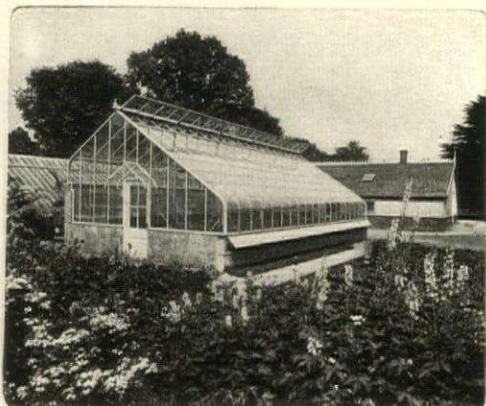
Designers and Builders of

U-BAR GREENHOUSES

Metropolitan Building

4th Ave. and 23d St.

NEW YORK



Parc de Versailles

Vase - Height - 44 inches

Pedestal - Height - 42 inches



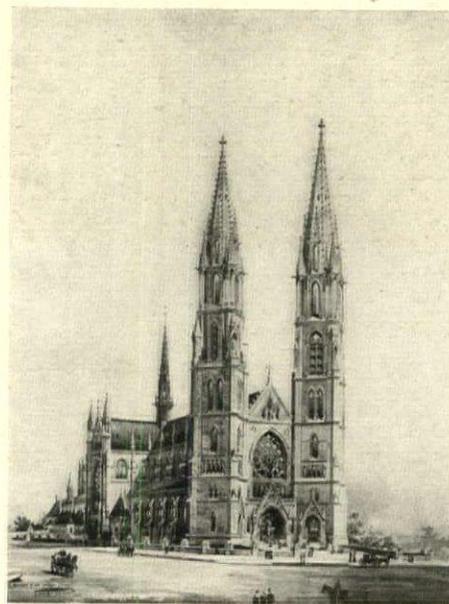
**GARDEN
CONSERVATORY
AND HALL
FURNITURE**

Fountains, Statuary, Columns, Pergolas, Balustrades, Standards, Sun Dials, Pedestals, Benches, Vases, Tables, Sphinxes, Lions, etc., in Marble, Bronze, Stone, and Pompeian Stone, that successfully withstands the American weather.

Illustrations and Estimates upon request.

**Henry Erkins
and Company**

4 West 15th Street
143-145 Varick Street
NEW YORK



Emerson Troy Granite Co.

E. B. Tompkins, President H. L. Brown, Secretary
W. E. Emerson, Treasurer

Quarry at Fitzwilliam, N. H.

The Sacred Heart Cathedral at Newark, N. J. was designed by Mr. Jeremiah O'Rourke, and is one of the largest in this country. Emerson Troy White Granite was selected because of its being white and fine grained enough to permit of the elaborate carving desired.

New York Office: No. 7 East 42nd Street.

H. L. Brown, Representative.

THE ARCHITECTS' REFERENCE

For the writing of specifications; also a directory for the use of contractors and people interested in building.

ASBESTOS SHINGLES.

ASBESTOS SHINGLE SLATE & SHEATHING Co., Ambler, Pa. *Adv. page v*

BLINDS (VENETIAN).

BURLINGTON VENETIAN BLIND Co., Burlington, Vt. *Adv. page xviii*

BRICK.

PROFENHAUER & NESBIT, 1133 Broadway, New York. *Adv. page iii*
 SAYRE & FISHER Co., 207 Broadway, New York. *Adv. page xxiii*

BRONZE WORK.

GORHAM MANUFACTURING Co., Fifth Ave., and 36th St., N. Y. *Adv. page ii*
 HECLA IRON WORKS, Brooklyn, N. Y. *Adv. page iv*
 JACKSON, Wm. H., Co., 29 East 17th St., New York. *Adv. page ii*
 SNEAD & Co. IRON WORKS, Jersey City, N. J. *Adv. page iii*
 WILLIAMS, Jno., 556 West 27th St., New York. *Adv. page ii*
 WINSLOW BROS. Co., Chicago; New York, 160 Fifth Ave. *Adv. page i*

BUILDERS.

HEDDEN CONSTRUCTION Co., 1 Madison Ave., New York. *Adv. page xxvii*
 MERTZ's, GEO. SONS, Port Chester, N. Y. *Adv. page xxxiv*
 WALSH, RICHARD L. Co., 100 William St., New York. *Adv. page xxxvii*

CABINET (TOILET PAPER).

A. P. W. PAPER Co., Albany, N. Y. *Adv. page xviii*

CARPETS.

SLOANE, W. & J., 884 Broadway, New York. *Adv. page xxxii*

CEMENT.

ATLAS PORTLAND CEMENT Co., 30 Broad St., New York. *Adv. page xxix*
 CONSOLIDATED ROSENDALE CEMENT Co., 26 Cortlandt St., New York. *Adv. Inside Back Cover*
 LAWRENCE CEMENT Co., 1 Broadway, New York. *Adv. Inside Front Cover*
 VULCANITE PORTLAND CEMENT Co., Land Title Building, Philadelphia; "Flat-iron" Building, New York. *Adv. Inside Back Cover*

COLUMNS (PATENT).

HARTMANN BROS. MFG. Co., Mt. Vernon, N. Y. *Adv. page xxxvii*

CONSERVATORIES.

HITCHINGS & Co., 1170 Broadway, New York. *Adv. page xxxix*
 LORD & BURNHAM Co., 1133 Broadway, N. Y. *Adv. page xxxvii*
 PIERSON U-BAR Co., Metropolitan Bldg., 4th Ave. and 23d St., New York. *Adv. page xxxv*

DECORATIONS.

BECK, FR., & Co., Seventh Ave. and 29th St., New York. *Adv. page xxxiv*
 LLOYD, W. H. S., Co., 26 East 22d St., New York. *Adv. page xl*
 RICHTER MANUFACTURING Co., Tenafly, N. J. *Adv. page xl*

ELECTRICAL CONTRACTORS.

BRUSSEL, DENNIS G., 15 West 29th St., N. Y. *Adv. Inside Front and Back Covers*
 FOSTER, M. B., ELECTRIC Co., Fuller Building, New York. *Adv. page xxii*
 FRANCIS BROS. & JELLETT, INC., 47 East 18th Street, New York. Cor. Broad & Wallace Sts., Philadelphia. *Adv. page xxvi*

ELEVATORS.

OTIS ELEVATOR Co., 17 Battery Place, New York. *Adv. Inside Front Cover*

ENGINES, (HOT AIR PUMPING).

AMERICAN MACHINE Co., Wilmington, Del.
 RIDER-ERICSSON ENGINE Co., 35 Warren St., New York. *Adv. page xxxix*

FILTERS.

NEW YORK CONTINENTAL JEWELL FILTRATION Co., THE, 15 Broad St., New York. *Adv. Outside Back Cover*

FIRE-PROOF FLOORS.

KEASBEY, ROBT. A., Co., 100 N. Moore St., N. Y. *Adv. Outside Back Cover*

FIRE-PROOFING.

ASBESTOS SHINGLE SLATE & SHEATHING Co., Ambler, Pa. *Adv. page v*
 GENERAL FIRE-PROOFING Co., Youngstown, O.; New York Office, 156 Fifth Ave. Chicago, 315 Old Colony Bldg. *Adv. page vi*
 ROEBLING CONSTRUCTION Co., Fuller Building, N. Y. *Adv. page xviii*

FLEXIBLE METALLIC CONDUIT

SPRAGUE ELECTRIC Co., 527 West 34th St., New York. *Adv. page vii*

FLOOR POLISH.

BUTCHER POLISH Co., 356 Atlantic Ave., Boston. *Adv. page xxvi*

GAS ENGINES.

NATIONAL METER Co., 84 Chambers St., New York.

GRANITE.

EMERSON TROY GRANITE Co., Fitzwilliam, N. H. New York Office, 7 East 42d St. *Adv. page xxxv*
 ROCKPORT GRANITE Co., 13 Park Row, New York. *Adv. page xxxviii*
 WOODBURY GRANITE Co., 1 Madison Ave., New York. *Adv. page xvi*

GRAPHITE PAINT.

DIXON CRUCIBLE Co., Jersey City, N. J. *Adv. page xl*

GREENHOUSE BUILDERS.

HITCHINGS & Co., 1170 Broadway, New York. *Adv. page xxxix*
 LORD & BURNHAM Co., 1133 Broadway, N. Y. *Adv. page xxxvii*
 PIERSON U-BAR Co., Metropolitan Bldg., 4th Ave. and 23d St., New York. *Adv. page xxxv*

HARDWARE.

BAYER-GARDNER-HIMES Co., 159 West 29th St., New York. *Adv. page v*
 RUSSELL & ERWIN MFG. Co., 26 West 26th St., New York. *Adv. page xxx*
 YALE & TOWNE MFG. Co., 11 Murray St., New York; Showrooms, 242 Fifth Ave. *Adv. page xx*

HEATERS

AMERICAN RADIATOR Co., Chicago; New York Office, 42 East 20th St. *Adv. page xix*
 LORD & BURNHAM Co., 1133 Broadway, N. Y. *Adv. page xxxvii*
 GORTON & LIDGERWOOD Co., 96 Liberty St., New York. *Adv. Inside Front Cover*
 HART & CROUSE Co., Utica, N. Y.; N. Y. Office, 235 Water St. *Adv. page xiv*
 KELSEY HEATING Co., Syracuse, N. Y. *Adv. page xiv*
 SMITH, H. B., Co., THE, Westfield, Mass.; New York Office, 133 Centre St., Philadelphia Office, 704 Arch St. *Adv. page xiv*
 THATCHER FURNACE Co., 110-116 Beekman St., New York. *Adv. page xiv*

HEATING AND VENTILATING APPARATUS.

BUFFALO FORGE Co., Buffalo, N. Y. 41 Cortlandt St., N. Y. *Adv. page xxiv*

HEATING ENGINEERS AND CONTRACTORS.

FRANCIS BROS. & JELLETT, INC., 47 East 18th St., New York; Cor. Broad and Wallace Sts., Philadelphia. *Adv. page xxvi*
 WALKER & CHAMBERS, 50 East 20th St., New York. *Adv. page xvi*

HINGES.

STANLEY WORKS, New Britain, Conn. *Adv. Outside Back Cover*

HINGES (SPRING).

BOMMER BROS., 257 Classon Ave., Brooklyn. *Adv. page xxxvi*

HOT BED SASH AND FRAMES.

LORD & BURNHAM Co., 1133 Broadway, N. Y. *Adv. page xxxvii*

HYDRAULIC RAMS.

NIAGARA HYD. ENGINE Co., 140 Nassau St., New York. *Adv. page xxvi*

INK-DRAWING.

HIGGINS, CHAS. M. & Co., 271 Ninth St., Brooklyn. *Adv. page v*

INTERIOR FURNISHINGS.

ERKINS STUDIOS, 4 West 15th St., New York. *Adv. page xxxv*

IRON WORK.

AMERICAN BRIDGE COMPANY, 42 Broadway, New York. *Adv. page xxxviii*
 DIMOND, THOS., 128 West 33d St., New York. *Adv. page v*
 HECLA IRON WORKS, Brooklyn, N. Y. *Adv. page iv*
 JACKSON, Wm. H. Co., 29 East 17th St., New York. *Adv. page ii*
 SNEAD & Co. IRON WORKS, Jersey City, N. J. *Adv. page iii*
 TYLER, W. S. Co., Cleveland, O. *Adv. page ii*
 URIS, HARRIS H., 525-531 West 26th St., New York. *Adv. page iii*
 WILLIAMS, Jno., 556 West 27th St., New York. *Adv. page ii*
 WINSLOW BROS. Co., Chicago; New York, 160 Fifth Ave. *Adv. page i*

LANDSCAPE GARDENERS.

COTTAGE GARDENS Co., Queens, Long Island, N. Y. *Adv. page xxvi*

LEATHERS (DECORATIVE).

BAISDEN-BRAGDON-WEBB Co., 13 W. 30th St., New York. *Adv. page xxxii*

LIGHTING FIXTURES.

ENOS Co., THE, 5 W. 39th St., New York. *Adv. page x*

LIGHT AND ILLUMINATION ENGINEER.

A. A. ERNST, 25 Broad St., New York. *Adv. page x*

MAIL CHUTES.

AUTOMATIC MAIL DELIVERY Co., Times Building, New York. *Adv. page viii*
 CUTLER MFG. Co., Rochester, N. Y. *Adv. page vi*

MANTELS, FIREPLACES, TILES.

JACKSON, Wm. H. Co., 29 East 17th Street, New York. *Adv. page ii*

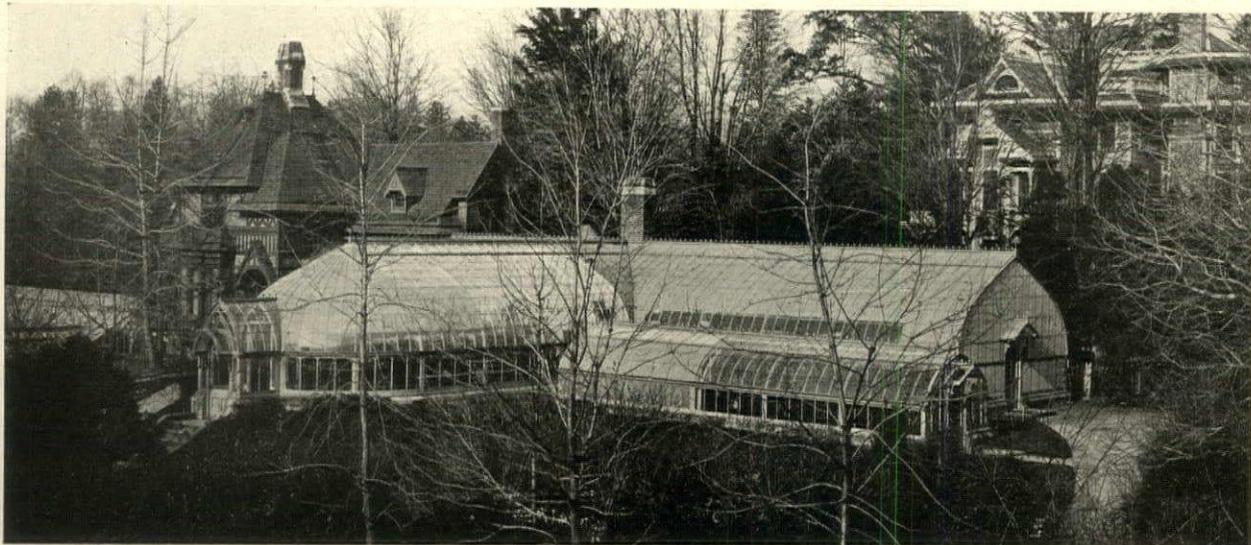
MARBLE (IMITATION).

MYCENIAN MARBLE Co., 526 W. 34th St., New York. *Inside Front Cover*

MARBLE AND MOSAIC WORK.

BATTERSON & EISELE, Times Bldg., New York. *Adv. page xxx*

BOMMER SPRING HINGES
COULD BE SPECIFIED - THEY COST NO MORE.



NOT HALF THE ARCHITECTS

appreciate the decorative possibilities of the greenhouse as a point of prominence in the ground scheme; that in the intimate linking of the dwelling and greenhouse we preserve to the architect his plan—to the client the guarantee of perfect horticultural conditions. We know the greenhouse business—and we want the architect to know that we know it.

LORD & BURNHAM COMPANY

Greenhouse Designers and Manufacturers

BOSTON BRANCH:
819 Tremont Building

1133 Broadway, Cor. 26th Street, New York



RESIDENCE, ROBERT H. MCCURDY, ESQ.
39 East 51st St., New York.

RICHARD L. WALSH CO.

Builders and Contractors

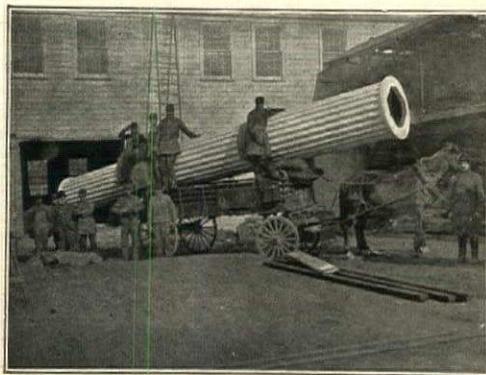
100 WILLIAM ST. :: :: NEW YORK

Telephone, 5647-5648 John

WURTS BROTHERS

Expert...
Architectural Photographers

Latest process used in photographing interiors, exteriors of buildings, and in reproducing water-color drawings. Will be pleased to call and submit estimates. OFFICIAL PHOTOGRAPHERS TO "ARCHITECTURE."
162 WEST 132d ST., NEW YORK. Telephone No. 1048 Morningside.



THE LARGEST "LOCK JOINT" COLUMN EVER BUILT. 40½" DIAM.
33' 10" LONG.

One of four furnished by us for the Portico of the Allenhurst Club.

Hartmann Bros. Mfg. Co.

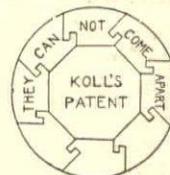
Mount Vernon, N. Y., U. S. A.

New York Office: 1123 Broadway

ALSO

HENRY SANDERS CO., CHICAGO, ILL. A. J. KOLL PLANING MILL CO., LOS ANGELES, CAL.

Manufacturers of Koll's Patent Lock Joint Columns for Pergolas, Porches or Interior Use. SEND FOR CATALOG B.



Cross Section.
KOLL'S PATENT.

THE ARCHITECTS' REFERENCE

(Continued from page xxxvi.)

METAL-COVERED DOORS AND WOODWORK.

BLANCHARD, J. F. Co., Fuller Building, New York. *Adv. page xii*
 RAPP, JOHN W., 1 Madison Ave., New York. *Adv. page viii*

METAL LATH.

GENERAL FIREPROOFING Co., Youngstown, O.; New York Office, 156 Fifth Ave. Chicago, 315 Old Colony Bldg. *Adv. page vi*

METALLIC CONSTRUCTION (INTERIOR WORK).

GENERAL FIREPROOFING Co., Youngstown, O.; New York Office, 156 Fifth Ave., Chicago, 315 Old Colony Bldg. *Adv. page vi*

MOTORS (ELECTRICAL).

SPRAGUE ELECTRIC Co., 527 West 34th St., New York. *Adv. page vii*

PAVEMENTS (ARTIFICIAL STONE).

HARRISON & MEYER, 16 East 18th Street, New York.

PHOTOGRAPHERS.

BATTEY, C. M., 128 West 134th St., New York. *Adv. page xxxviii*
 WURTS BROS., 162 West 132d St., New York. *Adv. page xxxvii*

PLASTERERS.

MILLER, H. W., Inc., 501 E. 22d St., New York. *Adv. page vi*

PLUMBING FIXTURES AND SUPPLIES.

HUBER, HENRY Co., 244 Fifth Ave., New York. *Adv. Inside Front Cover*
 PECK BROS. & Co., THE, 27 West 42d St., New York. *Adv. page xv*
 POTTERIES SELLING Co., Trenton, N. J. *Adv. page xiii*
 STANDARD SANITARY MFG. Co., Pittsburg, Pa. New York Office: 35 West 31st Street. *Adv. page xi*
 STEBINS, E., MFG. Co., Brightwood, Mass. *Adv. page xviii*
 TRENTON POTTERIES Co., Trenton, N. J. *Adv. page xvii*

PNEUMATIC TUBES.

LAMSON CONSOLIDATED STORE SERVICE Co., Boston, Mass. *Adv. page vii*

PRISM GLOBES AND REFLECTORS.

HOLOPHANE GLASS Co., 227 Fulton St., New York. *Adv. page x*

PRISMATIC LIGHTS.

AMERICAN LUXFER PRISM Co., 160 Fifth Ave., New York. *Adv. page xxiii*

PULLEYS.

AMERICAN PULLEY Co., Phila.; PRESSED METAL MFG. Co., N. Y. *Adv. page xxxiii*

PUMPS.

DAVIDSON, M. T., 43 Keap Street, Brooklyn; New York Office, 141 Broadway; Boston Office, 30 Oliver Street. *Adv. page i*
 QUIMBY, WM. E., (INC.), 44 E. 23d St., New York. *Adv. page iii*
 RIDER-ERICSSON ENGINE Co., 35 Warren St., New York. *Adv. page xxxix*

RADIATORS.

AMERICAN RADIATOR Co., Chicago; N. Y. Office, 106 W. 42d St. *Adv. page xix*
 KINNEAR PRESSED RADIATOR Co., Flatiron Building, N. Y. *Adv. page xvi*

RAMS (HYDRAULIC).

NIAGARA HYDRAULIC ENGINE Co., 140 Nassau Street, N. Y. *Adv. page xxvi*

REFLECTORS.

FRINK, I. P., 551 Pearl St., New York. *Adv. page xxvi*

REFRIGERATING MACHINERY.

REMINGTON MACHINE Co., Wilmington, Del. *Adv. page xxvi*

REFRIGERATORS.

LORILLARD REFRIGERATOR Co., 23 West 34th St., New York. *Adv. page xxxiv*

REVOLVING DOORS.

VAN KANNEL REVOLVING DOOR Co., 524 East 134th St., N. Y. *Adv. page vi*

ROLLING STEEL DOORS.

KINNEAR MFG. Co., Columbus, O. *Adv. page viii*

ROOFING.

BARRETT MFG. Co., 17 Battery Place, New York.

ROOFING TILE.

LUDOWICI-CELADON Co., 156 Fifth Ave., New York. *Adv. Inside Back Cover*
 PFOTENHAUER & NESBIT, 1133 Broadway, New York. *Adv. page iii*

ROOFING TIN.

FOLLANSBEE BROS., Pittsburg, Pa. *Adv. Outside Back Cover*
 TAYLOR, N. & G. Co., Philadelphia, Pa. *Adv. page xxi*

RUBBER TILING.

NEW YORK BELTING AND PACKING Co., 91-93 Chambers St. N. Y. *Adv. page vii*

RUGS.

KENT-COSTIKYAN, 890 Broadway, New York. *Adv. Outside Back Cover*

SASH CHAINS.

BRIDGEPORT CHAIN Co., Bridgeport, Conn. *Adv. page xxxviii*

SASH LOCKS.

FITCH W. & E. T. Co., New Haven, Conn. *Adv. page xxxviii*

SASH OPERATING DEVICE.

LORD & BURNHAM Co., 1133 Broadway, N. Y. *Adv. page xxxvii*

SHEATHING QUILT.

CABOT, SAMUEL, 70 Kilby St., Boston. *Adv. page xxiii*

SPRINKLER SYSTEMS.

FRANCIS BROS. & JELLETT, INC. 47 East 18th Street, New York. Cor. Broad and Wallace Streets, Philadelphia. *Adv. page xxvi*

STAINS.

BERRY BROS. LTD., Detroit, Mich. *Adv. page xxxix*
 CABOT, SAMUEL, 70 Kilby St., Boston. *Adv. page xxiii*
 MENZEL, WM. & SON, 68 Broad St., New York. *Adv. page xxiv*

STONE (ARTIFICIAL).

METROPOLITAN STONE Co., 1 Madison Ave., New York. *Adv. page xxxi*

TANK REGULATOR.

LAWLER REGULATOR Co., 158 Wooster St., New York. *Adv. page xviii*

TELEPHONES.

NEW YORK TELEPHONE Co., 15 Dey St., New York. *Adv. page 115*

TERRA COTTA (ARCHITECTURAL).

NORTHWESTERN TERRA COTTA Co., Chicago, Ill. *Adv. page xxvi*

TOILET PAPER.

A. P. W. PAPER Co., Albany. *Adv. page xviii*

VARNISH.

BERRY BROS. LTD., Detroit Mich. *Adv. page xxxix*

VAULTS AND SAFES.

HERFING-HALL-MARVIN Co., 400 Broadway, New York. *Adv. page xxviii*

WATER METERS.

NATIONAL METER Co., 84 Chambers St., New York.

WATERPROOFING

HYDREX FELT & ENGINEERING Co., 120 Liberty St., New York. *Adv. page ix*

WOOD PRESERVATIVE.

MENZEL, WM. & SON, 68 Broad Street, New York. *Adv. page xxiv*

ZINC WHITE.

NEW JERSEY ZINC Co., 11 Broadway, New York. *Adv. page xxvi*

C. M. BATTEY

Architectural Photographer

Successful photographing of exteriors, interiors, interior-decorations, tapestries, etc.

Copying Water-Color Drawings a Specialty.

Mail Address, 128 W. 134th St., New York City
 Telephone 2303 L. Morningside.



FITCH SASH LOCKS

Adjust and Protect the Sashes.
 Prevent Rattle and Securely

LOCK THE WINDOW.

Sold by hardware dealers everywhere.
 Catalogue and Working Model Free

Patented July 21, 1896.
 Aug. 24, 1897. Nov. 6, 1900.

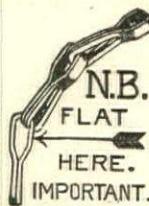
THE W. & E. T. FITCH CO.,
 New Haven, Conn.

We want to estimate on your work.

ROCKPORT GRANITE CO.

Telephone, 6032 Cortlandt.

13 Park Row, New York.

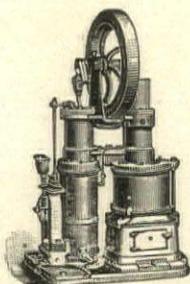


Monarch Sash Chain is the Best.

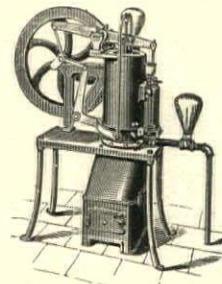
Samples Free. Mention this Paper.

The Bridgeport Chain Co.,
 BRIDGEPORT, CONN.

HALF ENOUGH WATER

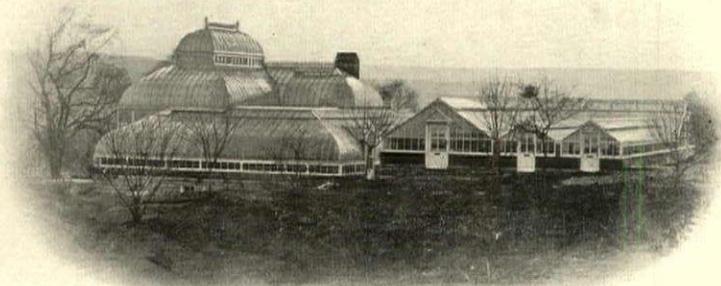
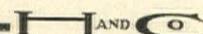


is quite enough for some people, but most people want water every day. If **Rider or Ericsson Hot Air Pumps** are used you can have water every day in the year, and your cook or stable-boy is the only engineer needed; 25,000 in daily use. Catalogue "B 3" on application to nearest store.



RIDER-ERICSSON ENGINE COMPANY,

35 Warren St., New York. 40 Dearborn St., Chicago.
 239 Franklin St., Boston. 40 North 7th St., Philadelphia.
 234 Craig St., West, Montreal, P. Q. Teniente-Rey, 71 Havana.
 22 Pitt St., Sydney, N. S. W.



TO THE ARCHITECT

We want to co-operate with the architect. Our business is the manufacturing of greenhouses and conservatories, their right equipment with heating plant and ventilating apparatus. Our expert knowledge and skill in execution guarantee a satisfied client.

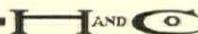
HITCHINGS & COMPANY

GREENHOUSE BUILDERS AND DESIGNERS

MANUFACTURERS OF HEATING AND VENTILATING APPARATUS

1170 Broadway

NEW YORK



ONLY TWO

Finishes are needed when writing specifications for wood finishing: LUXEBERRY WOOD FINISH for the general interior work, and LIQUID GRANITE for floors, bathrooms, window sash and sills, inside blinds and outside doors.

LUXEBERRY WOOD FINISH under its old name of Berry Brothers' Hard Oil Finish, has been the leading interior finish for forty years.

It is the same wear and tear resisting qualities of LIQUID GRANITE that constitute its value as a Floor Finish that qualify it for all woodwork where the exposure is unusually severe.

Drop us a line and we will mail you useful information on wood finishing and handsome finished samples of wood.

BERRY BROTHERS, Limited

Varnish Manufacturers

New York
Boston

Philadelphia
Baltimore

Chicago
Cincinnati

St. Louis
San Francisco

Factory and Main Office, DETROIT

Canadian Factory, WALKERVILLE, ONT.





A Specimen of High-Class English Frieze.

W. H. S. LLOYD CO.,

... Importers of ...

English, French and Japanese Wall Hangings.

*Sole Representative in this Country of the
Relief Decoration "ANAGLYPTA."*

Cable Address, "Intervene," New York.

26 East 22d Street, NEW YORK.

**SOMETHING NEW
TWO FINE WEAVES**

Scotia and Empire

Tapestrolea Burlaps

**Suitable for High-Class
Interior Decorations**

Send for Samples

**RICHTER MFG. CO.
TENAFLY NEW JERSEY**

SALESROOMS
20 East 21st St., New York
43 East Randolph St., Chicago

SPRING PAINTING

**Seasonable Talk
on Good Paint**

For the Preservation of All Classes
of Metal and Wood is contained in
the New Pamphlet B-1.

Write for a Free Copy.

**PAINT DEPARTMENT
JOSEPH DIXON CRUCIBLE COMPANY
JERSEY CITY, N. J.**