

NA
1
156

Cache 4, 8-12, t+i



Copyright, 1885, by The Inland Publishing Co.]

[Entered at the Postoffice at Chicago as second-class matter.



A MONTHLY JOURNAL
DEVOTED TO WESTERN INTERESTS.

OFFICIAL ORGAN OF THE
WESTERN ASSOCIATION OF ARCHITECTS.

VOL. VI.—No. 1.

CHICAGO, AUGUST, 1885.

TERMS: { \$2.00 per year in advance.
Single copies, 20 cts.

CONTENTS.

EDITORIAL.

Invitation of Foreign Architects to Convention of Western Association of Architects at St. Louis—Sanitary Literature—Modern Plumbing, and that of but a Few Years Ago—A Field for the Sanitarian to Cultivate—Recent Competition for the new Chamber of Commerce in Cincinnati—The Architect and Superintendent Appointed—The Attitude of Competitors Previous to an Award—A Sensation about the El Paso, Texas, Court House and Jail—Contractors Arraigned before the Grand Jury—The American Architect on Western Architecture..... 1

HINTS ON BUILDING.

By J. H. Carpenter, A. and C. E. Article VI.—Architectural Treatment of Walls..... 3

EUROPEAN SKETCHES.

By Irving K. Pond. Part VII.—Switzerland 4

ASSOCIATION NOTES..... 5

OUR ILLUSTRATIONS 7

PRINTED SPECIFICATIONS..... 7

MOSAICS 7

SYNOPSIS OF BUILDING NEWS..... 8

JUST PUBLISHED.
An Entirely New and Original Work,
PRACTICAL LESSONS
IN
ARCHITECTURAL DRAWING,
OR
How to make the Working Drawings for Buildings.
By WILLIAM B. TUTHILL, A.M. Architect.
One large 8vo. vol., cloth. Price, Postpaid, \$2.50.
Send orders to
INLAND PUBLISHING CO.,
19 Tribune Bldg., Chicago.

SAM'L I. POPE. CHAS. H. PATTEN.
STEAM AND HOT WATER.
Heating & Ventilating Apparatus,
WROUGHT IRON PIPE, FITTINGS, VALVES,
BOILERS, PUMPS AND ENGINEERS'
SUPPLIES.
PLANS AND SPECIFICATIONS FOR ALL KINDS OF STEAM WORK PREPARED.
SAM'L I. POPE & CO.,
193 LAKE STREET, CHICAGO.

TERRA-COTTA.

NORTHWESTERN TERRA-COTTA WORKS.

TRUE, BRUNKHORST & Co.
Proprietors,
Manufacturers of all kinds of Plain and Ornamental Terra-Cotta.
Works: corner Clybourn and Wrightwood Aves.
Telephone No. 3259.
Office: Room 20 McCormick Block,
Telephone 5284. CHICAGO.

A. KLUGE,

(Formerly with J. J. McGRATH.)

INTERIOR DECORATION.

PAPER HANGINGS,
LINCRUSTA-WALTON,
RAISED FLOCKS,
IMITATION LEATHERS
157 Wabash Avenue, CHICAGO.

THE WIGHT FIRE-PROOFING CO.

Contractors for all kinds of Fire-Proof Work in
Porous Terra-Cotta or Hollow Tiles,
Also for Fine Plastering, Cementing and Concreting.
KEENE'S CEMENT INSIDE FINISH
As a Substitute for Wood.
SCAGLIOLA COLUMNS AND PILASTERS.
New York Office: 60 William Street. Chicago Office: 202 La Salle Street.

PHOTOGRAPHS

—OF—

RESIDENCES, INTERIORS,
STORES, DETAILS, ETC.

Will send you 200 subjects if you promise to select
two dozen at \$6.00 per dozen.

J. W. TAYLOR,

No. 146 LA SALLE STREET, CHICAGO, ILL.

SUBSCRIPTIONS

Taken for all

Architectual (and other) Publications,

FOREIGN AND AMERICAN,

At Publishers' Lowest Prices.

CHAS. MACDONALD & Co's Periodical Agency,

55 E. Washington Street, CHICAGO.

ALBERT A. RILEY,

GRATES, BRASS,
MANTELS, FIREPLACES,
TILING, FENDERS,
REGISTERS, ANDIRONS,
ETC. FIRE SETS,
ETC. COAL HODS, ETC.

178 Wabash Ave., Chicago, Ill.

BRANCH OFFICE AND SHOWROOM

OF

THE MEYER-SNIFFEN COMPANY,
(Limited.)

Importers and Manufacturers of

FINE SANITARY SPECIALTIES,
91 ADAMS STREET, CHICAGO.

Telephone 660. J. B. SNIFFEN, Mgr.

SEYSSSEL ROCK ASPHALT.

FOR SIDEWALKS, FLOORS, CELLARS AND ROOFS.

BITUMEN DAMP COURSE.

DAMP RESISTING SOLUTION.

29 Waverly Place, New York. } E. H. WOOTTON { Box 382,
New York. } Bldrs. & Trds.
Exchange,
CHICAGO.

G. HINSTORFF,

IMPORTER OF

DRAWING MATERIAL.

LARGE STOCK. LOW PRICES.
CORRESPONDENCE SOLICITED.

PUBLISHER OF

BLANK SPECIFICATIONS for Brick and frame Buildings
Costing from \$500 to \$10,000 (sample per mail 30c.)

ARCHITECTS CERTIFICATE BOOKS.

AGREEMENT BLANKS FOR BUILDING.

Send for Samples.

G. HINSTORFF, 48 DEARBORN ST., CHICAGO.

THE BOSTON

Architectural Terra-Cotta Works,

H. A. LEWIS, PROPRIETOR.

384 to 390 FIRST STREET, SO. BOSTON, MASS.

Box 319, Mechanics' Exchange.

ILLUSTRATED PLATES SENT ON APPLICATION.

SEND FOR ESTIMATES.

J. B. SULLIVAN.

ESTABLISHED 1855.

M. J. SULLIVAN.

J. B. SULLIVAN & BRO.

We respectfully call attention to the fact that our business is divided into three departments, viz.: We carry a very large stock of

WALL PAPER AND PAPER DECORATIONS,

Selected with great care from all the leading manufacturers. We have also many exclusive designs in Choice Hangings, which cannot be obtained elsewhere. We supply only first-class Paper Hangers to execute all work, and can guarantee satisfaction.

PAINTING AND GLAZING DEPARTMENT.

In this department we employ only the most skillful workmen, and use the best material that can be purchased. We also do Calcimining and Fine Tinting.

FRESCO AND DECORATIVE DEPARTMENT.

Having Designers of High Merit we are prepared to produce the very latest effects, and can guarantee the very best possible results.

ALL WORK IN THE VARIOUS DEPARTMENTS IS UNDER THE PERSONAL SUPERVISION OF THE FIRM.

Competent men sent to any section of the country. Designs furnished. Correspondence solicited.

J. B. SULLIVAN & BRO.,

266 & 268 N. Clark St., and } CHICAGO.
Room 15, 159 & 161 La Salle St., }

TELEPHONE 8101.

United States Electric Lighting Co.

MANUFACTURERS OF

Weston Dynamo Machines & Lamps.

Recent improvements make this the most perfect system of
INCANDESCENT LIGHTING
now before the public.

Among the many prominent buildings, both public and private, now successfully operating our lights, we mention the following:

United States Postoffice,	- - - - -	New York.
Western Union Building,	- - - - -	"
Washington Building,	- - - - -	"
Equitable Life Building,	- - - - -	"
Mutual Life Building,	- - - - -	"
London & Liverpool & Globe Building,	- - - - -	"
Pennsylvania Railroad Depot,	- - - - -	Jersey City.
New Capitol Building,	- - - - -	Albany, N. Y.
United States Postoffice,	- - - - -	Philadelphia.
United States Mint,	- - - - -	"
United States Postoffice,	- - - - -	Chicago.
Palmer House,	- - - - -	"
Royal Insurance Building,	- - - - -	"
Home Insurance Building,	- - - - -	"
Insurance Exchange,	- - - - -	"
Maller's Office Building,	- - - - -	"
United States Postoffice,	- - - - -	Saint Louis.
United States Postoffice,	- - - - -	Cincinnati.
Pillsbury's Mills,	- - - - -	Minneapolis.
Parliament Buildings,	- - - - -	Ottawa, Ont.
Washington Monument,	- - - - -	Washington, D.C.
Montezuma Hotel,	- - - - -	Las Vegas Hot Springs.

Catalogues furnished on application.

CHICAGO OFFICE, 216 LA SALLE ST.

C. C. WARREN, Manager Western Department.

P. M. ALMINI, Decorative Artist.

Personal attention given to Fresco Painting in all its branches.

Designs and Estimates furnished upon all kinds of public buildings and private structures in any part of the United States.

ARCHITECTS ARE ESPECIALLY NOTIFIED that all designs executed by this Artist are according to the latest prevailing styles.

OFFICE: No. 243 Wabash Avenue,
CHICAGO, ILL.

Send for Designs and Estimates.

NEW DEPARTURE SPECIFICATIONS,

PUBLISHED BY THE

INLAND PUBLISHING CO.

These printed specifications will be ready for issue on the 1st of September, 1885.

Specimen copies mailed to any address in the United States or Canada, postage free, on receipt of twenty-five cents.

ADDRESS:

INLAND PUBLISHING COMPANY,

19 TRIBUNE BUILDING,

CHICAGO, ILL.

C. H. HAYDEN.

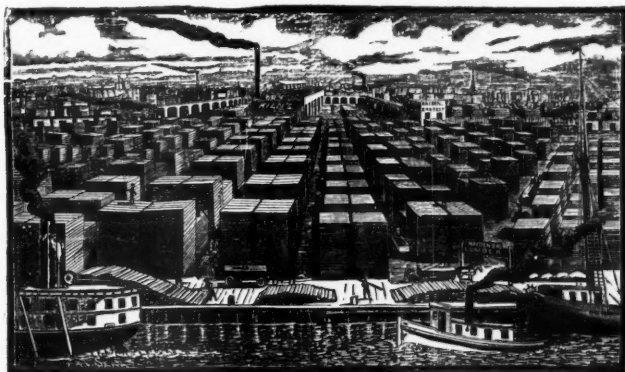
HAYDEN BROS.,

IMPORTERS & DEALERS IN

HARDWOOD LUMBER,

LONG LEAF YELLOW PINE.

MAHOAGANY



AND VENEERS.

LUMBER DRYING A SPECIALTY.

Hardwood lumber by the cargo, car or wagon lots. Have 5,000,000 feet of selected stocks; 600 feet of railroad tracks; 15,000 square feet of covered sheds; 400 feet of dockage.

OFFICE: 316 PULLMAN BUILDING, CHICAGO, ILL.

K. B. & S'. ENGLISH.
GIBBS & CO.'S ENGLISH.
STETTINER GERMAN.
LAGERDORFER GERMAN.
FIEVE A. BELGIAN.
ROMAN CEMENTS.
KEENE'S CEMENTS.

HOWARD FLEMING,

23 LIBERTY ST., NEW YORK,

IMPORTER OF

PORTLAND CEMENTS

FROM THE BEST MAKERS.

These Cements are Standard for quality and quantity and are used by Government Engineers. Memorandum Book mailed on application. Send for Circulars and Price Lists.

H. S. HAYDEN.

PROMINENT REAL ESTATE FIRMS.**REAL ESTATE**

Bought, Sold and Rented on Commission.

MONEY TO LOAN ON REAL ESTATE
AT LOWEST RATES.

Building Loans made to responsible parties.

BAIRD & BRADLEY,

90 La Salle Street.

A. B. MEAD. Established 1867. A. L. COE

MEAD & COE,**REAL ESTATE AGENTS,**

149 La Salle Street.

Take general care and management of Estates, including payment of taxes and collection of rents.

LOANS NEGOTIATED, secured by first mortgage on Real Estate in Chicago or vicinity. Correspondence invited.

Edison Electric Light.

THE ONLY PERFECT

INCANDESCENT SYSTEM.

It is in successful operation for general lighting from central stations in cities, towns and villages.

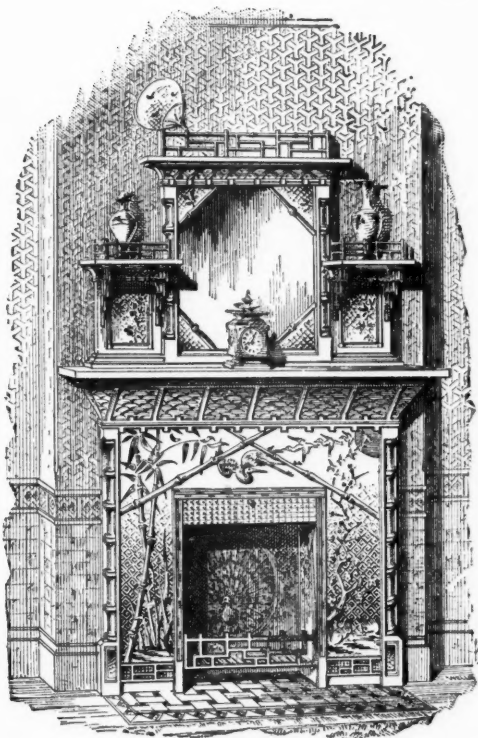
Over 100,000 Edison lamps are burning in isolated plants in the United States.

WESTERN EDISON LIGHT CO.,

185 Dearborn Street,

CHICAGO, ILL.

HECLA ARCHITECTURAL BRONZE & IRON WORKS, POULSON & EGER,



Office and Warerooms:

216 & 218 W. 23rd St., NEW YORK.

Works:

N. 10th, N. 11th & 3rd Sts., BROOKLYN, E. D.

Artistic Metal Mantels and Overtops,

In Bronze, Brass, Oxidized Iron,

Galvano Plastic and Electroplated Iron,

Combined with our Patent Blower and Fire

Screen. Contractors for Ornamental

and Architectural Wrought and Cast Iron

Work of every Description for Public and

Private Buildings.

SPECIAL DESIGNS FURNISHED AND CORRESPONDENCE WITH ARCHITECTS SOLICITED.

KELLOGG, JOHNSON & BLISS,

AGENTS FOR ALL THE LEADING MAKES OF

Parlor Sliding Door Hangers,

MECHANICS' TOOLS AND CUTLERY.

Illustrated Catalogue sent free.

WE MAKE A SPECIALTY OF

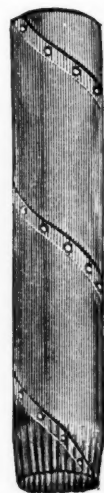
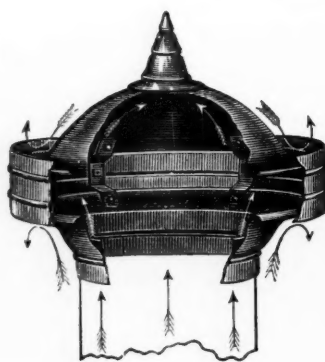
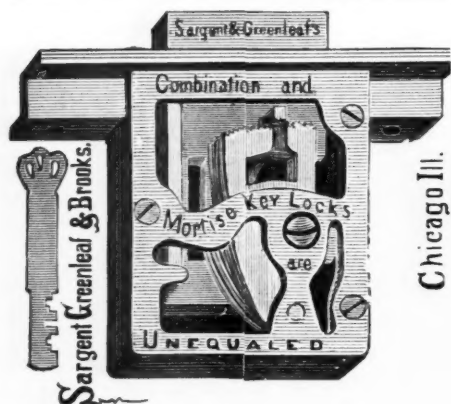
Builders' and Cabinet Hardware

Artistic Hardware

FOR FINE RESIDENCES AND PUBLIC BUILDINGS.

PARTIES RESIDING AT A DISTANCE CAN PURCHASE GOODS AS LOW BY MAIL AS IF THEY CALLED IN PERSON TO SELECT SAME.

108 & 110 Randolph St., CHICAGO, ILLS.



WE SELL:

Sargent & Greenleaf's Non-Pickable Flat Key Locks,

The Strongest, Safest, Most Simple and Secure Locks ever made.

Sargent & Greenleaf's Combination Locks,

SAFE, SIMPLE, STRONG. Used in U. S. Treasury, the Vault Doors of the Calumet, Montauk and New Board of Trade Buildings, in Chicago, and in the best Banks and Office Buildings in the Country.

Globe Ventilators,

A Sure Cure for Smoky Chimneys or badly Ventilated Houses, Churches, Factories, Schools, Halls or Theaters.

Spiral Riveted Pipe,

For Conductor Pipes, Ventilating Pipes. Also, for Heating Shops, Factories, Planing Mills, etc., with Exhaust Steam.

Adjustable Sheet-Metal Elbows,

Made of Tin and Galvanized Iron, from 1½ to 10 inches diameter.

PLEASE SEND FOR PRICE-LISTS, CIRCULARS AND DISCOUNTS.

SARGENT, GREENLEAF & BROOKS,

PLEASE MENTION THIS JOURNAL.

43 and 45 Franklin Street, CHICAGO, ILL.

HARRIS BROS'

Pressed, Ornamental and Enameled

BRICK,

OHIO ENCAUSTIC TILE CO'S

Plain, Glazed and Encaustic

TILE.

ABBOT & WRIGHT, Agents,

161 LA SALLE STREET,

CHICAGO.

A Catalogue can be had on application by Architects. Special designs made to order. Orders promptly filled.

TIFFANY

PRESSED BRICK CO.

PRINCIPAL OFFICE

175 DEARBORN ST., CHICAGO.

(Commercial National Bank Building.)

WORKS AT MOMENCE, ILL.

MANUFACTURERS OF FINEST

PRESSED BRICK,

PLAIN AND ORNAMENTAL,

BY THE NEW

TIFFANY PROCESS.

JAS. VAN INWAGEN, Pres't.

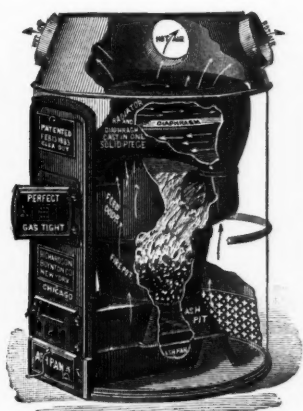
JOEL TIFFANY, Vice-Pres't.

FRED. VAN INWAGEN, Sec'y.

SOLOMON SNOW, Bus. Mgr.

SAMPLES SENT ON APPLICATION.

WM. ALSIP, Superintendent of Works.



"PERFECT" FURNACE.



"BRIGHTON" RANGE.



SALAMANDER FURNACE.

Richardson & Boynton Co.

MANUFACTURERS OF

ESTABLISHED 1849.

CORRESPONDENCE SOLICITED.

ESTIMATES FURNISHED

ON APPLICATION.

FURNACES,

RANGES,

STOVES,

REGISTERS, Etc.

84 Lake Street, CHICAGO, ILL.

232 & 234 Water Street, NEW YORK.

The Wight Fireproofing Co.

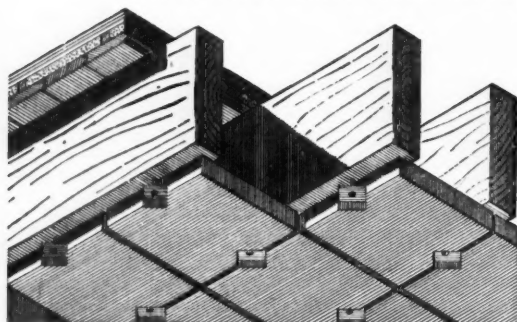
202 La Salle St., Chicago. 69 Washington St., New York.

Contractors for all kinds of Fireproof Work in

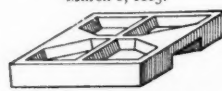
Hollow Fire-Clay Tiles and Porous Terra-Cotta,

IN ALL PARTS OF THE UNITED STATES.

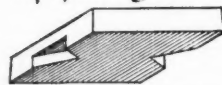
ILLUSTRATION OF POROUS TERRA-COTTA FIREPROOF CEILING.



Patented April 16, 1878, and
March 6, 1883.



Top of Ceiling Tile.



Bottom of Ceiling Tile.

500,000 feet of this Ceiling have been put up in Chicago, Milwaukee and Cleveland,
and it is now being put in the American Bank Note Building, New York.

All forms of constructive Ironwork, such as Columns, Girders and Roof Trusses, covered with
porous Terra-Cotta, and left ready for plastering.
Partitions, Furring and Roofing furnished and set.

SEND FOR ILLUSTRATED CATALOGUE.

Asbestos Flooring Felt.

Patented August 20, 1872.



For Lining between Floors, under Slates, Shingles,
Clapboards, etc.

Absolutely fire-proof, and unexcelled for deadening purposes
in rolls 44 inches wide. Manufactured only by

THE ASBESTOS PACKING CO

169 Congress St., Boston.

PERTH AMBOY
TERRA-COTTA CO.

GENERAL OFFICE,
Nos. 80 & 81 ASTOR HOUSE,
NEW YORK CITY,

MANUFACTURERS OF

ARCHITECTURAL
TERRA-COTTA.

WM. W. K. NIXON, 175 DEARBORN STREET,
SOLE AGENT FOR CHICAGO.

P. HAYDEN, PRESIDENT.

ALBERT HAYDEN, RESIDENT DIRECTOR.

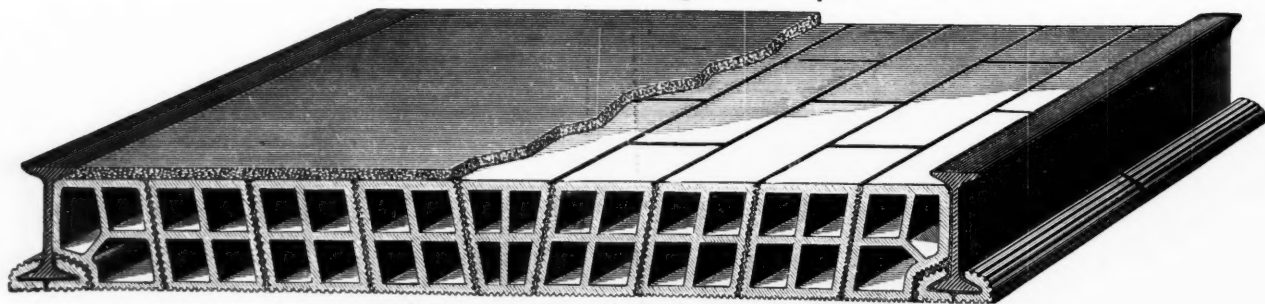
C. H. HAYDEN, VICE-PRES'T.

THE HAYDENVILLE

MINING AND MANUFACTURING CO.

MINES AND WORKS,

Haydenville, Hocking County, Ohio.



BEAM PROTECTION (Patented April 21, 1885).

MANUFACTURERS AND CONTRACTORS FOR

FIRE-PROOFING BUILDINGS

THROUGHOUT, WITH

HOLLOW TILE FLOOR ARCHES, COLUMN COVERS, GIRDER PROTECTION,

HOLLOW TILE PARTITIONS OF ANY REQUIRED DIMENSIONS.

VAULT LININGS, FLUE LININGS, WALL FURRING, ROOF TILES AND FIRE BRICK.

SPECIAL DESIGNS FURNISHED FOR ROOFS.

YARD, 1617, 1619, 1621, 1623, 1625, 1627, 1629 AND 1631 STATE STREET, CHICAGO.

Address all Correspondence to

H. BUTLER, C. E., and Gen'l Sup't Fire-Proofing Department,

TELEPHONE No. 5279.

45 AND 47 LAKE STREET, CHICAGO, ILL.

SOAPSTONE FINISH AND MORTAR MATERIAL.

SOAPSTONE FINISH.

Superior to plaster or sand finish for walls and ceilings. Is non-absorbent and a non-conductor. Can be washed without injury. Does not chip crack. It does away with the glaring white of ordinary finish, being of a bluish gray tint; also in other colors. Cost compares favorably with other kinds of finish. Send for circular.

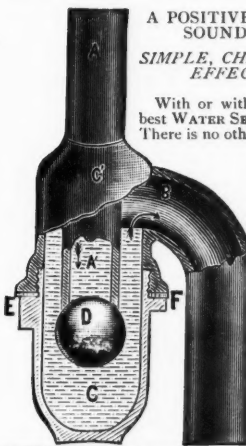
MORTAR MATERIAL.

Colored mortar material for laying front brick. Warranted not to wash or fade. Is not liable to stain the face of bricks and consequently no acid required to clean it down. Comes in red, black, buff and other colors. Send for circular.

AMERICAN SOAPSTONE FINISH CO., Nashau, N. H.

Represented in Chicago by CHAS. H. KNAPP, AGT., 204 DEARBORN STREET.

(STOCK ON HAND)

THE BOWER
Sewer Gas Trap.

A POSITIVE VALVE SEAL; A SOUND WATERSEAL.
SIMPLE, CHEAP,
EFFECTIVE & DURABLE.

With or without the Valve, it is the best WATER SEAL TRAP in the market. There is no other Trap so sure of retaining its WATER SEAL; none that approximates it in the surety of the VALVE SEAL. The Valve keeps its seat by flotation, and as compared with other Valves and Traps is little or no resistance to the outflow of water or waste. Illustrative and descriptive 48-page pamphlet sent free on application.

B. P. BOWER & CO.
Manufacturers,
CLEVELAND, OHIO.

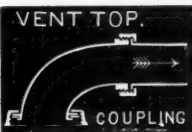
Put into the White House by the U. S. Government.



F. E. CUDELL'S
PATENT SEWER-GAS
AND BACKWATER TRAP

—FOR—
Wash-Bowls, Sinks, Bath and
Wash-Tubs.

204 Superior St., Cleveland, O.



JOHN C. HEWES, Sup't.

American Asphalt Concrete and
Roofing Works.

OFFICE: 186 LA SALLE STREET.

Trinidad Asphalt and Portland Cement Cellar Bottoms.
Driveways, Sidewalks and Boiler Pits a Specialty.

—ALSO—

Asphalt, Plastic and Gravel Roofing Done, and
Old Roofs Repaired.

All Orders Promptly Attended to.
CHICAGO, ILL.

LONG MEADOW BROWN STONE
FOR BUILDING PURPOSES.

JAMES & MARA,
QUARRYMEN AND STONE CUTTERS
73 Franklin St., Springfield, Mass.

QUARRIES AT E. LONG MEADOW, MASS.

The Long Meadow Brown and Red Stone has been used in
many of the finest buildings in Chicago, Boston, Springfield
and other cities.

ROYAL GAS MACHINE.

Hotels, Churches, Factories, Colleges, Asylums, Private Residences, all use it.

Street Lamps, All Designs, Posts, Gasoline, Naphtha, Crude Oil, for Gas Works.

PENNA GLOBE GAS LIGHT CO.
Nos. 47 & 49 N. Second St., Phila.

Office Clark & 16th St. Chicago.

Factory & Mines Ottawa Ill.

Pioneer Fire proof Construction Co.

PATENTEE'S MANUFACTURERS AND CONTRACTORS

EVERY DESCRIPTION OF HOLLOW SOUND TILE AND POROUS TILE

SEND FOR ILLUSTRATED PRICE LIST

CHICAGO.

TELEPHONE 8452

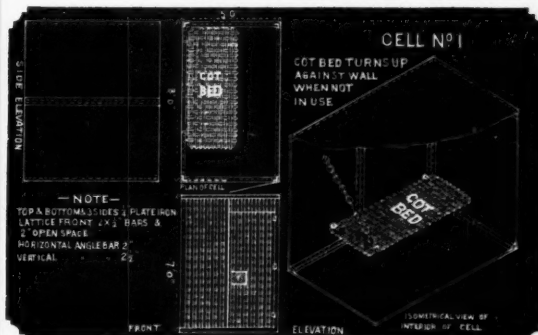
BUILDER'S EXCHANGE 405

GLOBE IRON WORKS,

H. A. STREETER, Proprietor,

Nos. 35 to 41 Indiana Street, CHICAGO, ILL.

COURT HOUSE, JAIL AND CELL WORK A SPECIALTY.



Manufacturers of Every Description of

Structural and Ornamental
Iron Work.

STREETER'S PATENT SASH
FOR ASYLUMS.

Iron Buildings. Store Fronts.
Iron Roofs. Riveted Girders.
Jail Work. Bank Vaults.
Columns. Stairways.
Railings. Gates.
Verandas. Crestings.
Skylights. Sash Weights.
Air Grates. Bolts.
Sidewalk-lights. Blacksmithing.

Contracts taken in any part of the Country.

ZIMDAR'S PATENT
AIR BELLS

FOR HOTELS, RESIDENCES, OFFICES, ELEVATORS,
STEAMSHIPS, ETC.

NO WIRES TO STRETCH!

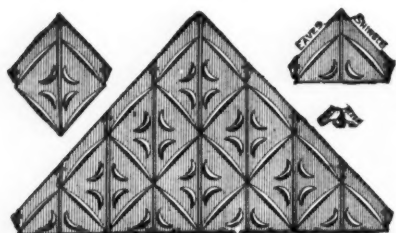
NO BATTERIES TO MAINTAIN!

9 Lighthouse St., NEW YORK, and 75 E. Madison St., CHICAGO.

WESTERN AGENCIES:—Baldwin Mfg. Co., 75 E. Madison St., Chicago, Ill.; J. B. Schroder & Co.,
3d and Elm St., Cincinnati, O.; M. N. Rowley, 17 Woodbridge St., Detroit, Mich.; Va. Jen & New,
Indianapolis, Ind. Send for Catalogue.

BEST METAL ROOFING IN THE WORLD,

—OF—



Tin, Copper and Kalameined Iron.

We claim the following for our Roofing:

1. An absolutely Storm Proof roof, more durable than wood, ordinary tin or common slate.
2. The only roofing that is proof against storm, wind, fire, salt, air and gases.
3. The only shingles providing absolutely for expansion and contraction in all variations of temperature.
4. The strongest and lightest roof in the market, and having nail holes all covered.
5. We guarantee every claim we make for it.

Our Dove Tail Tin Shingle has taken the lead of all other Tin Shingles, 100 to the square.

We are the only house in the United States having a full line of Metal Roofing.

For samples and different designs in Iron and Tin, apply to

Anglo-American Roofing Co.,
22 CLIFF STREET, N. Y.

WORKS: WOLVERHAMPTON, ENG., BROOKLYN, N. Y.,
SCOTTDALÉ, PA.

ISAAC M. HOLCOLMB, Pres't.

CHAS. E. STREAT, Sec'y.

THE FIRE PROOF BUILDING CO.

WORKS AT ELIZABETHPORT, N. J. OF NEW JERSEY. ESTABLISHED 1873.

MANUFACTURERS OF

Fire-Proof Building Materials

OF EVERY DESCRIPTION.

FIRE CLAY, HARD BURNT, AND POROUS TERRA-COTTA BLOCKS

For FLAT ARCHES, CEILING,
PARTITIONS, ROOFING,
FURRING, GIRDER & COLUMN COVERING,

Special shapes to order. A large Stock always on hand.
Estimates furnished. Builders supplied.

Office: 229 Broadway, NEW YORK CITY.

TOMLINSON & CARSLÉY

INTERIOR

Finishing

AND

Furnishing

Special Designs and Estimates
Furnished for all kinds of Interior
Finishing, Furnishing and Decorating.

FACTORY:

2242 to 2256 South La Salle Street.

L. F. CROSBY, Designer, 55 Central Music Hall.

CHICAGO, ILL.

Beaver, Hughes & Wetmore Co.,

215 STATE STREET.

Special and

Exclusive

Designs

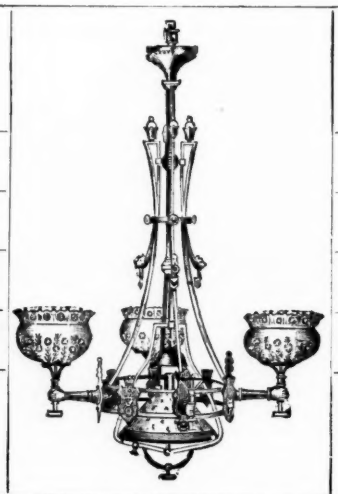
Furnished.

Combinations

in Gas

and Electric

Chandeliers.



DESIGNERS OF AND DEALERS IN

FINE ART GAS FIXTURES,

Prices same as at Factory. Special discounts given to Builders
and Contractors.

SANITARY PLUMBING

IN ALL ITS BRANCHES GIVEN SPECIAL ATTENTION.

JOBGING PROMPTLY AND CAREFULLY ATTENDED TO.

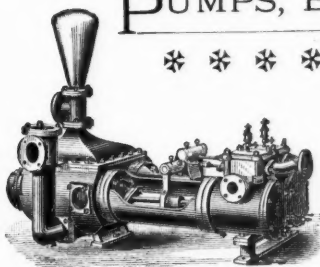
215 STATE STREET, CHICAGO.

* **JOHN DAVIS & CO.** *

DEALERS IN

STEAM HEATING AND VENTILATING APPARATUS

PUMPS, BOILERS, Etc.



* * * * *

PIPE WORK OF ALL KINDS.

69 to 79 Michigan Street,

CHICAGO.



Registered Trade Mark, May 1, 1883.



"Morton's Metal"

Champion and Cable

Sash Chains & Patented Attachments

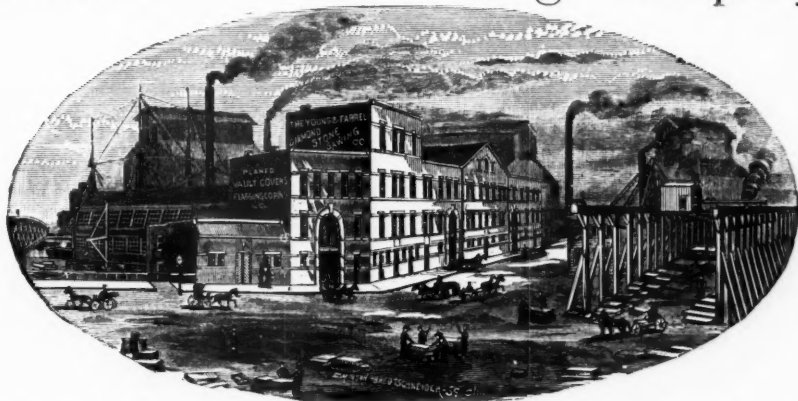
The most RELIABLE and CHEAPEST articles in the market for suspending
WINDOW SASHES.

Have great tensile strength. Can be easily applied to any window, and give satisfaction
wherever used. Samples sent to any Architect free on application. Now in use in all
the leading cities throughout the United States.

MANUFACTURED ONLY BY

THOMAS MORTON, 65 Elizabeth St., New York.

THE YOUNG & FARREL
Diamond * Stone * Sawing * Company.

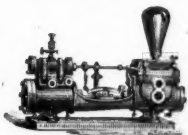


*Contractors for Cut Stone, Planed Vault Covers, Flagging, Coping, &c. Sole
Agents for the Celebrated Brinton Green Stone.*

Unequaled facilities and stock large and varied, thorough
organization and good work, and strict attention to every
order large or small.

TWELFTH & LUMBER STS., CHICAGO.

THE STANDARD STEAM PUMP.



FOR EVERY POSSIBLE SERVICE.

Strongest, Most Durable and Compact Pump in the Market.

WHEELER & TAPPAN, Sole Manufacturers.

Office, 88 W. Lake St. Works, 49, 51 and 53 N. Jefferson St., CHICAGO.
Send for Catalogue.

CORNELL UNIVERSITY.

Courses leading to degrees.

Architecture, Mechanical Engineering, Civil En-
gineering, Electrical Engineering, Mathematics,
Agriculture, Arts, Analytical Chemistry,
Chemistry and Physics, History and
Political Science, Literature,
Natural History,

Philosophy, Science, Science and Letters.

Entrance Examinations begin at 9 A. M.,
June 15 and Sept. 15, 1885. For the UNIVERSITY
REGISTER giving full information respecting ad-
mission, free scholarships, fellowships, expenses,
etc., address,

TREASURER OF CORNELL UNIVERSITY,
ITHACA, N. Y.

CHICAGO BRANCH

PRODUCERS MARBLE CO.

THOS. A. HALL, MANAGER.

Marble Tiles, Marble Wainscoting,

BUILDING MARBLE.

Telephone No. 3057.

East End Michigan Street.



**MANTELS AND—
GRATES.**

SOLE MANUFACTURERS OF THE

"PERFECTION" GRATE

—WITH—

Shaking Basket and Folding Doors, Summer Front and
Blower Combined, is the cleanest and hottest,
as well as the most economical
Grate Made.

Brass Grates and Fenders, etc.,

Bronze Grates, Fenders and Facings

TRENT ART TILES FOR FACINGS,
HEARTHES, ETC.

Send for Catalogue. Say where you got our address.

WM. L. PERKINS & CO.,

MANUFACTURERS,

OFFICE AND SALESROOMS:

180 Elm Street, - CINCINNATI, O.

Factory: 98 & 100 E. Second St.

*READERS will please mention THE IN-
LAND ARCHITECT AND BUILDER
when corresponding with Advertisers.*

E. A. HITCHCOCK, President.

GEO. F. NEALE, Manager.

C. W. BARNES, Treasurer.

CRYSTAL PLATE-GLASS COMPANY,

CAPITAL, - \$1,500,000.

MANUFACTURERS OF

POLISHED PLATE-GLASS,

SKYLIGHT AND FLOORING GLASS.

AGENCIES:

Chicago, George F. Kimball; Cincinnati, Albert Boehmer's Sons;
Minneapolis, Janney, Semple & Co.

AGENCIES:

St. Louis, F. A. Drew Glass Co.; Kansas City, Jno. A. McDonald & Co.;
St. Paul, Thomas H. Drew.

FACTORIES:

CRYSTAL CITY, MO.

GILBERT S. KING, Eastern Agt.
102 Chambers St., Room 40, New York.

ST. LOUIS, MO.

W. H. WELLS & BRO. CO.

48 and 50 Franklin Street,

—CHICAGO—

STAINED AND CUT GLASS.

*—Designs and Estimates Furnished.

Exhibit of materials to be seen at the Permanent
Exhibit of Building Materials, 15 Washington Street,
Chicago.

HEALY & MILLET,

STAINED GLASS WORKS

223 & 225 WABASH AVENUE, CHICAGO.

FINE CABINET WORK
WOOD MANTELS · WALL PAPERS
AND · INTERIOR · DECORATIONS.
ORNAMENTAL TILE & FLOORING
SPECIAL CONTRACTS FOR CHURCHES.

McCULLY & MILES,

Stained Glass,

1, 3, 5, 7 & 9 MADISON ST.,

Cor. Michigan Avenue. CHICAGO, ILL.

F. D. KINSELLA & CO.

Stained Glass Works,

85 JACKSON STREET,
CHICAGO.

GEO. A. MISCH,

MANUFACTURER OF

STAINED,

Enameled, Embossed, Cut and Ground

GLASS,

217 E. WASHINGTON STREET,

Bet. Franklin & Market Sts.

CHICAGO.

F. A. DREW, President.

C. W. BARNES, Sec'y and Treas.

—French Silvering—

—Ornamental Glass Company—

914 St. Charles St.
St. Louis, Mo.

Manufacturers of

Art Stained+Glass+Sand+Blas+
* Cut & Embossed Glass,+
Mirrors & Beveled Glass.

Special designs for
Stained Glass
on application
old & damaged
Mirrors resilvered.

GEO. F. KIMBALL,

IMPORTER AND DEALER IN

Polished Plate and Window Glass, Coach, Car and Picture Glass,
FRENCH AND GERMAN MIRROR PLATES,
45 and 47 JACKSON STREET, Bet. State St. and Wabash Ave.,
CHICAGO.

STAINED GLASS

—HAND-BOOK BY MAIL—

METALWORK

—HAND-BOOK BY MAIL—

J. & R. LAMB.

59 CARMINE ST., NEW YORK,

Church Furnishers,

DECORATORS

AND DESIGNERS.

BANNERS

—HAND-BOOK BY MAIL—

WOODWORK

—HAND-BOOK BY MAIL—

Decorative Glass Mfg. Co.

218 Wabash Ave., Chicago,

Makes a specialty of embodying in every piece STAINED
GLASS which leaves its factory, however simple or elabor-
ate, a perfect harmony of colors.

STAINED GLASS

BY NEW PROCESS—VALUABLE IMPROVEMENT.

SEND FOR CIRCULAR.

READERS, in corresponding with advertisers, will
confer a particular favor upon both the advertisers and
publishers by mentioning this Journal.

J. K. RUSSELL.

ROBT. W. WEGG.

J. K. RUSSELL & CO.

Manufacturers and Wholesale Dealers in

SASH, DOORS, BLINDS,

Moldings, Stair Work, Etc.

80 to 92 Fulton Street, CHICAGO.

TELEPHONE No. 4327.

Ornamental Hardwood Work a Specialty.

Roofs.

CHAS. H. CONNER,
LOUISVILLE, KY.Large Facilities —for—
Slating Contracts

WILL BID ANYWHERE.

TO
ARCHITECTS, BUILDERS,
MANTEL MAKERS
and OTHERS.

THE GLEASON WOOD
ORNAMENT CO.,
OF GRAND RAPIDS, MICH.,

Desires to call the attention of the above
to their line of goods for
interior decoration.

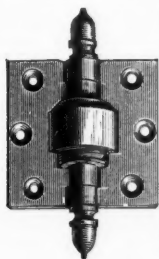
CATALOGUE ON APPLICATION.

LEBOSQUET
BROS.

Steam Heating
APPARATUS
Combining the Latest Improvements.
Heating Private Residences a Specialty.

Send for Descriptive Pamphlet.

LEBOSQUET BROS., 75 Union St., Boston.



Union Spring Hinges

ARE

Simple, Easily Set, Cannot be
Put on Wrong.

They work either way, right or left.
All sizes. Single or double acting.
For Wire Screens or Light Doors,
they have no equal.

If your merchant does not keep
them, write to

M. W. ROBINSON, Sole Agt.
79 Chambers St., NEW YORK.

C. F. HOLLINGSHEAD,

WROUGHT-IRON RAILINGS,



FENCES,

Roof-Cresting, Finials, Etc.

Doors, Shutters,

Light Iron Roof-Trusses,
Fire Escapes, etc.

COOPER'S POINT IRONWORKS,

CAMDEN, N. J.

POWELL'S PATENT "STAR"
Bath, Basin, Sink & Tray Plugs

WITH
RUBBER
STOPPERS.



Mam'd by Wm. Powell & Co.
52 and 54 Plum Street,
CINCINNATI, OHIO.

No more denting of Copper Bath Tubs, no cracking or
breaking of earthenware Basins, with the use of these
Rubber Plugs. Plumbers all prefer them; architects
specify them generally. Sold by Plumbers everywhere.

WALPOLE MORTAR BLACK.

Can be seen at Permanent Exhibit and Exchange,
15 Washington Street.

The Original and Best.

The ONLY ONE that has stood the test of time. It im-
proves the mortar and is cheaper and better than lampblack.

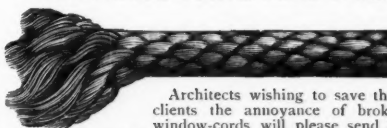
Beware of imitations, and use only the
"WALPOLE."

For circulars and prices apply to

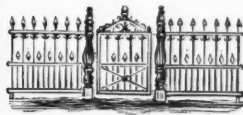
HENRY D. DUPEE, Proprietor,
44 Oliver St., BOSTON.

ADAMS & TROWBRIDGE, Agents.
198 Lake St., CHICAGO, ILL.

Solid Braided Cotton Sash Cord.



Architects wishing to save their
clients the annoyance of broken
window-cords will please send for
samples to the SAMSON CORDAGE WORKS.
J. P. TOLMAN & CO., 164 High St., Boston.



The Fred J. Meyers M'fg Co.

MANUFACTURERS OF

WROUGHT-IRON FENCES,

ROOF CRESTING, JAILS, AND ALL KINDS OF BUILDING IRON-WORK.

Also Wire Bank and Office Railing,

WIRE WINDOW-GUARDS,

And Every Description of Wire Work.



Send for Illustrated Catalogue No. 33.

OFFICE AND WORKS:

419, 421 & 423 MADISON STREET, COVINGTON, KY.



THE AMERICAN BANGOR SLATE CO.

Miners and Manufacturers of PENNSYLVANIA

BLACK ROOFING SLATE,

FLAGGING and other products from the famous Bangor Slate beds. The products of these beds
are of uniform color, and are equal in strength and quality to any produced in Penn-
sylvania. It will pay build-
ers and contractors to address THE AMERICAN BANGOR SLATE CO. BANGOR, PA



Troy Laundry Machinery Co. (Limited),

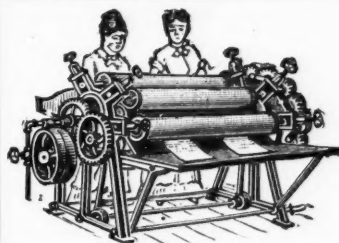
WASHING MACHINES,

Centrifugal Wringers, Steam Mangles, Ironing
Machines.

Complete Outfits for Hotels and Public Institutions our
specialty. Send for illustrated catalogue.

648 & 650 Fulton St., Troy, N. Y.

297 Wabash Ave., Chicago. 32 Dey St., New York.



GEO. W. GORDON,

—DEALER IN—

Improved Laundry Machinery

SUPPLIES and DRY-ROOM FRAMES.

295 WABASH AVE.,

CHICAGO.

W. E. WYATT & CO.,

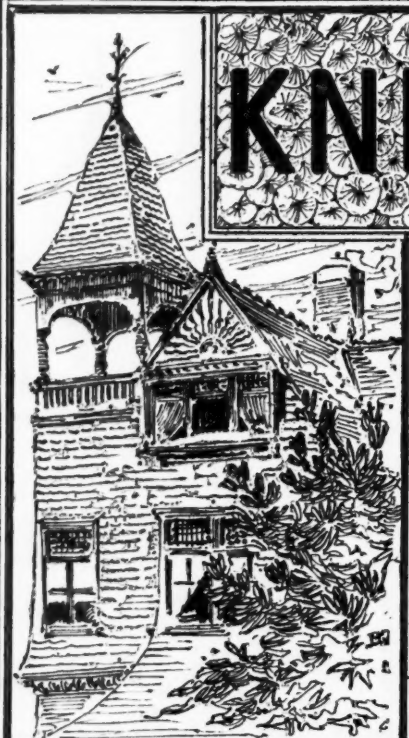
Successors to J. S. WHEELER & CO.,

GRAVEL ROOFERS

—AND DEALERS IN ROOFING MATERIALS,

4531 STATE ST. & 157 LA SALLE ST., - - - CHICAGO.

TELEPHONE No. 438 & 9925. Prices as low as any responsible house. Country as well as city work promptly done.



KNISELY & MILLER

Slate, Tin and Corrugated Iron Roofers,
— MANUFACTURERS —

Galvanized Iron Cornices.

THE HAYES
PATENT
SKYLIGHT



Under License, War-
ranted
NOT TO LEAK
From outside storm or
inside condensation.

— CORRUGATED IRON FOR ROOFING. —

⊙ 129 & 131 S. CLINTON ST. CHICAGO ⊙

MESKER & BRO.

GALVANIZED IRON
CORNICES WORKS

421 & 425 SOUTH 6th ST. ST. LOUIS.
DESIGNS & ESTIMATES
— FURNISHED & APPLICATION

PETER E. POLI,
AND
DESIGNER.



PLASTER
CENTER-PIECES.
MODEL
AND
DESIGNER.

BRACKETS AND CORNICES,
No. 21 Quincy St., CHICAGO.

BOSTON TERRA COTTA CO.



394 FEDERAL ST. BOSTON MASS

*Illustrated Catalogue of 100 pages sent to
ARCHITECTS, BUILDERS and OWNERS upon appli-
cation accompanied by business card.*

HALEWIS

394-390 FIRST ST. SO. BOSTON

DYCKERHOFF PORTLAND CEMENT

Is superior to any other Portland Cement made. It is very finely ground, always uniform and reliable, and of such extraordinary strength, that it will permit the addition of 25 per cent more sand, etc., than other well known Portland Cements, and produce the most durable work. It is unalterable in volume and not liable to crack.

6,000 barrels have been used in the foundations of the Bartholdi Statue of Liberty, and it has also been used in the construction of the Washington Monument at Washington.

Circular with Testimonials and Tests sent on application.

MEACHAM & WRIGHT, Agents,
98 MARKET STREET, CHICAGO, ILL.

E. THIELE,
78 WILLIAM STREET, NEW YORK
Sole Agent United States.

The Metallic **CENTER PIECE** *For Ceilings*

Supersedes Stucco, and is Positively Unequaled.

MANUFACTURED BY

WARREN BROS.

47 and 49 West Lake Street,

SEND FOR CUTS. CHICAGO, ILL.

Samples at Permanent Exhibit and Exchange,
Cor. Washington St. and Wabash Ave.

J. BARTOLOMEI & CO.

Manufacturers of

Ornamental Centers

Center Pieces, Decorative Cornice,

Brackets, Drops, Panels for Ceilings, Etc.

10 NORTH HALSTED ST., CHICAGO, ILL.

Church and Theater Work a Specialty.

INNES & CO., CINCINNATI, OHIO.

Manufacturers of the

KENSINGTON ART TILES, ETC.,

Also, MANTELS, GRATES AND FIREPLACE DECORATIONS.

LAWRENCE MENDENHALL,

Manufacturers' Agent,

Room 16, N. W. cor. 4th and Race,
or Box 117, Builder's Exchange,

CINCINNATI, O.

Huginin Window Balances. No Weights. No Cords.

Runyon's Wood Mosaic Flooring.

Hartman's Sliding Inside Shutters.

Dudley Blind and Shutter Worker.

Wilber's Barn Door Hangers.

North's Automatic Blind Awning Fixtures

HARDWARE SPECIALTIES INTRODUCED AND SOLD.

CORRESPONDENCE SOLICITED.

CHICAGO CONTRACTORS.

MASONS.

FOX & HINDS, MASON CONTRACTORS, Box 49, BUILDERS AND TRADERS' EXCHANGE.	C. & A. PRICE, CONTRACTORS, 108 HOME INSURANCE BUILDING, CHICAGO.	FOS. DOWNEY, MASON AND GENERAL CONTRACTOR, OFFICE, ROOM 10, 159 LA SALLE ST. Builders & Traders' Exchange.
WILLIAM D. PRICE, SUCCESSOR TO WM. D. PRICE & SON, Mason, Contractor and Builder, OFFICE: 108 HOME INSURANCE BUILDING.	JOHN GRIFFITHS, Mason and Building Contractor, Office—No. 24 Howland Block, Telephone 2256. CHICAGO.	McBEATH & ROWE, STONE, IRON AND TERRA-COTTA SETTING, Office, 3019 Butterfield Street.

CARPENTERS.

WM. MAJOR, CARPENTER & BUILDER, 66 PACIFIC AVENUE, CHICAGO.	THOS. SOLLITT & SON, CARPENTERS, No. 159 LA SALLE STREET, ROOM 32, CHICAGO, - - ILLINOIS.	M. B. SWEZEY, *—CARPENTER,—* 120 20th Street, Chicago.
--	--	--

PLUMBERS AND GASFITTERS.

MARTIN MOYLAN, PLUMBER, 103 TWENTY SECOND STREET, CHICAGO.	E. BAGGOT, SANITARY PLUMBING, GASFITTING, PLUMBING MATERIAL AND FINE CHANDELIERS, 5th AVE. AND MADISON STREET.	HUGH WATT, PLUMBER AND GASFITTER, 103 E. VAN BUREN ST. Telephone No. 16. RELIABLE SANITARY PLUMBING A SPECIALTY
PETER BECKER, PRACTICAL PLUMBER & GASFITTER, 481 & 483 S. HALSTED ST., Near 12th Street.	ALEXANDER W. MURRAY, SANITARY PLUMBER 811 W. Madison St.	P. NACEY, PLUMBER AND GASFITTER, 1209 STATE ST., NEAR 12TH, TELEPHONE 8323.

PAINTERS AND DECORATORS.

S. S. BARRY & SON, 258 & 260 WABASH AVE., Artists' and Painters' Supplies, House, Sign & Decorative Painters.	WILLIAM PHILLIPSON, DECORATOR. Wall Paper and Papier-Maché, OWN IMPORTATION. No. 245 WABASH AVENUE.	T. NELSON & SON, PAINTERS & DECORATORS, 73 JACKSON STREET, 209 THIRTY-FIRST STREET.
JAMES REILLY. ALFRED BARKER. REILLY & BARKER, *—PAINTERS,—* DEALERS IN WALL PAPER, ETC., 519 W. VAN BUREN ST. & 520 W. MADISON ST.	E. H. HUMPHREY, PAINTER, DECORATOR AND PAPER HANGER, 102 FRANKLIN ST., Cor. Washington. Box 240, Builders and Traders' Exchange.	Caretti, Hogan & Co., HOUSE AND FRESCO PAINTERS, AND MANUFACTURERS OF MOSAIC MARBLE FLOORING, 142 LA SALLE ST., ROOM 44, and 429 STATE ST.

MISCELLANEOUS.

LARRABEE & NORTH, BUILDERS' HARDWARE, 168 Lake Street. Surveyors and Engineers Instruments.	R. HUGHES, SLATE & METAL ROOFING, Galvanized Iron Cornices, 319 & 321 So. CLINTON STREET.	THOMAS MOULDING, MANUFACTURER & DEALER IN Indiana Red Pressed & Common, also Chicago Common BRICK Drain Tile, Flue Tile, Hollow Partition Brick, Etc., also Manufac- turer of a superior article of TERRA COTTA COPING, and Agent for Zanesville and Kautz Brick. Office: Rooms 66 & 67 Bryan Block, 162 La Salle St., TELEPHONE 117. HARRY A. LYON. CHICAGO.
W. H. WARREN, MANUFACTURER OF Fine Hardwood Interior Finishings, Wood Mantels, Office & Library Furniture, ESTIMATES FURNISHED. 249 & 251 NORTH WELLS STREET.	THE HOLBROOK CO., HARDWOOD LUMBER, Grove & Eighteenth St., CHICAGO.	WM. F. KELLETT, Manufacturer of PLASTER DECORATIONS 49 E. Van Buren St.

GEO. ROTHAGE & CO.,

SUCCESSORS TO

R. PHILIP GORMULIY,

MANUFACTURERS OF

GALVANIZED IRON CORNICES,
WINDOW CAPS,
VENTILATORS,
FINIALS, ETC.

TIN, SLATE, AND CORRUGATED-IRON

ROOFING,

PATENT FIRE AND WATER-PROOF

METALLIC SKYLIGHTS,

228 & 230 MICHIGAN STREET,
CHICAGO.



IRON
ROOFING
SIDING, CEILING,
ARCHES AND LATH.
CINCINNATI
CORRUGATING CO.
CINCINNATI, O.
SEND FOR ILLUSTRATED CATALOGUE.

CRIMPED

READERS will please mention the INLAND ARCHITECT AND BUILDER when
corresponding with Advertisers.

PRICES OF LABOR.

	Akron, O.	Austin, Tex.	Bloomington, Ind.	Chicago, Ill.	Cheyenne, W. T.	Cincinnati, O.	Dubuque, Ia.	Des Moines, Ia.	Detroit, Mich.	Evansville, Ind.	Fargo, D. T.	Hastings, Neb.	Joliet, Ill.	Kansas City, Mo.	Minneapolis, Minn.	Omaha, Neb.	Sioux City, Ia.	St. Louis, Mo.	Toledo, O.
Bricklayer.....	\$3 00	\$4 00	\$4 00	3 50@4 00	\$6 00	\$4 50	\$4 00	\$4 00	3 00@3 25	\$3 75	\$3 50	\$4 00	\$4 00	\$3 50	\$4 00	\$4 00	\$3 50	\$4 50	\$4 50
Brickmason (Front).....	5 00	5 00	5 00	4 50@5 00	10 00	4 50	5 00	4 50	3 25	4 50	4 00	4 00	4 00	4 00	6 00	2 50	3 75	5 00	6 00
Carpenter.....	2 50	2 50	2 50	2 50@2 75	3 50	2 50	2 75	2 50	1 50@1 75	2 00	3 00	2 25	2 50	3 00	2 50	2 50	2 50	3 00	3 00
Cabinetmaker.....					3 00	3 00		3 00	2 00@2 50					3 50	3 00	3 00	2 50	3 00	3 00
Finisher.....		3 00		3 00	3 50	3 00		3 50	1 50@1 75			2 50		3 00	3 00	3 00	2 75	3 00	3 00
Gasfitter.....				2 50@3 00	3 25	3 25	2 50	2 00	2 00@3 50	3 50	3 00	3 00	2 50	3 00	3 50	4 00	4 00	3 50	3 50
Laborer.....	1 75	1 50	1 50	1 25@1 75	2 50	1 50	1 75	1 50	1 50	2 00	1 75	1 50	1 50	2 00	2 00	2 00	1 50	1 50	2 00
Painter.....	2 25	2 50		2 25@2 50	3 00	2 50	2 50	2 25	2 25	2 50	2 50	2 00	2 25	2 50	2 50	2 50	2 50	2 50	3 00
Glazier.....					3 50	3 50	3 00	3 50	2 25	3 00	3 00	3 00	3 00	3 00	3 50	3 50	3 50	3 50	4 00
Plasterer.....	2 50@4 00	3 50	3 50	3 50@4 00	4 00	3 50	3 00	3 00	2 00@2 50	5 00	3 00	3 00	4 00	3 50	3 50	3 50	3 50	3 50	4 00
Plumber.....	2 50@3 00	3 50	3 50	3 50@4 00	4 00	3 50	3 00	3 00	2 00@2 50	5 00	3 00	3 00	4 00	3 50	3 50	3 50	3 50	3 50	4 00
Stonemason.....	3 00	3 50	2 50	4 00	5 00	3 50	3 50	3 00	3 00	2 50	3 00	3 00	3 00	3 00	3 00	3 00	3 00	3 00	4 00
Carver.....	5 00	5 00	4 00	4 50@5 00	4 50	5 50	5 00	5 00	5 00	5 00				4 00	5 00	4 00	4 00	4 00	6 00
Stonecutter.....	3 50	4 00	4 00	3 75@4 00	5 50	3 50	3 50	4 00	3 00	3 00		4 00	3 50	2 75	4 00	4 00	4 00	4 00	4 00
Stonesetter.....	3 50	3 50	3 50	4 00	4 00	4 00	4 50	3 25	3 50	3 50	3 00	3 00	3 00	3 50	4 00	4 00	4 00	4 00	4 50
Roofer (Tin).....			2 75	2 75	3 25	2 75	2 50	2 00	2 50	3 00	3 00	3 00	2 50	2 75	4 00	3 00	2 50	2 50	2 50
Slater.....			2 75	3 00	3 25	3 25	3 50	3 00	2 00@2 75	3 00				2 50	3 00	3 00	3 00	3 00	3 50
Stairbuilder.....		3 50	3 00	3 25@3 75	4 50	2 75	3 25	2 25@2 50	3 00	5 00			4 00	3 50	3 00	5 00	3 00	3 00	5 50
Steamfitter.....				3 50	3 50	2 50	3 50	3 25	2 00@2 50		3 00	3 50	3 00	3 50	3 50	4 00	3 50	3 50	3 00

PRICES OF BUILDING MATERIALS.

CHICAGO, August 10, 1885.

Common.....\$ 6 50@7 00

Fronts:

Chicago pressed (Anderson).....22 00@29 00

St. Louis pressed.....27 00

Purinton Kimball "Standard".....26 00

Indiana pressed.....16 00@28 00

Philadelphia pressed.....42 00@45 00

Milwaukee pressed.....25 00

Trenton.....38 00

Zanesville (Harris Bros.).....29 00

Perth Amboy Buff.....50 00

" Mottled.....50 00

Moulded:

Chicago (Anderson).....\$65 00@300 00

St. Louis.....50 00@125 00

Indiana.....25 00@50 00

Zanesville (Harris Bros.).....75 00

Enamelled:

Enamelled edge.....90 00

Enamelled edge and end.....105 00

Enamelled (Harris Bros.).....90 00

CEMENT, LIME, ETC.

Chicago Lime.....\$ 0 65@75

Wisconsin.....96@1 00

Milwaukee, Utica, Louisville, Akron.....1 00@1 25

Portland.....3 25@3 50

Keene's coarse.....7 50@9 00

Keene's fine.....11 00@12 50

Plaster of Paris.....1 75@2 00

Hair (cattle), per bu.....20@25

Hair (goat), per bu.....40

Sand (lake shore), per yard.....1 00@1 25

STONE.

(Quotations furnished by J. S. F. Batchen.)

Limestone.....Per cubic foot.

Buff Bedford.....50

Blue Bedford.....65

Hoosier blue Bedford.....65

" buff.....50

Joliet.....35@50

Lemont.....40@50

Salem Oolitic.....50

Foundation:

Dimension.....20@25

Rubble, per cord.....8 00

Sidewalk.....40@1 00

Planed.....40@1 00

Sandstone:

Hummelstown Brown Stone.....1 50

Brown Connecticut.....1 50

Amherst.....60@75

Berea.....55@65

Brown Potomac.....1 25

Carbondell.....1 10

Malone Blue.....55@65

Long Meadow Brown Stone.....55

" Red.....65

New York bluestone.....1 35@1 40

Marble:

Italian, veined.....4 00

Marble, continued:

Tennessee, red.....2 50@5 00

Tennessee, Knoxville.....3 00

Vermont, white.....3 50@8 00

Ophite.....4 50@5 00

Armodite.....1 50

Slate:

Roofing, Vermont, per square:

Green.....6 50

Purple.....6 50

Red.....13 50

Black, Lehigh.....5 75@6 75

Black, Chapman's.....7 30@8 00

Black, Bangor.....5 50@5 80

LUMBER, CAR LOTS.

(Lumbermen's Exchange, 250 So. Water St.)

Boards:

(Ordinary Dimensions.)

Pine, 1st quality, clear.....\$44 00@46 00

Pine, 2d quality.....44 00@46 00

Pine, 3d quality.....40 00@42 00

Common.....12 00@12 50

Siding:

Pine.....9 00@20 50

Framing Timber:

Pine.....11 00@13 00

Laths:

Pine.....1 75

Shingles:

Pine (sawed).....2 00@2 45

Miscellaneous:

Pickets, pine.....8@21

Posts, cedar.....9 00@21 00

Pine, yellow southern.....30 00@35 00

HARDWOODS.

(Quotations furnished by The Holbrook Co.)

Walnut, 1st & 2d, 1 in.....\$ 75 00@80 00

1 1/2 in.....80 00@100 00

Walnut, counter top.....15@20

Ash, 1st & 2d, 1 in.....32 00@35 00

1 1/2 in.....35 00@40 00

Maple, 1st & 2d, 1 in.....25 00@35 00

1 1/2 in.....35 00@40 00

Oak, white, 1st & 2d, 1 in.....30 00@35 00

1 1/2 in.....35 00@40 00

Oak, red, 1st & 2d, 1 in.....30 00@35 00

1 1/2 in.....35 00@40 00

Oak, quarter sawed.....40 00@50 00

Cherry, 1st & 2d, 1 in.....80 00@85 00

1 1/2 in.....95 00@100 00

2 1/2 in.....25 00@30 00

Whitewood, 1st & 2d, 1 1/4, 1 1/2 & 2 in.....28 00@32 00

2 1/2, 3 & 4 in.....35 00@40 00

Birch, red, 1st & 2d.....35 00@40 00

Butternut, 1st & 2d, 1 in.....50 00@55 00

1 1/2 in.....55 00@60 00

Sycamore, 1st & 2d.....20 00@25 00

Gum, red, 1st & 2d, 1 in.....25 00@30 00

1 1/2 in.....35 00@40 00

FINISHING WOODS.

Mahogany, Mexican, per lb.....15@20

Mahogany, St. Domingo, per lb.....20@25

Finishing Woods, continued:

Mahogany, Cuba, per lb.....12@20

Rosewood, per lb.....5@15

CALIFORNIA WOODS, ETC.

(Quotations furnished by Charles B. Crombie & Co.)

Redwood lumber.....\$60 00@65 00

Redwood shingles—square, hexagon, round,

diamond and octagon, small quantities.....6 50@7 00

Mexican Spanish cedar.....150 00@300 00

California pine.....65 00@75 00

Georgia Yellow Pine:

Flooring:

1st & 2d clear, 4 in.....35 00

1st & 2d clear, 6 in.....35 00

Boards, D 1 s.....33 00@35 00

Beaded Ceiling:

1st & 2d clear, 1/2 in.....18 00@21 00

3/4 in.....26 00@30 00

7/8 in.....33 00@36 00

Step plank:

1st & 2d clear 1 1/4, 1 1/2 & 2 in.....33 00@35 00

Georgia Cypress:

Lumber, 1st & 2d clear.....35 00@40 00

Shingles.....3 75@4 25

Frame Oak Lumber and Timber:

Plank.....23 00@25 00

Timber.....24 00@30 00

PAINT, ETC.

Dry. Per lb.

White lead (American).....5 1/2 5 1/4

Zinc, white (American).....8@10 10@12

Red, Venetian.....2@6@12

Red, Vermilion.....20@50 40@1 00

Red, Indian (English).....12@22

Yellow, Ochre.....2@15

Yellow, Chrome.....18@25

Green, Chrome.....12@20

Green, Paris.....20@35

Black, lamp.....8@30

Blue, ultramarine.....16@35

Putty.....3

Whiting (dry).....1@2

Paris white (English).....2@3

Litharge (American).....6@10

Sienna, burnt.....9@16

Umber, burnt.....7@16

Oil, linseed (raw), per gal.....44

Oil, linseed (boiled).....47

Turpentine.....40

Varnish, coach.....1 25@2 00

Varnish, shellac.....3 25@4 00

HARDWARE.

Nails:

Spikes, wrought.....Per Keg.

Tenpenny, common.....\$3 45

Shingle, 4's.....2 25

Lath, 3's fine.....3 00

Steel nails, 10's to 60's.....3 25

For steel nails add 20 c. per keg.

For finishing-nails add \$1.50 per keg.

For casing-nails add 75 c. per keg.

ZANE & CO'S PATENT "THE SANITARY" WATER CLOSET.

With Offset or Straight Outlet.

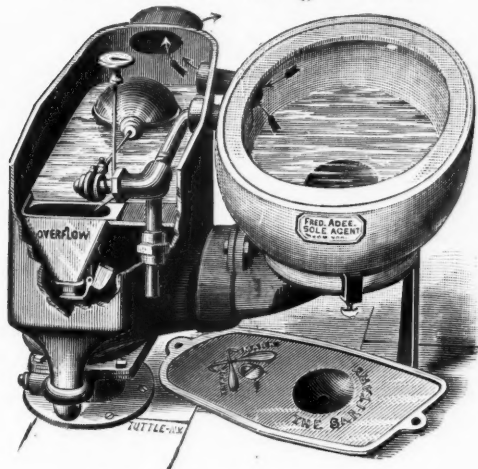


FIG. 1. STRAIGHT OUTLET.

With Painted or Enameled Reservoir.

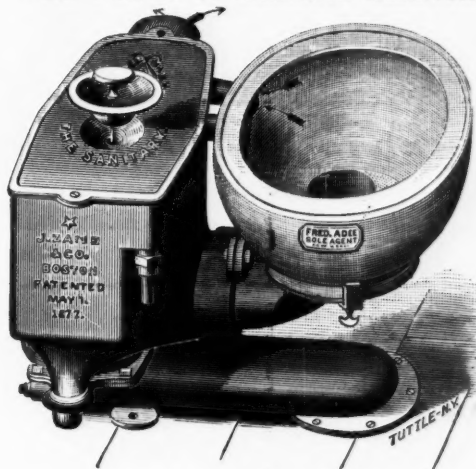


FIG. 2. WITH OFFSET.

The Best Water Closet in Every Respect that Has Ever Been Produced.

The general construction being such that the reservoir, which is thoroughly ventilated, cannot contain excreta or other offensive matter, and of sufficient capacity to hold enough water (about four gallons) to flush the soil pipe at each discharge of the closet, leaving the soil pipes free and clean their entire length, and so simple that it is difficult to set it so that it will not work. The only directions necessary being to set it so that the reservoir will be level and adjust the float to give the desired quantity of water.

These water closets are now made (and kept in stock by the undersigned) with a large (full 1 inch) water-way through ball-cock, expressly for use under pressure from cistern over head, say five to thirty feet above the closet, thereby securing a first-class flush from very low pressure.

We also make them with a reduced water-way in ball-cock for extremely heavy pressure, say 60 to 150 lbs. per square inch.

Where the pressure to be resisted is between 15 lbs. and 60 lbs. our regular closet, of which there are at present about 20,000 in use, will be found reliable in every case, but for very high or very low pressure (*which should be stated when order is given*) those with very large or very small water-way through the ball-cock will in either case secure a perfect flush.

Parties ordering water closets for use under cisterns or for use under excessive pressure, can now be supplied with Zane's "THE SANITARY" Water Closet, which, since 1878, has given greater satisfaction because of its reliability, durability and general perfection of construction than any other water closet ever placed on the market.

Every Zane's "THE Sanitary" warranted.

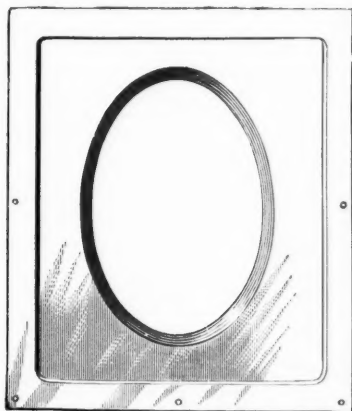
Price with Painted Reservoir, - - - -	\$32 00	} Box and cartage extra.
" Enameled Reservoir, - - - -	36 00	

NOTICE.

In calling attention to the articles illustrated we think the length of time which has elapsed since they were first introduced and the great satisfaction which they have always given—which is conclusively proven by the immense number already sold and now in use—justifies us in saying that they have no superior.

Zane & Co's "THE SANITARY" Water Closet was patented May 1st, 1877, and during the balance of that year only seven were sold, but since that time the sales have so rapidly increased that it is difficult to meet the present demand, there being about twenty thousand now in use. We attribute this very satisfactory state of our affairs to the fact that after having produced and introduced a strictly good article we have earnestly endeavored to not only keep up the high standard of quality, but to improve it where it was possible, and feel that we are really not claiming too much when we say they are the **best in the world.**

FRED ADEE & CO.



FRED ADEE'S
PATENTED

ENAMELED DRIP TRAYS

Made from stamped sheet iron, of such size and form as to be adaptable to most of the Water Closets and Hoppers now in use, and enameled on both sides. They are very thin and do not perceptibly increase the height of seat; have no raised edges to be let into the wood (requiring the services of a carpenter), but can readily be put in place by the plumber. They are to a certain extent flexible, are very light—not liable to be broken, and while presenting a much better appearance are in every respect superior to those made of cast iron, which can only be enameled on top, leaving the underside to rust and become foul.

Price, Plain White, - - - - \$2 50 each.
" Decorated, - - - - from \$5 00 to 7 50 "

In ordering please state what Water Closet or Hopper they are to fit.

FRED ADEE & CO.,

PLUMBERS' SUPPLIES,

52 Cliff Street, - NEW YORK.



STANDARD LOCKS

WITH NICKEL-PLATED STEEL KEYS.

A line of *Superior* Mortise Tumbler Locks, suitable for all purposes, of great security, particularly adapted to the inside furnishing of Dwellings, Public Buildings, etc.

CATALOGUES ON APPLICATION.

THE YALE & TOWNE M'FG CO.

STANFORD, CONN.

CHICAGO: 64 Lake Street.

BOSTON: 224 Franklin Street.

NEW YORK: 62 Reade Street.

PHILADELPHIA: 15 N. Sixth Street.

*Hallowell & Bodwell**Granite Companies,*DEALERS IN ALL VARIETIES OF **GRANITES**

ESTIMATES FURNISHED AND WORK PROMPTLY EXECUTED.

A fine collection of samples can be seen at the Permanent Exhibit of Building Materials, or at our office,

174 La Salle Street, Chicago, Ill.

GEO. F. BODWELL, Western Manager.



**McCAW,
STEVENSON
& ORR,
PATENT GLACIER,
SUBSTITUTE FOR
STAINED GLASS.**

Easily applied to
WINDOWS, TRANSOMS, ETC.

At a very small cost.

PATTERN BOOK, PRICE
LIST, ETC.

FORWARDED BY MAIL.

Price 25 Cents, by

McCaw, Stevenson & Orr,

32 Broadway,

NEW YORK.

M. BENNER.

W. D. KENT

M. BENNER & Co.

Structural and Ornamental

Iron Works.

WROUGHT-IRON FENCES,
ROOF CRESTING,
BALCONY AND STAIR RAILING,

Iron Doors and Shutters, Stable Fixtures, Jail
Work, Iron Bedsteads, Prismatic Lights,
Lawn Furniture,

FIRE ESCAPES AND STAND PIPES,

AND ALL DESCRIPTIONS OF

BUILDING AND MACHINERY CASTINGS.

Send for our new Illustrated Catalogue.

No. 260 S. Jefferson Street,
CHICAGO.

CHICAGO
Anderson Pressed Brick
COMPANY.

MANUFACTURERS OF
Plain and
Ornamental
PRESSED BRICK

OFFICE:
157 La Salle Street,
CHICAGO.

THE INLAND ARCHITECT AND BUILDER.

Vol. VI.

No. 1.

AUGUST, 1885.

THE INLAND ARCHITECT AND BUILDER

A Monthly Journal Devoted to

ARCHITECTURE,

Construction, Decoration and Furnishing

IN THE WEST.

OFFICIAL ORGAN OF THE WESTERN ASSOCIATION OF ARCHITECTS
(A NATIONAL ORGANIZATION.)

PRICE \$2.00 PER YEAR.

L. MULLER, Jr., Manager. R. C. McLEAN, Managing Editor.
C. E. ILLSLEY, Associate Editor.

PUBLISHED BY THE INLAND PUBLISHING CO.
19 TRIBUNE BUILDING, CHICAGO, ILL.

SPECIAL CONTRIBUTORS:

JOHN W. ROOT,	WM. PAUL GERHARD,	W. L. B. JENNEY.
BENNETTE WILLIAMS,	P. B. WIGHT,	E. H. KETCHAM,
D. H. BURNHAM,	J. H. CARPENTER,	IRVING K. POND,

Architects — Draughtsmen.

Draughtsmen out of employment should send us their names, as architects are continually inquiring for their services. Architects are also requested, when in need of draughtsmen, to make their wants known to us.

THE President of the Western Association has sent notices of this convention to the Royal Institute of British Architects, London, and to the Société Centrale des Architectes, Paris, with a suggestion that should any of their members or associates contemplate a trip to this country in the coming fall, they might, perhaps, wish to know of this convention of western architects, and arrange their journey so as to be present. While foreign architects have generally shown little disposition to visit America with professional interest, a few occasionally venture over, and the practice is perhaps slowly increasing. To such visitors, if properly informed in advance, our conventions could not fail to be attractive, both for their discussions and for the convenient opportunity they would afford of meeting representative American architects; while the latter would be equally pleased in this manner to make or renew the acquaintance of their foreign brethren. Thus our annual conventions would gain in interest and value to all, and would furnish most agreeable occasions for cementing anew the bond of sympathy and fellowship between the architectural profession in the old world and in the new.

BETWEEN books and periodicals there is a good deal of sanitary literature afloat, and it yearly increases in amount. Some of it is good, practicable, useful; but much of it brings to mind Robert Burns' "Address to the Unco' Guid." It would tax an architect, who had nothing to do but read, and nothing to read but hygienic print, to keep track of this monthly and yearly flood of sanitary advice; collate it, digest it, and think how he would endeavor to put it in practice, if he could spare the time. A natural consequence

is the evolution of the "Sanitary Engineer," as distinct from the civil engineer and the architect, and a growing tendency to his intervention in what architects particularly have considered their exclusive field, the planning and construction of buildings. Not infrequently, in the published accounts of some noteworthy bank or office building, or costly residence, we find, with or without the name of the architect who designed and superintended it, the announcement that "the plumbing arrangements were planned and executed under the direction of Mr. —, sanitary engineer." As this tendency is at present on the increase, and as it implies that architects are not competent to plan and superintend the plumbing details of a healthful building, it will soon be an important matter for the architectural profession to consider. Are they prepared to admit their incompetency in this department, and turn it over to the sanitary engineer, or will they adopt some other course — and what?

THE contrast between modern plumbing, of the most advanced type, and recent plumbing of but a few years ago is marked, and, to our mind, not wholly in favor of the former. People are still young who remember the time when a house which discharged all its wastes directly into the public sewer without trap, valve, vent, or any other refinement or obstruction, was considered perfect in a sanitary regard. There are many hundreds, we may say thousands, of such houses now existing, inhabited by their original occupants, who are now, and have always been, as free from zymotic sickness as any of their neighbors, protected by the very latest refinement of plumbing apparatus. Sanitary science, particularly in its practical application, still rests upon too imperfect, heterogeneous, and ill compacted a basis of proved facts, and in its advance guard numbers too many enthusiastic, but hasty and illogical advocates to be generally accepted by thinking people without some reserve and occasional scepticism. What, with extra heavy iron pipes, lead pipes, block tin pipes, brass pipes, and copper pipes, special traps and wastes to every bath, basin, water-closet, sink, tub, and other fixture, and the ventilating pipes, full size above, below, and behind, to all the numerous traps, branches and overflows, service cisterns, direct supplies, indirect supplies, the main circulation and the return circulation, anti-freezing combinations, anti-leak ditto, flush tanks above, field tanks below, there is weight enough of metal in the plumbing alone of a complete house, according to the latest notions, to dismay the owner of moderate means, if not to sink his house.

MOREOVER the work itself is so intricate that the architect is not expected to comprehend it, and a sanitary engineer must be employed, at additional expense, to help him, or to take entire charge of it. It is, besides, too complicated and delicate for ordinary plumbers to execute, and special mechanics, higher priced and more deliberate than the old kind, will be indispensable to put it in properly. Then, when it is all complete, the sanitary engineer is needed as much as ever to see that this delicate apparatus is properly used, and to assist and direct when some of its many parts become obstructed or out of adjustment. No one, for example, but an expert can tell how long the many ventilating pipes from the traps continue to operate, or detect the difference when, their mouths being closed up with the soapy, lenty accretions which so quickly foul the traps and waste pipes, they cease to prevent that siphoning of traps, which is their sole purpose. We think it may be well occasionally to remind

sanitarians that there is a part of their field which would well repay cultivation, but which, thus far, has largely escaped attention. The ultra refined style of sanitary work is elaborate and complicated, costly in weight of material, and in skilled labor necessary to construct it, delicate and liable to derangement, troublesome to repair, and of no clearly established necessity, even when in perfect order. Poor people cannot afford it, and cannot have it. They must do with something cheaper; yet they need healthy homes as much as any. Let our sanitary experts turn their attention to this class of people and a plain class of plumbing, and show how to use it, clean it, and care for it, so as to secure the best results. We have already remarked on the many houses now existing, whose plumbing is of the simplest and cheapest type (consistent with honest work and materials), and which have proved to their occupants as healthful homes as can be found anywhere. This is largely due, we believe, to the good and proper care which these tenants have taken of very simple apparatus well put up in the first place. Here, we believe, rather than in the farther elaboration of plumbing apparatus, is where sanitary effort should now work.

THE competition for the new Chamber of Commerce in Cincinnati, which has just been decided, presents several points of interest. Its general character, the high reputation of the architects invited to compete, the universal excellence of the designs submitted, and the final decision of the committee all mark it as a great advance on methods formerly in vogue in competitions for public work. In issuing their invitations, the real estate committee of the Chamber of Commerce, composed of gentlemen of unimpeachable integrity and standing, selected six representative architects, whom they offered to pay about what sketches necessary for a fair presentation of designs for the building would cost. The original circular from the committee reserved for them the rights, first to retain as their property all plans presented, and second, to pay the successful architect \$2,000, and employ another man to make working drawings and complete the building. These two clauses the committee, in response to strong representations from Mr. Richardson, and Burnham & Root, finally modified, specifically agreeing to return all plans except the one premiated, to use no features peculiar to any one of these designs, and virtually conceding that the architect presenting the accepted design should be chosen to finish the drawings and superintend the building.

IT was stated in the first circular that the compensation for such full service should be five per cent of the total cost, which was limited to \$500,000. The architects selected by the committee were: H. H. Richardson, of Boston; G. B. Post, of New York; Burnham & Root, of Chicago, and S. Hana-ford, A. C. Nash, and James McLaughlin, of Cincinnati; all of whom responded. Mr. Richardson is the fortunate man, his design having been selected, and he appointed as architect and superintendent of the building. While it is true that no competition was ever decided in such manner as to give universal satisfaction, we are inclined to think that the committee in this case acted wisely. That they acted up to their convictions there can be no doubt. The reputation of Mr. Richardson as the architect of some of the best monumental buildings in America, is very great, and he is an architect in whose hands the committee undoubtedly felt that they were sure of an artistic and dignified building. The design presented by him seems to us to lack something of the spontaneity that characterizes Trinity Church, and Seaver Hall, and also to be rather too ponderous and elephantine. These are defects he will doubtless remedy.

WE congratulate the architects of the country on the fact, that this competition promises to be a precedent to a higher plane in such matters; yet we believe that we echo a sentiment almost universal among architects when we express the wish that in these competitions for public work there could be less of the personal element. It would seem that when architects of high standing are engaged in a competition in which all drawings are presented anonymously, a nice sense of professional etiquette would suggest that they all scrupulously refrain from even the appearance of undue personal influence. It is certainly not a dignified attitude for any architect to assume, when he places himself in a position that he can be even suspected of endeavoring to use his personal influence to supplement his design, and this immediately before the day on which the designs are first inspected. When the reputation of the committee, upon whom devolves the choice of architect, is so high as to preclude the thought of their being amenable to undue influence, the case is not very much bettered. For what would otherwise be to the defeated architects a ready compliance to the decision and unquestioning faith in the good intention of the committee, becomes tainted by the knowledge that, whether successful or not, influences have been put forth outside of those which lay in the covers of a sealed portfolio, and under the stamp of an anonymous device.

IF there is anything connected with the practice of architecture more fruitful of corruption and scandal than competitions we have yet to discover it. A recent sensation is reported from El Paso, Texas, where there was a competition a year ago for a court house and jail, to which twenty-five architects, so-called, responded. One came in person all the way from Chicago only to see the prize captured by a San Antonio rival. After the usual difficulties with competition, drawings, making changes, supplying omissions, etc., the work was let somewhat informally for the sum of \$135,000. The jail was finished last March, and the court house was ostensibly progressing properly when a disagreement with a sub-contractor led to charges before the grand jury and to a series of ineffectual attempts to secure an investigation, which has compromised the standing of a judge and other county officials, and produced great excitement among the tax payers. Indignation meetings have been held, funds subscribed to force an inquiry, and the commissioners who had repeatedly evaded the charges were compelled to give them a hearing.

BLUE print copies of the original drawings were now produced by the citizen's counsel, showing material alterations in the drawings submitted and used by the contractors, resulting in a difference of \$30,000 in favor of the contractors. The next day counsel for defendants was sick (very naturally), and the day after the prosecuting attorney began proceedings by the payment to the court of two thousand dollars in cash, a bank check for five hundred dollars signed by Britton and Long, the contractors, and their promise for five thousand dollars more. This, he stated, he had just received from these contractors as an inducement to discontinue the prosecution and to deliver to them the blue print copies which had so embarrassed their defense, all of which he was prepared to prove by the testimony of the sheriff and other witnesses. It is said that the firm of Britton and Long has since dissolved, and that Britton offers to finish his work for the reduced estimate of the citizens' committee. It is said that both contractors were placed for a time in the jail they had just built, and that blue print neckties are being bought and worn by everyone in El Paso. It is surmised that these contractors and the county officials had their plans

arranged in advance of the competition (not at all an improbable thing), and that its whole conduct then and since has been fraudulent. Moreover, but for the fortunate dispute with a sub-contractor and the chance discovery of a stray blue print, the tax payers would have remained defenseless against the swindle.

WE consider the *American Architect and Building News* one of the best papers of its class in existence, always scholarly, interesting, and seldom open to criticism except in compliment. But it occasionally employs the term "Western vernacular" in describing buildings more conspicuous for enterprise than for good taste. This may be due somewhat to its being published in Boston, a city often called the Athens of America, and, like ancient Athens, a little inclined to regard as barbarians all who dwell far without its classic precincts. There is considerable vernacular everywhere in this country, though we think it is no longer, if it ever was, peculiar to the West more than to other sections. But it is hard for our untraveled eastern cousins, particularly those who are not constant readers of THE INLAND ARCHITECT, to form even a remote conception of the advance which architecture has made, and is making in the leading western cities. If they will improve their first vacation for a trip to Chicago, St. Louis, Omaha, etc., and inspect our modern "vernacular," they may be assured of a hearty welcome, and we think they will then revise their vocabulary, and that the old phrase, "Western vernacular," will be marked "*now obsolete*."

Hints on Building.

BY J. H. CARPENTER, A. & C. E.

ARTICLE VI.—ARCHITECTURAL TREATMENT OF WALLS.

THE treatment of the walls is the basis of architectural design, and has varied much more than other parts to the will of the architect. The use of large stones of immense size was a favorite idea with the ancient Grecians, and remains of works exist which call into question the ability of modern skill to imitate; these large stones carefully fitted together without mortar joints, impress us with awe and respect, the very embodiment of great strength. The records of measurements of these remains are interesting because of their immensity. Some of these stones had their outline marked with a draft three inches wide, and sunk a half inch. In other walls we discover the use of corner stones projecting a little, and more particularly is this demarcation used where the walls are of smaller stone, this style being found in ruins of the Roman buildings, and more frequently among the styles derived from the Romans. The famous long and short quoins of Saxon architecture, of the Gothic, and the fanciful finish of the Renaissance, all used to mark the construction of angles and corners, while the panels of surface are marked with varieties of tooling, rich in effect, rustications and vermiculation being used where the wealth of the owners afforded the enrichment, while in other cases the stones are pitched off without tool marks, to show the rough faces of broken quarry stone, and none of all this work seems to vary in the least from the kinds of work done in our time. The rubbing or polishing of stone being also used, and with discrimination which enhances the effect. This completeness of workmanship has been more marked in the Grecian works than those of any other period, and at the same time the selection of fine textures and color in the material was carefully done, that the whole effect is in perfect harmony, should be all well represented.

The accentuation of joints, by channelling or tooled drafts, is the source of the great beauty of the Italian styles.

The marking of construction has also been done by pilasters, buttresses, and in later styles by architraves cut in fine panelings and carvings, which are without rival in their beauty. The facing of walls with cutstone or richer material is often done to conceal construction which did not harmonize with the design, or as a protection to a porous material from the weather; but while this has happened occasionally, the majority has been done simply to make appearances, and the facings are of soft, porous stone, backed by material which is the element of strength. The system of facing has been used in every period of architectural era, and though denounced by some writers as a sham, it has ceased being thought of as such, because of the universal practice of doing it, and for sound reasons, but the responsibility of the constructor is increased in performing the work, and he must assure himself of perfect solidity of construction.

The covering of walls with plaster is a device used to conceal in a

cheap way the still cheaper rough material within, and is an advantage in keeping out moisture, and its use is legitimate as such; but when the walls are marked off and pointed so as to imitate stone, it becomes a sham which is painful to the eye and out of good taste. When we pass from the outer to the inner face of the wall the conditions change, and the practice of covering with plaster or any device which hides away the wall is legitimate and good taste accepts it, decorates, carves, paints and finishes it extravagantly, giving us renowned examples from antiquity and of later date, which are wonders as works of art.

Besides dealing with the exterior of walls in the variations of stone courses, joinings and enrichments of panels and other ornamentation, we have to consider the variation of the plan of the walls by projections of various shapes, and the systems of outlining with pediments, gables, towers, pinnacles, etc., and no simpler or more dignified way of gaining effects exists. In Egypt and Asia the tops of walls are level and terraced for use according to the customs of the people. While in Greece, the sloping roofs form the pediment, which invites enrichment and gives the happiest relief—the most successful treatment of walls which architecture possesses; and from the changes in the known classical styles it rises to form the steeper gable of the Gothic style, which have not been confined to use in public buildings alone, but are used by the people in domestic works, and the variations of sizes forming gables, dormers and similar expedients, lending variety and adding beauty by contrast with its more important neighbor.

The tower, when added to the building, makes its effects still more grand and the general character the more imposing, adding height and dignity. The earliest towers were those added to fortifications, and in the early Christian times its use became more frequent as belfries and land marks, and latterly its use is entirely ornamental. In general effects it exceeds the gable, and the two in combination produce happy results.

The tower, placed at the intersection of roofs, is its most effective position, but towers in the front or at either corner is the most common way of using them. Detached towers are frequent, and each way has its peculiar use in architectural effects. Pinnacles, battlements and dormers are accessories which show purpose, and are features which are used in the greatest variety, the changes adapting themselves to every conceivable position, and become the readiest means of ornamentation in outlining walls.

The variation of the plan of the wall to circular or elliptical shapes is not common because of the requirements of space around them to show their beauty. The polygon shape is another form of wall, but neither of these forms are used much except for ornamental bays and oriels.

The enrichment of walls is an art and requires the most careful consideration of effects at short distances.

The relation of ornamentation to construction has greater claims upon us than most designers are willing to give, because it prevents the use of flattering pieces of work which true taste at once prohibits. The only true theory is to ornament construction; after that is done all other ornamentation must be subservient, or it will prove to be a blemish. Over-dressing shows a weakness of character; nobility in art is the highest aim. The ancient temples, a lover of classics and art will ponder over and view in awe, observing the grand effects of construction, so simple and so true; and as soon as the eye begins to examine the details of construction it is entranced with the wonders of the ornamentation which seem to open up in every direction—in no way obtrusive, entirely subservient to the construction; and surely their examples of the true theory of ornamentation are worthy of our following.

Moldings, sill-courses, water tables and cornices are means in the hands of an architect of changing the whole style of a structure to the peculiarities used by different nations and at different periods; used simply, they are a means of showing a line which may be a point of separation between several different kinds of work; they can be used readily to change the apparent proportions of the whole structure, and if used carelessly they ruin the proportions by leading the eye in their direction.

Several horizontal lines in the height of a structure tend to broaden the effect; so also vertical lines cause apparent height. As much depends upon the moldings for the dignity and richness of the structure as upon the varied outlines, and their proper combination with the outlines makes a building all that could be desired. Considered as a whole, the wall becomes the greater part of our structure, the embodiment of all that skill chooses to make it. Its structural conditions perfect, all else is the result of taste, and in the use of taste.

The purpose of the structure is the groundwork of all structural and ornamental conditions. If this is well embodied, character is given to the combinations. The other additions must be in harmony, and besides the treatment of the wall for beauty in design we have also to recognize the legitimate use of the material used, based, as a rule, on a knowledge of style and precedents.

(To be continued.)

European Sketches.

BY IRVING K. POND.

PART VII—SWITZERLAND.



A GENEVA WATCH.

URELY nature did a kindness to humanity when she placed the ever cool and quiet Alps in the heated heart of crowded Europe, and certainly Providence was wise in that it gave the keeping of this resting place into the hands of a gracious, neutral power, so that people of all nations might come together and drink in life-restoring sweetness and grandeur, and wisely have the people accepted and come together. Following the example of the people, the buildings of England, France, Germany and Italy have climbed up into the Swiss towns to enjoy the cool and quiet of the Alpine district, and have done as the people do, have thrown off the restraints of fashionable life and society, and have donned the feathered mountain cap and assumed the freedom and waywardness of the mountain bird. Thus a strikingly national style is not discernible in the architecture of Swiss towns; and it is only on the mountain side, alone and unattended, or in the secluded valley hamlet, that the typical Swiss building, the Chalet, flourishes in all its individuality and purity of style, flourishes there, in out of the way places like the rare Alpine flower, and like the flower, unable to blossom and bloom in perfection in any other clime. The buildings of country or town never attempt to awe through grandeur, but are modest and retiring and are apt to be overlooked or ignored, nestled as they are among the works of giant nature. It is not strange that these little works of simple man should be overlooked by the masses who, gazing in wonderment or in contemplation up at the vast pyramids of snow and ice, heaped upon their mighty granite foundations, heedlessly tread upon the rarest and sweetest of flowers, forgetful that the same force that lowered the valleys and raised the mountains, working in channels of infinite love and infinite tenderness formed the bruised flower. And he who does not have his feelings of awe and reverence for the mighty forces of nature tempered by a love of the works, and a sympathy for the struggles and strivings of poor infinitesimal man, need look for no architectural beauty in Switzerland. But it is there and crowded with historical and romantic suggestions. The old walls and watchtowers of Lucerne, wonderful in character and variety, tell of the struggles of advancing civilization, with the rude, rough mountain tribes, and after that of the warfares waged between freedom and oppression. The square

NEAR
VEVAY
I.K.P.

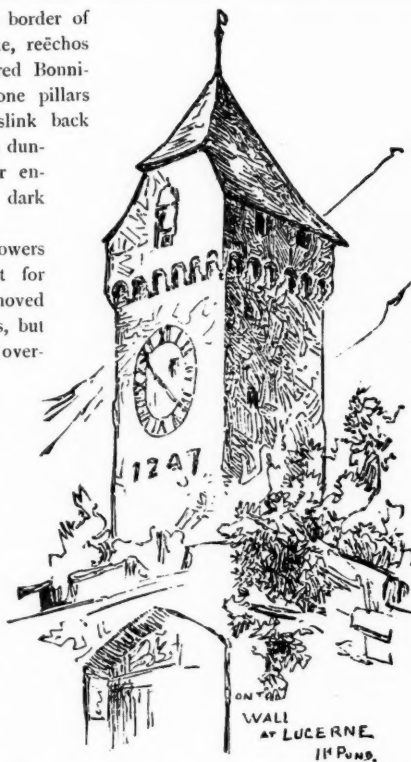
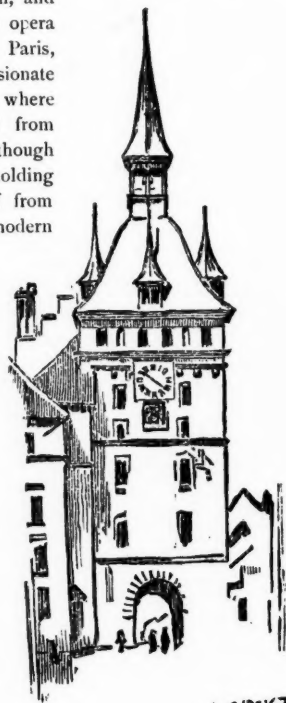
towered Chillon by the border of Geneva's capricious lake, reëchos the moans of the fettered Bonnard, and the old stone pillars which held the chain, slink back into the darkness of the dungeon, ashamed of their enforced participation in dark crime.

None of these old towers and castles were built for prairie lands and then moved to their mountain homes, but the spirit of the Peaks over-filled the builders' minds, and the buildings grew as grows the mountain pine; roof and spire, tower and turret, echo the mountain forms. When we consider the larger towns which are more or less removed from the rugged mountain influences, we will find as already stated, buildings of all styles, yet all wearing, to a certain extent, a Swiss holiday appearance.

In this town among the peaks a beautiful Gothic spire points upward toward the heights. In this other, on a level table land a massive Florentine palace with broad, straight cornice repeats the story of the broad, substantial foundations of the town. Here, again, a solidly built Gothic church, with stunted towers, is outlined against the purple mass of a low-set distant hill.

It may be that these buildings do not in reality fit as harmoniously to their places as I have hinted, but they certainly seem to do so. To the beholder who, in a day, from the snowy passes has climbed down into the green valleys, who has crossed with high strung nerve, an ice gorge through which the roaring mountain torrent rushed, and then has carelessly stepped across the gurgling meadow brook, who in the bright sunlight above has seen the snow storm raging in the valley, and soon in the valley has caught the gentle rain on his upturned face, who at noon dined and drank with lowly peasants in a log hut with roof held down by stones, and at night supped and sipped with lords and ladies in a palace hotel with stones held down by roof,—I say to the beholder who has done this in one day, nothing architectural will seem very unexpected or much out of place. Zurich has a beautiful Romanesque church, and Geneva has a stately Renaissance opera house modeled after the Grand at Paris, bringing a decided flavor of passionate French life into the staid old town where Calvin lived and preached, and from which Mont Blanc and his less, though still, lordly neighbors may be seen holding their spotless white mantels aloof from the contaminating influences of modern society. Well, let Mont Blanc withdraw toward the sun, the bold old eleventh century cathedral, "the St. Peter's of the North," still stays and in deep, solemn protest lifts its dark spires against all worldly intruders.

Some of the streets are decidedly curious; for instance, those of Berne, which are lined on either side by four and five story buildings, massive in construction and arcaded in the first story. Along these arcaded passages the sidewalks run, and as the head room is rarely over eight feet, and often less than six feet, a tall man must frequently take to the street proper to save his head and hat. Down the center of this valley

ON THE
WALL
AT LUCERNE
I.K.P.A CLOCK-TOWER
BERNE
I.K.P.

between houses runs the sewer, sometimes closed, more often open. Here and there the streets are blocked by huge clock towers with fantastic roofs and dormers, which stand across the way like mountains across a pass, and under the towers as under the mountains, run tunnels



that some intercourse may be carried on between detached portions of the streets. These features do not belong especially to Switzerland, but in no other countries are the arches quite so low, and none other than Swiss streets are so decidedly shortened by towers whose hands cannot conceal the marks of time on their faces, and whose bells are forever telling the flight of time, and the brevity of life as well as of streets.

The Swiss people have no more of national character than have the buildings, and, as in case of the Chalet, it is only on the steep mountain side where the goats feed, or up among the crags where chamois leap, or down in the sheltered valleys of the high Alps, where the silvery tinkling of the bells make sweet music as the herds graze lazily in the soft sunshine, that anything like national characteristics are developed, and these in rather a low plane. Of course there have been battles for freedom, freedom of thought and action; but no love of country, no great national pride, has incited to war; no love of fatherland, but rather a love of free mountain life, such a love as would animate a wolf or a bird.

Distinctive and charming peculiarities of face and dress, so noticeable among the peasantry of other countries, are wanting in these people. The faces may have come from Germany or Northern Italy or from anywhere, there is no type. However, one peculiarity, and that not a particularly charming one, was noticeable in the dress of a Geneva gendarme, and similarly cut pantaloons are worn by some of the peasants round about Lucerne; but even this style cannot be stamped as individually Swiss.

So, to sum up, the building and people of Switzerland, in general, possess no distinctly national characteristics. Outside influences have told greatly on the nature of both people and buildings; and only in almost inaccessible spots has anything like individuality manifested itself, then picturesquely, often lovably, but, however free and bold, never concealing the narrowness of thought and life.

THE Architects, Contractors and Material Dealers Directory of the City of Chicago, published by Messrs. R. R. Donnelly & Sons, contains the names of the real estate, insurance and banking interests of the city, as well as all lines of trade related to building, classified, and arranged in alphabetical order. Due care was taken to make it reliable and convenient.

Association Notes.

MEETINGS.

WESTERN ASSOCIATION OF ARCHITECTS.—Convention will be held November 11, 1885, at St. Louis, Mo. Regular meeting of directors at Chicago, April 17, at 4 P.M.; August 7, at 4 P.M., and at the Southern Hotel, St. Louis, Mo., November 9 and 10, at 2 P.M.

ILLINOIS STATE ASSOCIATION OF ARCHITECTS meets the first Saturday of every month, at 15 East Washington street, Chicago.

MISSOURI STATE ASSOCIATION OF ARCHITECTS meets at Kansas City on the second Tuesday in January, 1886.

KANSAS CITY SOCIETY OF ARCHITECTS meets Saturday afternoons of each week. Annual meeting second Saturday in April, 1886.

THE ARCHITECTURAL ASSOCIATION OF IOWA meets second Wednesday of August next, at Colfax, Iowa.

THE ARCHITECTURAL ASSOCIATION OF MINNESOTA meets first Tuesday of the month, at Minneapolis.

THE ARCHITECTURAL SKETCH CLUB, of Chicago, meets every alternate Monday; temporary quarters, Builders & Traders' Exchange.

THE WESTERN SOCIETY OF ENGINEERS meets the first and third Tuesday of each month at 4 o'clock P.M., at 15 East Washington street, Chicago.

THE MASTER PLUMBERS' SOCIETY, of Chicago, meets first and third Wednesdays of the month, 7.30 P.M., at 15 East Washington street.

WESTERN ASSOCIATION OF ARCHITECTS.

A meeting of the executive committee of the Western Association of Architects was held on the 7th inst. Some matters of minor importance were disposed of, when the following scheme of competition for mantels, proposed by the president of the association, Architect C. E. Illsley, of St. Louis, was referred to the Chicago Architectural Sketch Club:

COMPETITION FOR MANTELS.

The Pickel Marble and Granite Company, of St. Louis, offer prizes of \$30, \$20 and \$10 for the three best designs for a wood mantel. Each mantel is to be 5 feet 2 inches length of shelf, and to have an opening 3 feet high and 3 feet 6 inches wide. The designs must be such as can be executed readily in domestic woods at a moderate cost, not exceeding \$200 for a mantel, and a preference will be given to designs showing the best effects at the least expense. The premiated designs to belong to the Pickel Marble Company with the right to publish in THE INLAND ARCHITECT, if its managers shall so desire.

The St. Louis Hydraulic Pressed Brick Company also invite designs for mantels of the plain and molded brick shown in their catalogue of June 1, 1885 (a copy of which will be sent free to any address on application to H. W. Eliot, secretary, Turner Building, St. Louis). The height, width, and other dimensions are left to the discretion of the designer. The shelf may be of marble, slate, or wood, all other parts to be of brick as above. The premiated designs to be the property of the company, with the right to publish in their catalogue and in THE INLAND ARCHITECT. For the best design, without restriction as to cost, they offer a prize of \$50; also a prize of \$30 for the best mantel costing not less than \$75 nor more than \$100; and a prize of \$20 for the best mantel costing from \$40 to \$75.

These competitions, while intended especially for draughtsmen, are open to all persons, irrespective of age, sex, or occupation, except professional designers employed by mantel manufacturers. The drawings in each case must consist of a perspective not less than six inches square, beside margin, a front elevation, a side elevation and a section, all to a scale of one inch to the foot, and a sufficient number of details to show construction to one quarter full size. Ink or colors may be used, as preferred, in the perspective, the other drawings must be entirely in ink, except the section, where colors may be used to show material.

Perspectives intended for publication should be in ink as below. Drawings must be sent free of expense to the undersigned not later than Tuesday, November 10, 1885. Drawings arriving after that date may be exhibited with the rest, but will not receive a premium. They may be sent framed, rolled or flat as, their owners may prefer. Each drawing must bear the following title: "Convention of Western Association of Architects, at St. Louis, November 11, 1885. Competition for wood (or brick) mantels;" and immediately beneath this a clearly legible motto or device, corresponding with that on a sealed envelope, bearing the author's full address, age and occupation, and written declaration that this design is original, and has never before been used nor published.

The awards will be made by a committee of five architects, whose decision will be final on all points, two to be chosen by the respective promoters and three by the Western Association of Architects. The premiums will be paid in cash within three days after the awards are announced.

In making their decisions the committee will regard the feasibility and economy of a design, and the clearness and neatness of the drawings, and of their arrangement on the sheet, as well as the artistic merit of the design, and they will reserve the right to withhold any or all premiums should no design appear to them sufficiently meritorious. The respective promoters further reserve the right to acquire any or all non-premiated designs for an agreed price, not exceeding the lowest prize.

It is expected that the designs will be placed on public exhibition during the sessions of the convention, and all designs not premiated or purchased as above will be delivered to their owners promptly thereafter.

Non-compliance with any of the conditions will disqualify a design for receiving a premium.

The Chicago Architectural Sketch Club, to whom the above paper was referred, decided to accept the proposition, and will enter the competition.

THE ILLINOIS STATE ASSOCIATION OF ARCHITECTS.

The regular monthly meeting of the Illinois Architectural Association was held on August 1, at 15 Washington street, Chicago. Several representatives of the Builders and Traders' Exchange were present by invitation, namely, Alex. W. Murray, P. B. Wight, J. B. Sullivan, Geo. C. Prussing, W. H. Chenoweth, William Grace, Edwin Lee Brown, George Tapper and James John.

After partaking of a lunch, the meeting, in the absence of both president and first vice-president, was called to order by architect D. H. Burnham.

The following communication was received and read by the secretary:

ST. LOUIS, July 27, 1885.

HENRY LORD GAY, Secretary Illinois Architectural Association,

My Dear Sir,—I have just discovered the above advertisement, which was printed in an obscure corner of the *Globe-Democrat*, of this city, on the 12th, 13th, and 14th instants.

While not wishing to be suspicious, I think the circumstances suggest a job. For example, that the trustees have their architect, plans, etc., all agreed on beforehand, but that there is some law requiring such matters to be advertised; therefore, to comply with the letter of the law, they have an advertisement inserted three times in the most obscure part of the paper, and invite plans and specifications for a \$100,000 building in a distant country town, to be presented within sixteen days thereafter.

If these trustees do not know that no proper plans for their work can be made in sixteen days, they are incompetent for their position; if they do know it, I should think some competent authority should require an explanation from them. I would presume

that any adoption of plans and selection of architect under these circumstances could be set aside as on its face fraudulent and evasive of law.

If you agree with the above, perhaps you will think it well to bring the matter before the Chicago architects for suitable investigation and protest, it being in the state of Illinois. As secretary of the Western Association you seem to me the proper person to undertake such a matter.

I am, very sincerely yours,

C. E. ILLSLEY.

The advertisement referred to and accompanying the letter was as follows:

NOTICE TO ARCHITECTS.

SOUTHERN ILLINOIS NORMAL UNIVERSITY, }
CARBONDALE, Jackson Co., Ill., July 9, 1885. }

Architects are invited to submit plans and specifications, July 28, 1885, to the board of trustees for the rebuilding of the Southern Illinois Normal University at Carbondale. Said building to cost not to exceed one hundred thousand dollars (\$100,000) exclusive of steam heating and lighting. For further information apply to Isaac Kapp, superintendent of construction, or to the secretary. By order of the board of trustees.

E. J. INGERSOLL, Secretary.

THOS. S. RIDGEWAY, President.

On motion the communication was referred to the executive committee to take such action as the committee may deem expedient.

Communications from Mr. Illsley to the Western Association of Architects concerning schemes of competition, were read and referred.

The presiding officer announced that the members of the Builders and Traders' Exchange present, had been invited to express their opinions concerning the relations, in a business way, of architects and contractors. It was desirable that the architects should know in what esteem they were held by the contractors and builders, and the gentlemen present were qualified to speak advisedly and intelligently upon the subject. Criticism was invited. The architects of the Association desired to learn the points on which they were open to criticism. To this end they had first invited clients to address the association; they would now be pleased to hear from the contractors; and the utterances of their visitors should have careful consideration.

Mr. Geo. C. Prussing, president of the Builders and Traders' Exchange, and a well known mason contractor, was called upon, and responded by saying that he was not informed as to the points upon which discussion was asked, and did not know of any serious complaints against the business methods of the architects of the city as a class. The thing causing most trouble, he thought, is that of making the architect the arbiter in differences between the owner and contractor. The specifications usually say that in differences arising between the owner and contractor the architect shall be the sole arbiter. He would not base any of his remarks upon his own experiences. He had no cause of complaint, was careful in selecting architects to do business with, and was generally treated as a gentleman. But the profession of architecture does not necessarily make a man a gentleman, and no doubt there were architects in Chicago who ought not to be trusted with unlimited power. He knew of cases where great wrong had been done by the exercise of this power. Men acting in the relation of employes cannot always act impartially between their employers and contractors. The Master Masons and Builders' Association, four years ago, appointed a committee to draft a contract to be presented to the architects. The speaker was a member of that committee, and assisted in drafting a contract which provided that in case of a dispute between owner and contractor the matter should be settled by arbitration. Each party was to choose an individual, and the two selected were to name the third, to hear and decide the matter in dispute. In this way both sides could be heard, and he was of the opinion still, that it was the best way to settle any question in controversy and do right by all concerned. In reply to Mr. Patton, who asked if the contract provided for arbitration on all questions, or if it was limited to certain classes of questions, Mr. Prussing said that the architect's decision should not be final in any case, but either party should, if aggrieved, have the right of appeal.

Architect D. H. Burnham did not believe in the practice of arbitration, saying it would require too much time, and the architect with a large practice would not be able to give it necessary attention. Every contractor who had a bill of extras cut down by the architect would appeal to arbitrators. He could not get less, and would risk the chance of getting more. He pointed out that the system would be very expensive, at least \$10 per day for each one of the arbitrators, and asked who should bear this expense. Leading architects had final settlements to make nearly every day, and if all were disputed and had to be settled by arbitration, it would take two-thirds of the working days of the year.

Mr. Prussing answered by saying that the architect, knowing that his decision would not settle a question unless it was manifestly just, would consider the matter and decide more fairly. It would be a restraint upon him, while the contractor who would habitually appeal to arbitrators would very soon lose business; he would not be asked to bid. On the other hand, the architect who was notoriously unjust would be shunned by the contractors.

Mr. Adler, who came in during the discussion and took the chair, asked if they did not have that privilege now.

Mr. Prussing said that if great injustice was done in some cases it might be on account of the ignorance of contractors. It was the principle he wished to discuss, and not the facts developed in practice. No one man can be perfect at all times. Probably each architect present had made decisions which he would change if they had to be made again. Is it right that any question should be left before it arises to the arbitrary decision of any one person? Can any individual be so perfect?

Mr. Burnham asked if this could not be met in a different way. A very flagrant decision, brought before a court, would be upset by any court. Any contractor would go to court for redress who considered himself unjustly dealt with by the architect on a large bill. Arbitration would be more expensive and troublesome than a trial before a justice of the peace. The remedy proposed by Mr. Prussing was cumbersome and costly.

Architect Frederick Bauman rose to say that it had been decided by the supreme court that if the owner and contractor had agreed in writing to abide by the decision of the architect, there was no recourse unless fraud be proved.

This was disputed vigorously, and several cases cited in refutation of it.

Architect W. W. Clay suggested that the question be argued upon its merits, and not upon facts of which the larger number present were not informed.

Mr. Edwin Lee Brown was called upon, and said that on the question of arbitration he did not agree with Mr. Prussing. He had had an experience of thirty years as an architect and contractor. He would be perfectly willing to leave the settlement of bills in the hands of an honest architect. If an architect proved himself dishonest he would shun him thereafter. The architect was more familiar with all the facts than a board of arbitrators could possibly be. He said that in his own practice he never presented any bills for extras. The difference in the cost of a well constructed and a cheaply constructed house, after the cheap contractor's bills for extras was rendered, he said, was not over ten per cent. He advised men not to undertake a job for less money than the work could be done for, and done well. That was the way to elevate the profession. He had always been opposed to cheap work. If he was doing work for less than cost he would do it just as well as if he was doing it for a good profit. He was opposed to the custom prevalent among some architects of accepting commissions from contractors. The architect steals who accepts commissions from both owner and contractor for the same work. Frown upon the practice. It is a common thing to hear contractors say, "that architect belongs to that man." He would advise architects to say to the owner, "I want to receive all the bids and make all the awards." The architect would decide in favor of honest contractors, while the owner will always take the cheapest and always make a mistake.

Mr. George Tapper said that he had been contracting in Chicago for twenty-five years, and his relations with the architects had always been friendly. He believed in the principle of arbitration. Architects who have large practices cannot personally attend to all their work; they employ superintendents, who settle the bills for extras, and to know the value of extras requires more experience than the superintendents usually have had; therefore they were not proper persons to put in charge of such work. He thought Mr. Brown was in error in thinking the difference in the cost of good and poor buildings was only ten per cent. It was possible to construct brick walls in which the difference in cost would be twenty-five per cent, but the difference could not be seen from the outside; that could only be told by disaster. He would ask of the architects, when they specify first-class work, to accept nothing else.

Mr. J. B. Sullivan asked architects to make provision in their contracts for prices at which extras shall be charged, for instance, the rate per square for painting and the discount from list price of glass. The specifications provide that the contractors shall leave the glass whole and sound. The breakage of glass is no inconsiderable item, especially in winter when salamanders are used to dry the plastering. He thought architects should all use the same form of specifications, and that questions for arbitration should be referred to the committee on arbitration of the Builders and Traders' Exchange.

Mr. W. H. Chenoweth said he did no extra work without an order from a responsible person, and had no trouble about extras. While the architects claimed to make plans complete, the ironworkers had to make their own drawings.

Mr. Alex. Murray recommended that where work of the different kinds is dove-tailed that the several contracts be let at the same time, and said that the plans did not show clearly where the masons and carpenters should leave openings for plumbing pipes, and that the carpenters often placed joists or studding where the soil-pipe should be. He suggested that only plumbers of known ability and integrity be invited to figure on work, and it be let then to the lowest bidder. He thought that in posting bids each bidder had a right to know at what price the work on which he had bid was let. It was all right for the owner to give his work to a friend, but it was not right to ask the time of other plumbers to help him reduce his friend's figures to the lowest price. He would like to know what the plumber's duty was in case the owner asked if the place designated in the plans of the architect for closet or gas-fixtures, etc., could not be improved. Should the contractor answer such questions? He would like to have first-class work definitely fixed, and the value of extras. He suggested that if the architect would furnish the plumber with a description of the lot and block on which the building was to be erected, it would assist the plumber to ascertain just where the water service was laid and to make a closer estimate of the cost.

Mr. William Grace said his contracts for carpenter work were drawn as strong as he knew how to make them, and a basis of charges for extra work agreed upon. The carpenter should not be alone required to pay for insurance in which all other contractors were interested. He asked that the number of bidders be reduced and confined to contractors who were known to be responsible. There were seventy bidders on one piece of work last week, and he thought the architects would not care to go into competition when the chances of getting the work were so small.

Mr. James John believed in settling differences by arbitration. There were too many bidders for the plastering. The best work could not be expected when good and bad workmen were brought into competition, and urged that the competitions be reduced to narrower limits. It was almost impossible to do honest work at present prices. Plastering could not be done as well in winter as in summer. It was unjust to hold the plasterer responsible for damages to his work done by those who follow him, as, for instance, when the plumber's helper soils the walls. The painter, who is the last in the house, should be responsible for its cleanliness. The plasterers were in favor of posting bids.

Mr. Tapper thought the owner should furnish the obstruction bond required by the city of the mason contractor.

Mr. Murray suggested that all contractors give a bond to the city like that required of plumbers. It was unjust to compel the plumbers to deposit money with the city as security for the relaying of pavements. In case of a busy plumber, it kept too much money lying idle. The owner ought to give such bond.

Architect D. H. Burnham said that there were unreliable men in all

the organizations of building trades, and all such men ought to be weeded out.

Mr. P. B. Wight said that his company kept a form book in which all changes and extras were definitely entered, and they found the records thus made convenient for reference and satisfactory in results.

The meeting then adjourned.

THE MASTER HOUSE PAINTERS' CONVENTION.

At 11 A. M., July 15, ult., the Master House Painters' Association of the United States and Canada, formally organized at New York in January last, met at 15 Washington street, Chicago, in what has been denominated its first annual convention. About seventy-five members were present, representing fifteen states and Canada. President Titus Berger, of Pittsburgh, Pa., called the meeting to order, when a welcome address was delivered by Mr. E. H. Humphrey, president of the Chicago association. President Berger, in response, briefly spoke of the necessity for an organization of this kind, and the difficulties the movement encountered and overcame during the first year, of the objects of the association, the evils to be destroyed and the good to be done by concert of action and fraternal coöperation, of the work to be done at this meeting, and in fitting words acknowledged the cordial reception tendered the visiting members by their brethren of Chicago. The hearty applause which greeted both speakers bore indubitable testimony to the enthusiasm of the members and their concurrence in the sentiments to which they had given expression. A committee on credentials was appointed, composed of J. G. McCarthy, of Chicago, Jesse Cornelius, of St. Louis, and J. H. Gibson, of Kansas, upon whose recommendation all master house painters present were permitted to take part in the discussions and to join the association at the recess following. J. B. Sullivan, of Chicago, Jesse Cornelius, of St. Louis, J. W. Pooler, of St. Joseph, Mo., James Swedden, of Wyandotte, Kans., and R. C. Miller, of Pittsburgh, constituted the committee on order of business, and the convention adjourned until 2 P. M.

At the afternoon session, the report of committee on order of business was received and adopted. Letters of regret were read from sundry members of the craft, the minutes of the January meeting were read and accepted, and the report of Secretary Martin, of Kansas, showing 154 active and 7 honorary members, the receipts and expenditures, the aggregate amount delinquent, and told of the work done, to inform the master painters of the country of the organization and its encouraging prospects.

The election of officers resulted as follows: President, Titus Berger, Pittsburgh; Vice-President, Jesse Cornelius, St. Louis; Treasurer, P. M. Almini, Chicago; Secretary, F. P. Martin, Atchison; Trustees, E. H. Humphrey, Illinois; G. W. Pooler, Missouri; B. T. Collingbourne, Wisconsin; John Tully, Wisconsin; J. W. Newberg, Iowa; R. C. Miller, Pennsylvania; J. G. McCarthy, Illinois; J. B. Atkinson, Kentucky; D. J. White, Canada; L. O. Lyons, Michigan; J. T. Wallin, California, and J. F. Thayer, Massachusetts.

A committee to revise the constitution was appointed, and the remainder of the session was consumed in discussing a national apprenticeship system and the formation of local organizations. On motion, the matter of apprenticeships was left to a committee of eight, to report at the next annual convention.

The second day's session opened at 11 A. M. The resignation of A. A. Kelly as corresponding secretary was tendered and accepted, and the trustees instructed to fill the vacancy. The report of the committee on constitutional revision was made, and a good deal of time was spent in discussing proposed changes, but few material alterations were made. The third Wednesday of July was made the time for the annual meeting, a quorum was fixed at twenty instead of twelve, and the provision for assessing a \$5 fine upon officers for absents themselves from meetings was stricken out. The initiation fee, after considerable discussion, was left at the original figure, \$3. At the afternoon session the question of issuing traveling cards to journeyman painters came up for discussion, and the convention decided to adopt the card used by the local organization, on which the master notes in cipher the time the workman had worked for him, and his character and proficiency. It was agreed to limit the cipher to three grades, upon which members will be posted by mail. A committee of five was appointed to prepare essays upon the subject of competing for contracts, to be read at next annual meeting; also papers on the cleanliness and management of paint shops, and on a system of grading workmen were provided for. The proposition to designate a newspaper organ was tabled. Philadelphia was chosen for the place of holding the next annual meeting. Resolutions expressing the appreciation and thanks of the assembly for the various courtesies shown the body were adopted; the president congratulated the association upon the encouraging outlook and urged members to work with diligence to make the organization one of the strongest and best of the kind, and the formal adjournment was deferred until noon of the next day, when the reception and banquet committee of the Chicago Association took charge of their guests and proceeded to entertain them in Chicago style. Forming the members in double column and supplying each with a badge representing the three primary colors, they marched to the foot of Harrison street, and put on board a handsome steamer engaged for the occasion. After a pleasant ride to the northern city limits, thence south to Cheltenham Beach, the party was landed and marched to the South End Pavilion. The afternoon was spent in festivities and the evening in dining. The tables were beautifully decorated with flowers and richly laden with delicacies. About one hundred and seventy-five persons partook of the refreshments, and from 7 to 11.30 P. M. the feast held with unabated interest, and mutual good feeling and appreciation found expression in numerous toasts and congratulatory speeches. They returned to the city at 1 A. M. On Saturday the visiting members were waited upon and escorted to many of the shops of local members. That the acquaintances made, the fraternal feelings inspired, and the greater interest excited by this meeting in all that pertains to the mutual interest of master painters will be productive of great good to all who were present and to the trade generally, there can be no doubt.

Our Illustrations.

Residence for B. F. Allen, Des Moines, Iowa, W. W. Boyington, architect, Chicago. A frame, on stone foundation; inside finished in shellacked pine; hall in oak; a commodious and attractive house; cost \$11,000.

The sketches for a gate lodge, by I. K. Pond, obtained the first of three prizes awarded by the Chicago Architectural Sketch Club in June, for competitive drawings of this kind by members of the club. The plan and various features of the lodge are so clearly defined in the illustration that no description is needed.

Board of Trade building at Omaha, Neb.; architects, Mendelsohn & Fisher, Omaha. This is an ornamental structure, unique in character, and sufficiently distinct to make it attractive among its tall neighbors. There is in it all the requisites of a good building, and is in keeping with the many excellent improvements of that city. The perspective is the joint work of Messrs. J. H. Carpenter and Edward Dewson, of Chicago.

The building of H. E. Bucklen, which appears among the illustrations of this number, is being erected on the corner of Michigan avenue and Peck court, fronting the lake. The walls will be of Chicago Anderson pressed brick, trimmed with Carbondale brown stone and terra-cotta. The first floor and basement will be arranged for and occupied by the offices of H. E. Bucklen & Co., and the upper floors will be residence flats. The design is Renaissance with features in Moresque, and when completed will be a very attractive structure. The contracts are all let, and the walls are now up to the second story. Architect, Oscar Cobb. Perspective by J. H. Carpenter.

First Presbyterian Church, Lake View, Ills.; J. C. Cochrane, architect, Chicago. This handsome edifice will be erected at the corner of Evanston road and Addison street. The walls will be of pressed brick, embellished with terra-cotta and stone. The tower will be 22 feet square and 135 feet high. The auditorium will be rectangular, 60 by 85 feet, and 52 feet in height, spanned by two trusses of rich design, and supported by two columns. The windows will be massive and filled with stained glass. In the rear will be the chapel, containing Sunday school and class rooms; in the front, next to Evanston road, will be the parlors and entrance hall. The second story will contain pastor's study and parlors, arranged with sliding windows opening into the chapel below. The chapel will be 44 by 90 feet, and 21½ feet high in the clear, and the ceiling will have trusses and arches, with enriched panels.

Printed Specifications.

ARCHITECTS want a printed specification that is compact, cheap, and adapted to all sorts of work, large or small, elaborate or plain, cheap or costly. They do not want a bulky pamphlet, containing blanks of half a page or more where only a line or two are needed, and alternating with blanks just as much too short, where they must cramp their hand, interline, write on the margin, etc., to get in half the matter which belongs there.

We think the New Departure Specification perfectly meets these requirements. While in all general stipulations it is the most complete specification ever published, it is also compact, simple and cheap. It is not printed on India rubber, but it readily expands or contracts to fit large or small jobs, giving room enough for everything that must be written, yet no waste space anywhere. Send 25 cents for a sample copy.

Mosaics.

NOTWITHSTANDING the complaint of dull times, the orders for the *Bower Trap*, for the first half of 1885, have greatly exceeded that of any other year. As this trap has been on the market for eight years, this speaks well for it.

THE W. H. Wells & Bro. Co. contracted for the following stained glass work during the month of July:

M. E. Church, Clinton, Ill.; Presbyterian Church, Jacksonville, Ill.; Reformed Church, Fulton, Ill.; McVicker's Theater, Third Presbyterian Church, Episcopal Theological Seminary, Chicago; Presbyterian Church, M. E. Church, Saginaw City; New Synagogue, Kansas City; Presbyterian Church, M. E. Church, Grand Rapids; Catholic Church, Richmond, Minn.; Catholic Church, Cold Springs, Minn.; Presbyterian Church, Baptist Church, Danville, Va.; Presbyterian Church, Sedalia, Mo.; Catholic Church, Eau Claire, Wis.; Catholic Church, Durand, Wis.; Catholic Church, Ferdinand, Ind.

A PORTION of the Montezuma Hotel, at Las Vegas, New Mexico, one of the finest hotels in the West, described, with a double page illustration, in the "Mid-Spring" number of this journal, was burned on Saturday night, the 8th inst. The fire was discovered in the fourth or attic story about 11.30 P. M., when the mercurial alarm sounded in the office and the guests, about seventy-five in number, were aroused from sleep by the electric gongs, and all escaped with their personal effects to places of safety until the fire was subdued, when they were comfortably cared for the remainder of the night in that part of the house which remained intact. The origin of the fire has been attributed to different causes, and at this writing has probably not been ascertained. The fire apparatus proved inadequate for the occasion, possibly for the reason that upon the first alarm it could not be brought into immediate service, but the fireproof tiled walls by which the house was divided proved sufficient, by closing the openings, to save one-half of the building. The hotel was erected by the Atchison, Topeka & Santa Fe Railroad Company, and was completed last April, Messrs. Burnham & Root, of Chicago, being the architects. The amount of damage reported by the associated press ranges from \$200,000 to \$300,000, which is like the first reports of the disaster conveyed by the wires, very much exaggerated. Architects Burnham & Root will have charge of the work of rebuilding, which it is said will be immediately commenced.

Synopsis of Building News.

Austin, Tex.—Messrs. J. N. Preston & Son report: For A. W. Townsend, a two-story frame residence, slate roof, cost \$3,500, and two-story frame residence for Mr. Randolph, cost \$3,500; J. Larnour, of Dallas, Texas, being the architect, and Chas. Funk, the builder of both. For B. Melasky, a two-story frame residence, to cost \$4,000; J. N. Preston & Son, builders. Mr. John Wayland will build a fine store and warehouse at the corner of Lavaca street and North avenue. The hospital building at the asylum, a two-story brick, will be built for \$7,500; A. A. McShannon, contractor.

Chattanooga, Tenn.—Mr. A. C. Carey, city engineer, reports the following in course of construction in that city: For M. E. University, brick building, cost \$40,000. For Baptist church, a \$20,000 edifice. For Christian church, a brick structure, cost \$10,000. For D. B. Loveman & Co., brick business block, cost \$50,000. For J. W. Adams, brick business block, cost \$10,000. For city of Chattanooga, brick addition to school building, cost \$8,000. For Read & Lee, brick business house, cost \$8,000. For W. W. Jackson, brick business house, cost \$8,000. For Sol. Simpson, brick business house, cost \$5,000. For D. C. Millan, brick residence, cost \$8,500. For J. W. Adams, stone residence, cost \$10,000. For Dr. W. E. Raht, frame residence, cost \$7,000. For Dr. J. L. Gaston, frame residence, cost \$2,000. For J. P. Wilkinson, frame residence, cost \$2,500. For J. T. Howard, frame residence, cost \$2,000. For W. P. Dale, frame residence, cost \$2,500. For A. Gillespie, frame residence, cost \$3,000. For A. C. Downs, frame residence, cost \$3,000. For N. Sanders, frame residence, cost \$2,500. For Mrs. Gillespie, frame residence, cost \$2,500. For Ben. Bell, frame residence, cost \$2,500. For A. W. Judd, frame residence, cost \$3,000. For E. Gill, brick residence, cost \$3,000.

Cheboygan, Mich.—Architect Joseph Cochran reports: For G. F. Randels, cashier of First National Bank, of Cheboygan, a two-story cottage, stone foundation, balloon frame, sheathed on both sides and papered outside of posts, 39 by 46 feet, finished in modern style, cost \$3,500. For E. Nelson, two-story frame dwelling, 35 by 45 feet, cost \$4,000. Drawings made for sundry buildings contemplated, the aggregate cost of which will be about \$10,000.

Chicago.—Architect W. W. Boyington reports the completion of the plans for the work on the State House at Springfield. At a recent meeting of the State House Commissioners and Mr. Boyington, it was determined to entirely remodel the front entrances and steps, and to use granite for the steps instead of limestone. Granite will be used also for the portico columns and other exposed places. The lower corridors, rotunda and part of the offices will be finished in marble. The inner dome will be principally of iron with ornamental glass centers. Illinois limestone will be discarded, except as much thereof as is on the grounds or already cut at Joliet.

Architect S. M. Randolph reports: For Capt. James A. Sexton, at 561 La Salle avenue, dwelling, three stories, Connecticut blue stone, 30 feet front, cost \$10,000; ready for plastering; contractors: Amos Ely, mason; Henry Furst, cut stone; W. H. Adams, carpenter. For G. Wurtz, at 900 and 902 north Halsted street, two stories with tenements above, Anderson pressed brick front, 43 feet, cost \$16,000; roof is on; contractors: Wm. H. Cameron, mason; Henry Kerber, cut stone; Wm. P. Fitzpatrick, carpenter. For H. M. Hooker, plans for five two-story dwellings on Thirty-first street and Groveland Park avenue, Anderson pressed brick fronts, cost \$23,000; may not be built until next year. For H. M. Hooker, corner Page street and Washington boulevard, remodeling frame dwelling, cost \$5,000; work being done by the day. For S. D. Ward, at Lake Forest, Ill., remodeling frame dwelling, cost \$3,000. For Dr. Simms, on Lake avenue, near Forty-third street, two-story dwelling, pressed brick front, cost \$5,000; roof is on; contractors: Robinson & Minor, masons; F. B. Tate, carpenter. For James Holmes, at 75 Silver street, addition to dwelling, cost \$2,000. For Bishop Fallows and B. F. Jacobs, on northwest corner of Washington boulevard and Carpenter street, a block of tenements, stone fronts on both streets, 125 by 150 feet, cost \$30,000; letting contracts. For town of Lake View, high school building, corner of Ashland and Graceland avenues, three stories, rock-faced stone on all sides one story high, pressed brick above, 116 feet on Ashland avenue by 82 feet on Graceland avenue, cost about \$30,000.

Architect Jos. L. Silsbee reports: For James E. Taylor, on corner of Calumet avenue and Gano street, a two and a half story residence, pressed brick and brownstone, 40 by 50 feet, cost \$12,000; contracts not let. For the All Souls' Society, church on corner of Langley avenue and Oakwood boulevard, two stories, the first of brick and upper one frame, 60 by 70 feet, parsonage on second floor, cost \$10,000; contract not let. For Wm. F. White, at Topeka, Kansas, a two and a half story residence, all of stone, 40 by 60 feet, cost about \$10,000; contract not let. For Gies & Co., at Buffalo, New York, a building for lithographing establishment, five stories, pressed brick, with terra-cotta ornamentation, cost \$25,000; contracts not let. For Mr. Francis, of Buffalo, New York, residence, two and one-half stories, pressed brick, 30 by 50 feet; \$10,000; contracts not let.

Architect C. M. Palmer reports: For Potter Palmer, a new reading room for the Palmer House, semi-circular in form, 30 by 80 feet, and 26 feet high in main court, of Moorish design, mansard roof, with prismatic light, cherry woodwork, wainscoting and floor of marble, cost about \$25,000; Pullman Company, carpenters: Richards & Kelly Mfg. Co., ironwork and lights. Also for the Palmer House a Turkish bathing department for ladies, 80 by 80 feet, under the ladies' entrance, cost about \$20,000. For Edwin Leger, on South Park avenue, near Thirty-third street, a block of dwellings, two stories and basement, pressed brick, 50 by 65 feet, cost \$10,000; under way. For W. L. Moss, on Vincennes avenue, near Thirty-eighth street, block of dwellings, cutstone front, three stories and basement, 66 by 50 feet, cost \$12,000. For John Borden, a burial vault at Oakwood cemetery, 14 by 21 feet, of polished Vermont granite, cost \$9,000.

Architect S. S. Beman reports: For Studebaker Bros. Manufacturing Company, an eight-story and basement warehouse, on Michigan avenue, between Van Buren and Congress streets; the basement and first story, possibly the entire front, will be of granite, 107 feet on Michigan avenue, by 172 feet deep, cost \$250,000.

Architects Burnham & Root report: For I. H. Leidigh, a two-story, attic and basement residence, pressed brick and brownstone, 45 by 70 feet, cost about \$20,000. A court house in Kenosha, Wis., stone basement, two stories above of pressed brick; court room, 40 by 60 feet, with open timber roof, 40 feet high, wainscoted eight feet high with old oak, roof supported by hammer beam trusses, ceiling paneled in oak, windows of court room entirely of Venetian glass; in addition to the offices for the court are rooms for the city council and city fire department. Also sheriff's residence and jail in Kenosha, two stories and basement; first story of pressed brick, the second, timber and slate, the timber construction being filled in with brick; the jail has ten cells, with wrought iron faces. For K. C., Ft. S. & G. railroad, at Fort Scott, Kansas, two depot buildings, one 150 by 50 feet, the other, 150 by 40 feet, two stories, pressed brick and cut stone.

Architect G. Isaacson reports: For G. F. Foster, at Evanston, Ill., a two-story and cellar frame residence, 32 by 48 feet, cost \$4,500. For T. B. Brougham, at Hyde Park, a two-story and cellar frame residence, 32 by 48 feet, cost \$4,500. For W. H. Brown, at Evanston, a two-story and cellar frame residence, 37 by 64 feet, cost \$10,500. For parsonage for Methodist Church at Evanston, two stories, brick, 23 by 44 feet, cost \$2,000. For J. Anderson, four-story brick stores and flats, on West Indiana street, 25 by 80 feet, cost \$7,500. For E. Johnson, on West Huron street, three-story brick store and flats, 24 by 66 feet, cost \$5,500.

Architect Henry F. Deam reports: For W. C. Nelson, at South Park, four semi-detached dwellings, two stories, attic and cellar, pressed brick fronts, stamped metallic shingles, plate glass fronts, hardwood finish, 40 by 50 feet each, cost \$20,000. For John R. Laing, at 3230 and 3232 Forest avenue, block of dwellings, two stories and cellar, brown stone basement, pressed brick front with brown stone trimmings, 40 by 56 feet, cherry stairways, wood mantels of unique design, plate and stained glass fronts, lighting and ventilation very fine, cost \$10,000; under way. For Geo. W. Coolidge, at Woodlawn Park, frame residence, two stories and cellar, modified Queen Anne style, 22 by 46 feet, cost \$3,000. For John K. Fairman, at Woodlawn Park, frame residence, two stories and cellar, modified Queen Anne style, 24 by 48 feet, cost \$3,000. For a number of others at Woodlawn Park plans are being made. For Judge J. A. Jameson, at Hyde Park, a frame residence, two stories, attic and cellar, 22 by 56 feet, modern design, cost \$3,500. Sketches are made also for two brick houses for Dr. Jameson. For Dr. T. J. Reid, at Ravenswood, a two-story and cellar frame residence, 26 by 50 feet, cost \$4,000.

Architects Edbrooke & Burnham report: For Marinette, Wisconsin, a two-story frame school house, 74 by 75 feet, cost \$7,000.

Architect W. L. Carroll reports: For A. L. Crocker, on Indiana street, between State and Cass, four-story and basement flat building, front of ornamental pressed brick, 25 by 70 feet, cost about \$9,000; contracts not let. For H. Hulvey, on 36th street, between Wabash and Indiana avenues, two-story, pressed brick front, flat building, 22 by 50 feet, cost \$3,000.

Architects Wheelock & Clay report: For C. P. Dewey, on corner Thirty-third street and Groveland Park avenue, dwelling, two stories, cellar and attic, rock-faced stone front and sides, 42 by 60 feet, slate roof, hardwood interior finish on main floor and halls, cost \$20,000; under way; Wm. Zeulsdorff, mason; H. W. Hyde, carpenter. For C. B.

Sawyer, on Sawyer avenue, near Ogden avenue, two two-story dwellings, each 22 by 40 feet, Anderson pressed brick fronts, cost \$3,000 each; G. H. Johnson, contractor. For C. S. Hutchins, on Jefferson avenue, between Fifty-second and Fifty-third streets, three three-story dwellings, each 20 by 50 feet, pressed brick fronts, with brownstone trimmings, cost \$4,000 each; Angus & Gindele, contractors. For G. H. Tracy, at Sterling, Ill., a two-story and attic villa, brick, 30 by 50 feet, cost \$7,000.

Architect Julius Huber reports: For B. Moeck, store building, on corner Thirtieth and State streets, three stories, pressed brick front, with stone trimmings, 25 by 92 feet, cost \$16,000; contractors: Henry Appel, mason; G. Brebach, carpenter. For M. Thomas, 59 Florimond street, flat building, two stories, attic and basement, pressed brick front, stone trimmings, 21 by 50 feet, cost \$4,500; contractors: Chas. Thiele, mason; P. Pauler, carpenter. For Geo. Atzel, at 106 Wells street, store building, four stories and basement, pressed brick front, 28 by 72 feet, cost \$9,000; contractors: D. Lane, mason; building, pressed brick front, 22 by 70 feet, cost \$6,000; contractors: J. W. Cassell & Co., carpenters. For Thos. Parker, at 522 west Monroe street, three-story and basement, pressed brick front, terra-cotta trimmings, copper bays and cornices, 25 by 70 feet, cost \$6,500; contractors: A. Hernowsky, mason; J. W. Cassell & Co., carpenters. For J. N. Hathaway, corner River and south Halsted streets, coal shed, cost \$10,000. For E. S. Hartwell, at 41 and 43 Pearson street, two dwellings, two stories, attic and basement, pressed brick and terra-cotta front, 34 by 70 feet, cost \$12,000; contractors: McCarty & Co., masons. For Elkan & Stern, at 590 Dearborn avenue, two residences, two stories, attic and basement, cutstone front, Wyoming bluestone, mansard roof, elegantly finished inside, 23 by 75 feet each; cost \$20,000; contractors: D. Lane, mason; G. Schmidt, carpenter. For E. Miller, at 1624 Diversey avenue, one and a half story frame residence, parlor, reception-room, library, dining-room, principal chamber, children's room, children's bedroom, kitchen, bath, storeroom, pantry and conservatory on first floor, steam heat, 34 by 60 feet, cost \$4,500. For F. Link, corner State and Chestnut streets, residence, two stories, attic, and basement, pressed brick front, stone trimmings, 13 by 39 feet, cost \$5,000; contract not let. For M. Laux, on Delaware place, near State street, flat building, three stories and basement, pressed brick, 31 by 50 feet, cost \$4,500. For German Lutheran church, at Blue Island, alterations, tower and extension, Joliet limestone, cost \$6,000. For W. Young, on Hill street, two flat buildings, three stories and basement, pressed brick front, 22 by 70 feet each, cost \$11,000. For J. Orschel, at Miles City, Montana Ter., frame residence, one and a half stories, 34 by 55 feet, cost \$12,000.

Architects Fromann & Jensen report: For C. Waters, corner Bellevue place and State street, four-story and basement flat building, pressed brick front, terra-cotta trimmings, 50 by 40 feet, cost \$22,000. For J. E. Hochbaum, on East Division street, near Wells, store building, 25 by 80 feet, three stories, pressed brick front, stone trimmings, cost \$11,000. For Wm. L. Kroeschell, at 453 Dayton street, two-story and attic residence, pressed brick, 35 by 50 feet, cost \$7,000. For C. E. Mantz, on Bellevue place, near Lake street, three story and basement residence, basement McArthur brownstone, upper stories terra-cotta and brownstone, 25 by 65 feet, cost \$12,000. For Mrs. Henne, on Wells street, near Division, three stories, stores and flats, pressed brick front, 75 by 60 feet, cost \$20,000. For Mrs. Smith, on Astor street, near Goethe, three stories and basement dwelling, artesian well stone for basement, pressed brick and stone above, 22 by 50 feet, cost \$7,000. For R. Schloesser, in Lake View, three-story, attic and basement residence, basement McArthur brownstone, pressed brick front, with terra-cotta and McArthur brown stone trimmings, slate roof, 40 by 65 feet, cost \$25,000. For Geo. and N. C. Nelson, at 351 Dayton street, two-story flat building, pressed brick and McArthur brownstone front, 22 by 65 feet, cost \$6,500. For E. H. H. Uber, at 940 Milwaukee avenue, store and flat building, three stories, basement and attic, pressed brick front, stone trimmings, 25 by 80 feet, cost \$18,000. For town of Addison, Ill., three-story and attic school house, pressed brick, 70 by 70 feet, cost \$25,000. For Geo. Rahls, on Ewing place, two-story attic and basement residence, pressed brick front, stone trimmings, 28 by 65 feet, cost \$10,000. For Humboldt and Garfield parks, Chicago, conservatory buildings for each, which in general plan, construction and appearance will be much alike, wooden posts, glass roofs and domes, each 216 feet long by 90 feet deep, cold and hot houses each 26 by 60 feet, each with four propagating houses 12 feet wide by 100 feet long, exotic houses, 68 by 48 feet and 70 feet high, each supplied with office, potting, seed, boiler and fuel rooms, main entrances and passages of generous size, cost of Humboldt house \$18,000, of Garfield house about \$17,000.

Architect Fred. Keltenich reports: For Geo. Edwards, on Taylor street, west of Ashland avenue, block of flats, three stories, 120 by 54 feet, and store building three stories and basement, 25 by 62 feet, St. Louis pressed brick fronts, cost \$22,000; taking figures. For P. Robinson, corner South Halsted and 26th streets, store building, two stories and basement, Anderson pressed brick, 25 by 66 feet; under way; Anton Holpuch, contractor. For August Ratke, at 293 Thirteenth place, flat building, two stories and basement, Anderson pressed brick, slate roof, 22 by 50 feet, cost \$3,200.

Architect Aug. Bessler reports: For F. W. Mauver, three-story and basement store building on northwest corner 12th street and Hermitage avenue, Indiana pressed brick front with Lemont limestone trimmings, 25 by 80 feet, cost \$9,000; under way. For H. Gauske, two-story and basement store and dwelling, corner Twenty-first and Robey streets, Indiana pressed brick with Lemont limestone trimmings, 25 by 75 feet, cost \$5,000; under way. For Mrs. Anna Blatter, three-story and basement dwelling, corner 19th and Brown streets, Indiana pressed brick front, with Lake Superior stone trimmings, 22 by 64 feet, cost \$5,400; under way. For David Vollrath, two-story and basement store building, corner West 21st and Leavitt streets, Indiana pressed brick with Lemont stone trimmings, 25 by 80 feet, cost \$6,000; under way. For Gustave Carlson, two-story and basement dwelling, at 34 Moore street, Anderson pressed brick front with Lemont stone trimmings, 21 by 42 feet, cost \$3,300; projected. For Mrs. Ann O'Connor, two-story and basement dwelling, at 351 West Fourteenth street, Indiana pressed brick with Lemont stone trimmings, 22 by 38 feet, cost \$2,600; under way. For Wm. Oakley, at 347 Centre avenue, three-story and basement dwelling, Indiana pressed brick front, with Lemont stone trimmings, 22 by 64 feet, cost \$4,300; under way. For Wm. Schief, on West Harrison street, near Leavitt, three-story flat building, Anderson pressed brick front, Lemont stone trimmings, 22 by 56 feet, cost \$5,000; under way.

Architect J. J. Flanders reports: For John W. Lowe, on corner of Clinton and Madison streets, addition to brick, four stories, 25 by 25 feet, and additional story on main building, 25 by 125 feet, brick, cost \$7,000; contractors: Steinmetz & Eilenberg, carpenters; Petersen & Delaby, masons. For city of Chicago, school house on Hudson avenue, three stories and basement, with large hall in attic, brick, mansard roof, elaborate dormers and terra-cotta panels, 80 by 125 feet, cost \$50,000; contracts not let. For city of Chicago, a three-story brick store house, on School street, between Desplaines and Halsted streets, 40 by 100 feet, cost \$28,000. For John O'Malley, on Dearborn near Thirty-first street, flat building, three stories, pressed brick, cut stone trimmings, 50 by 100 feet, cost \$8,000. For Hiram Harms, at Petersburg, Ill., two-story and cellar residence, brick, 40 by 50 feet, cost \$4,000. Plans are being made for car barn for the Chicago Horse and Dummy Railway Company, to be erected on Harrison street and Western avenue, two stories, 168 by 275 feet, to cost about \$50,000. Plans are being made for a residence for Thomas Brennan, two stories and cellar, limestone front, 35 by 50 feet, cost \$6,000. Also for Thomas Brennan, plans for a three-story flat building, pressed brick front, 25 by 75 feet, cost \$6,000.

Architects Bauer & Hill report: For Conrad Seipp, on Groveland avenue and Thirtieth street, a block of three dwellings, two stories and basement, Anderson pressed brick, brownstone and terra-cotta, granite steps, cost \$21,000; contractors: Henry Appel, mason; Jno. L. Diez & Co., carpenters; Falter Bros., cut stone. For J. H. Dunham, in Madison Park, two dwellings, two stories, basement and mansard, rock-faced artesian well stone front, 50 by 51 feet, cost \$10,000. For L. Silverman, estate, store and flat building on Milwaukee avenue, three stories and basement, cost \$8,000.

Architect R. E. Schroeder reports: For M. Brand & Co., on Elston avenue, near Fullerton, rebuilding brewery, recently burned, five stories, brick, iron and tiles, absolutely fireproof, 60 by 185 feet, cost about \$50,000; contractors: Chas. Helman, mason; iron from Pittsburgh, Pa. For Herman Krieser, on Fullerton avenue, three-story flat building, pressed brick front, 24 by 65 feet, cost \$6,000; contracts not let. For Charles Coerper & Co., on Webster avenue, four story brick brewery, 75 by 64 feet, cost \$24,000; contracts not let.

Cincinnati, O.—The following is reported by the secretary of the Builders' Exchange: Business is improving, and competition has been lively and close for fat contracts. The architects' offices during the past month have presented some of their old-time scenes of activity. Ground has been broken for the handsome Gaff-Kinney block on Fourth street, and the contracts aggregate about \$125,000.

The new Lincoln club house is under way, and the contractor, G. F. Nieber, will push things. When done, the improvement, costing \$18,000, will be a great addition to the city and square.

The new crematory will be located in the center of a two and one-fourth acre tract of land, on Dixmyth avenue, Clifton, recently purchased at a cost of \$4,000. Of the building plans submitted that of architects Plympton & Trowbridge was adopted. The cost

will be \$15,000. The architecture somewhat resembles that of a modern Italian villa. The balustrade is of Italian marble, and is the same costly work of art that once adorned the Boyle mansion. The building will be about 55 feet wide, 65 feet long, and will have but two floors. The basement will contain the incinerating apparatus. The ground floor will contain the auditorium, reception-rooms, etc. Landscape gardener Haelelin has been retained, and the work of laying off the grounds has been commenced under his supervision. Within two or three weeks the winding road from Dixmyth avenue to the site of the crematory will be completed. Ground will be broken for the foundation at once, and the building will be ready for occupancy within four months thereafter.

The plans for the new Musik Verein Halle were prepared by Mr. Hannaford. The general style of the front is a Berlin rendition of the classic. The lot on which the building is being erected is 52 feet 1 inch by 100 feet in depth, and its height to the apex of the pediment will be 70 feet. On the first or ground floor will be three bowling alleys, 98 feet bowling length, the bar, and a completely furnished kitchen. Connecting this second floor with both the kitchen and the bar will be a dumb waiter. On the second floor will be a large room for rehearsals and dining purposes, cloak and toilet rooms, office of the society, handsome vestibule and smoking-room. The two upper floors will be merged to form the concert hall. The auditorium will measure 64 by 48 clear of the stage. Across the front will be the gallery, and underneath this a parlor 23 by 16 feet. Across the rear may require, may be added to the space of the auditorium by throwing back its folding doors. The stage to be completely equipped, will measure 37 feet proscenium width by 18 feet in depth. The front will be fashioned of Cleveland bluestone, and the structure will cost about \$33,000.

The new Catholic church of the Assumption, on Walnut Hills, will soon be opened for service. It is of Ohio river and blue limestone, cruciform in shape, eleventh century Gothic, 138 by 66 feet, transepts 76 feet, spire 160 feet high, surmounted by a gilt cross, tower, to be used as belfry, on north side 95 feet high, walls 21 feet high, apex of roof 60 feet; 128 pews of solid white walnut and cherry, carved and massive, seating capacity 1,000, besides basement for 600 persons; floor double and concrete, so as to deaden sound; altar of white walnut, hand-carved, of Gothic design, and from base to summit 30 feet high, costing, with fixtures, \$2,000; tabernacles lined with sheet iron, and decorated with finest upholstery; the whole inside finish is in hardwood, white walnut and cherry wainscoting, choir gallery Eastlake; vestibules tiled with white Italian and rose Tennessee borders; chancel railing is in curved columns, gilt bronze panels, wheat and grapes, and the top marble; cost of building and ground about \$50,000; architect, A. C. Nash.

The board of directors of the Lincoln Club, having accepted the plans made by Architect Samuel Hannaford, will proceed to remodel the old building, and make some attractive additions to it. According to the plans, the rear half of the building will stand flush with Race street. It will be of pressed brick, with heavy freestone trimmings. The main entrance will be about the center of the Race street side. A 14-foot wide flight of marble steps will lead up to the vestibule at that entrance. From this tile-floored vestibule the marble stairway will continue direct up to the second floor, opening in rear into "Lincoln assembly-room," a hall 42 by 37 feet, with ceilings 21 feet high. Another flight of stairs descends from the vestibule into the basement, which is to be handsomely fitted up for campaign committee and restaurant purposes. The wainscoting and finish of all doors and windows will be of cherry wood, and the inside shutters of white walnut. All the windows will have polished plate glass, and over each a border of stained glass. The third-story front will be fitted up for card and billiard rooms, the rear part of that floor being taken up by the hall elevation, which is two floors high. A large bay window, 9 by 25 feet, will project from the front part of the building, on the Race street side.

Architects Oliver C. Smith and Walter R. Forbush report: Brick residence for Miss Victoria Sins, Xenia, Ohio, ten rooms, tin roof, bath-room and laundry; cost \$7,000. M. F. Mowry will build frame house of eight rooms, slate roof, pine finish, \$4,000. Riverside town hall, first story, stone; second story, brick; seating capacity, 400; cost, \$11,000; quite a picturesque structure, in Romanesque style. Double brick house for Joseph Shields, Walnut Hill; slate roof, containing respectively eight and twelve rooms, cost \$10,000. Frame house of eight rooms, slate roof, pine finish, for Mrs. C. H. Cunningham; cost \$3,500. Residence for Jos. Waite, plain brick house of two stories, slate roof and eight rooms; cost \$5,000. Residence for W. S. Cutler, cheap brick house, porch, tin roof, two stories, six rooms; cost \$2,500.

Architect Emil Reuckert reports: For F. Feitig, two stores and flats, pressed brick, four stories, freestone trimmings, tin roof, forty rooms, 32 by 104 feet; cost \$20,000; under way. For J. H. Ahlbrand, a four-story, pressed brick store and furnished rooms, 32 by 50 feet; cost \$13,000. For Geo. F. Dieterle, brick dwelling of six rooms, laundry, bath-room, etc., two-and-a-half-story; cost \$3,500. For Mrs. George Zahler, a two-and-a-half-story brick dwelling of eight rooms, laundry, bath-room, porches, with slate roof, the whole to be finished in yellow pine; 21 by 70 feet; cost \$5,500; under way.

Architect G. A. Brink reports: For John Hauck, a block of four brick houses, three stories, fifteen rooms, 80 by 100 feet; cost \$30,000; under way. For Isaac Fallor, a double brick dwelling, eight rooms each, tin roof, 40 by 75 feet; cost \$8,000; under way. For Mrs. Kruthaupt, two three-story brick houses, of 12 and 15 rooms, respectively, tin roof; cost \$10,000; under way. For H. Feldman, a double brick dwelling of 14 rooms, bath-rooms, laundry, etc., tin and slate roof; size, 36 by 60 feet; cost \$8,000; under way. For J. Osseforth, a brick livery stable, three-stories, tin roof, wooden floors, 60 by 97 feet; cost \$7,500; contracts let. For Clemens Kassen, a three-story brick store and dwelling, 10 rooms, tin roof, 32 by 80 feet; cost \$7,000; contracts let.

Architect Samuel Hannaford reports: For the Gaff heirs and J. N. Kinney, jointly, six stone stores, six stories; two stories of iron, four stories of brick, stone and terra-cotta 153 by 140 feet; cost \$125,000. Dwelling for Theo. Mayer, two-stories and attic, slate roof; style, North German Renaissance cost \$16,000. A magnificent mansion for P. J. Sorg, Middletown, Ohio, two-stories, of Mansfield stone, with Connecticut sandstone trimmings, hardwood floors, etc., nineteen rooms; cost about \$50,000. Other plans on the boards.

Gustave W. Drach, Court and Walnut streets, reports: Building for C. C. Reakirt, Jr., first floor of stores, upper two stories, flats; brick, 25 by 70 feet, gable roof. Four houses for John Webb, Jr., Mt. Auburn, built of half frame and brick, pine finish, slate roof; under way. For Joseph Meunier, a two-and-a-half-story frame cottage, eight rooms, slate roof, 24 by 50 feet; contracts let.

Cleveland, O.—Architect Theodore Rosenberg reports: For Harm & Schuster, on Woodland avenue, carriage repository and factory, 39 by 40 feet, cost \$12,000. Also plans for railroad buildings, at Washingtonville, Galion and Ashland, Ohio, not yet commenced.

Clinton, Iowa.—Architect W. W. Sanborn reports: Outlook fair; no very large jobs, but many small buildings keep all busy. For George Smith, two-story frame cottage, 33 by 50 feet, cost \$3,000; under way; W. Black, builder. For Dennis Hennessy, two-story frame cottage, 31 by 56 feet, cost \$2,500; under way; I. Piper, builder. For E. Aton, two-story frame cottage, 34 by 60 feet, cost \$3,500; under way; A. E. Wright, builder. For Clinton County, Iowa, brick jail and sheriff's residence, 44 by 70 feet, cost \$10,000; under way; A. E. Wright and Pauley & Co., builders. For school district of Lyons, Iowa, brick school house, 57 by 75 feet, cost \$10,000; under way; D. H. Scott, builder.

Dallas, Tex.—Architect J. E. Flanders reports: For T. W. Griffiths, two-story brick residence, 36 by 60 feet, cost \$6,000; contracts not let. For Mr. Robertson, two-story frame residence, 26 by 50 feet, cost \$2,000; contracts not let. For J. T. Tregwant, remodeling frame residence, cost \$3,000; under way; N. K. Wright, contractor. For Maj. W. C. Caven, three-story brick business house, 50 by 80 feet, cost \$10,000; contracts not let. For Maj. R. V. Thompkins, three-story brick business house, 50 by 100 feet, cost \$15,000; contracts not let. For Jack County, Texas, three-story stone court house, 75 by 90 feet, Strain, Weisley & Swinburn contractors. For Thomas Layden, at Forney, Texas, brick business house, 50 by 80 feet, cost \$3,500; contract not let.

Denver, Colo.—Architects F. E. Edbrooke & Co., a brick and stone dwelling on Kansas avenue, for J. V. Farnham, cost \$9,000; C. J. Kelly, builder. For G. W. Clayton, on Seventeenth and Lawrence streets, a brick and stone business block, cost \$50,000.

Detroit, Mich.—Architect G. W. Lloyd reports: For Michigan University, three-story laboratory, brick and stone, slate roof, 40 by 80 feet, cost \$10,000. For W. R. Burt, at East Saginaw, residence, three stories, brick, with stone and terra-cotta trimmings, 60 by 100 feet, cost \$25,000; most of the work done by the day.

Architect A. E. French reports: For John Boorman, three-story residence, brick, stone trimmings, slate roof, 24 by 64 feet, cost \$5,200.

Architect E. Engelbert reports: For Fred Griesbach, two-story store building, brick, with stone trimmings, 28 by 80 feet, cost \$4,500; John Griswold, builder.

Architect Peter Dederichs reports: For Polish Church Parish, a five-story brick seminary, slate roof, 130 by 70 feet, cost \$30,000; Begrien & Dulecke, builders.

Architect W. G. Malcomson reports: For Orrin Wardell, double, two-story dwelling, brick, with stone trimmings, slate roof, 45 by 60 feet, cost \$5,800; A. Beaton, builder.

Architect W. E. Brown reports: For Brush estate, a three-story store building, brick, with stone trimmings, gravel roof, 22 by 80 feet, cost \$8,000; Lane & Deitz, builders.

Architects Mason & Rice report: For S. G. Caskey, double three-story brick dwelling, stone trimmings, slate roof, 34 by 47 feet, cost \$7,000.

Architect L. Crossley reports: For the city of Detroit, Lincoln school, a three-story, eight-room, brick school building, heated by steam, modern ventilation, 77 by 75 feet, cost \$20,000. Also for the city additions to the Jefferson and Duffield school buildings, both brick, of same size, 50 by 50 feet, cost \$12,000 each. All built by the day.

Architects Schmid & Brydges report: For F. Van Dusen, a two-story brick residence, stone trimmings, slate roof, 21 by 73 feet, cost \$3,000; projected. For Mrs. Mary Plunket, a two-story brick residence, stone and terra-cotta trimmings, slate roof, 34 by 70 feet, cost \$6,500; contractors: H. Carew, mason; Mr. Uridge, carpenter. For Mr. Dickinson, block of stores, three stories, brick, with brownstone trimmings, 25 by 70 feet, cost \$8,000. For Leteker Bros., block of dwellings, three stories, brick and stone, slate roof, 64 by 82 feet, cost \$10,000; contractors: Lane & Dietz, masons; Mr. Uridge, carpenter. For Wm. B. Wesson, three-story store building, brick, gravel roof, 25 by 55 feet, cost \$4,000; Scheibner & Co., builders. For Mrs. J. W. Backus, at Marine City, Mich., a two-story store and residence, brick, with stone trimmings, tin roof, store 24 by 46, residence 25 by 58, cost \$5,000; projected.

Architects Donaldson & Meier report: For the O'Donnell estate, a block of stores, two stories, brick and stone, 52 by 80 feet, cost \$2,000; Gearing & Son, builders. For Roman Catholic church, at Pontiac, Mich., church edifice, brick, with stone trimmings, Gothic, spire 138 feet high, seating capacity about 600, heated by steam, 34 by 60 feet, cost \$23,000; contractors, H. Heitsch & Son, of Pontiac.

Architects Hess & Roseman report: For H. W. Richel, three-story addition to malt house, brick, 50 feet high, and frame elevator, covered with iron, capacity 50,000 bushels, 25 by 50 feet, cost \$15,000; contractors: Pat Dee, mason; Spitzley Bros., carpenters. C. R. Mabley, of Pontiac, Mich., a burial vault, entirely of stone, rock-faced Ionia, with Berlin stone trimmings, 17½ by 30 feet, cost \$4,500; projected; it will contain eighteen catacombs, and will be very neat. A. S. Kinner is building for Dr. Phil. Porter a double dwelling house, two stories, brick, with stone trimmings, 40 by 52 feet, cost \$4,000. John J. Martin & Bro. are building for John Strickel a block of stores, two stories, brick and stone, 94 by 65 feet, cost \$8,000. Wm. Dupont is erecting a double, two-story brick dwelling house, 45 by 56 feet, cost \$5,400. J. H. Hunt is building for the Sixteenth Street Methodist Episcopal Church an addition, 66 by 24 feet, at cost of \$4,000. J. Beck & Sons are erecting for themselves a two-story brick addition to feed-mill, 50 by 80 feet, cost \$5,000. W. H. Holland & Son are putting up for themselves a double, two-story brick dwelling house, with stone trimmings and slate roof, 45 by 70 feet, cost \$8,000. C. W. Green is building a three-story brick dwelling, 24 by 69 feet, cost \$4,000.

Permits issued during July, \$415,273.

CORRECTION.—The following report was erroneously credited to architects Donaldson & Meier in the July number. Mr. G. W. Lloyd is the architect who should have been named: For Christ's Church parish, two-story and basement church building, 60 by 45 feet, brick, stone trimmings, slate roof, cost \$11,000; Blay & Son, masons; Vincent & Co., carpenters. For Criminal Insane Asylum, two-story and basement extension and boiler-house, 42 by 75 feet, brick, stone trimmings, slate roof, cost \$14,000; R. Wallace, builder. Also steam heating for whole of asylum buildings, cost \$6,000; Sprou & McGurrin, of Grand Rapids, contractors. For Mrs. Worthington, at Omaha, Neb., two-story residence, 50 by 80 feet, brick, stone trimmings, slate roof, cost \$15,000; J. F. Coats, contractor. For Geo. Thomas, at Owosso, Mich., three-story store building, 45 by 55 feet, brick, stone trimmings, gravel roof, cost \$7,000; H. Robins, contractor. For the college at Gambier, Ohio, library and museum building, 41 by 64 feet, two stories, stone, slate roof, cost \$20,000.

In the July number eight buildings were mentioned as having been reported by architect W. E. Brown, only one of which should have been named as his. The architects of the other seven were not known, and should have been reported accordingly.

Fort Wayne, Ind.—Architects Wing & Mahurin report business somewhat dull, compared with last year, but the outlook is quite promising. They have made plans for buildings projected as follows: For Joseph A. M. Storm, a two-story brick dwelling, to be heated by steam, 42 by 51 feet, cost \$5,500. For city of Fort Wayne, a two-story brick engine house, slate roof, tower 75 feet high, 34 by 61 feet, cost \$4,000. Two other dwellings, costing \$1,200 each.

Architect H. W. Matson reports: Present condition fair, and a number of buildings will be commenced next fall. For Judge Ninde, a two-story double brick dwelling, slate roof, 44 by 44 feet, cost \$4,000; under way. Projected: For Keller Medicine Co., a seven-room, brick store building, 50 by 150 feet, cost \$6,000. For O. E. Fleming, two-story frame cottage, 30 by 50 feet, cost \$2,000. For Dr. Sites, two-story brick residence, slate roof, 26 by 50 feet, cost \$2,200. Other small buildings, amounting to total cost of \$3,000.

Frankfort, Ind.—Architect J. Q. Hammond reports the amount of improvement quite small at present, and the outlook not encouraging. Receiving bids for frame building, with brick foundation, for Deaf and Dumb Institute, at Indianapolis, Ind., 44 by 60 feet, cost \$3,000. For Elton Davis, frame dwelling, slate roof, cost \$2,000; under way. A. Kinder, builder. For M. E. Kellenberger, Yates Center, Kan., a \$1,000 frame cottage.

Fulton, Ia.—A frame church, cost \$7,000, is being erected; W. W. Sanborn, of Clinton, Ia., architect; W. Kellett, builder.

Glenn, Mich.—Architect and builder A. H. Tracy reports prospects rather dull at present. For D. D. Tourtellott, two-story and basement frame dwelling, 54½ feet front, by 48½ deep, porches, bay windows, etc., wood house attached, cost \$2,500; under way; Tracy & Compton, builders. Two frame cottages under way, cost \$1,200 each.

Grinnell, Iowa.—A correspondent writes, under date of July 25. "Three years ago the 17th of last month, a cyclone passed through this part of Iowa, striking Grinnell with terrific force, laying waste about 250 buildings, and killing many persons. Among the buildings destroyed, were two very large and fine ones belonging to Iowa college. What was to be done? Rebuild. But where was the money to come from? Appeals went forth through the length and breadth of our land for help. It came pouring in from all sides. Money was soon raised. Mr. Taylor, architect at Des Moines, was called upon, and plans were soon prepared for Alumni Hall. Then came Chicago Hall. Money for this building was given by the good friends at Chicago. Blair Hall came next, named after Hon. John I. Blair, of Blairstown, New Jersey, who was the liberal donor. Goodnow Library, now receiving the finishing touches, comes last in the ranks. This is a very beautiful building in modern classic architecture, a product of the handiwork of skilled labor; composed of Iowa and Missouri sand and limestones, and the just discovered, rare, red-tinted quartzite of Dakota; slate from the quarries of New Jersey, and copper from the mines of Lake Superior. The plan adopted, presents an edifice majestic in proportions, and combining utility, symmetry and strength. The lower hall is the reading-room, with an annex, ample for an art collection. The second story, in gallery and alcoves, has a capacity of 50,000 volumes, connected with an office, or more quiet retreat for thought and consultation, and from each easy access is had to the telescopic tower, which is so solid in construction as never to be moved by storm or tempest. The architect is Mr. Stephen C. Earle, of Worcester, Mass., whose fame is as wide as the Union. Mr. Ames, of Boston, Mass., is building a block of stores, three in number, with Anderson pressed brick and stone trimmings, to cost about \$15,000. Mrs. Holyoke is putting up a very neat business block, two stories high, to cost about \$6,000. A few private residences going up; but take it all in all, building is very quiet in this city; but prospects are good for this fall."

Indianapolis, Ind.—The Building Committee has submitted a report on bids for constructing the market house and city hall. When the bids were opened it was found that E. F. Goble's bid was the lowest, namely, \$100,000, but he failed to comply with the advertisement, in not naming his sub-contractors. The next lowest bidders were Salisbury & Stanley, whose bid for the whole work was \$102,224. By adding the lowest separate bids for the different portions of the work the committee found the aggregate to be \$101,556. This was only \$668 less than the bids of Salisbury & Stanley, and the committee recommended that the last named firm be awarded the contract.

Kansas City, Mo.—Architect F. B. Hamilton reports: For G. G. Rounds, two brick, four-story dwellings, each 22 by 38 feet, cost \$10,000; under way; Sutherland & Oliver, carpenters; Sibley Bros., masons. For Isaac Gordon, alteration of store building, three stories, 24 by 50 feet, cost \$3,000; Spencer & Bradley, contractors.

Building permits: Dr. S. F. Campbell, double brick house, cost \$5,000. W. T. Johnson, brick business block, cost \$10,000. R. G. Estelle, seven brick business stores and dwellings, cost \$23,000. A. G. Redenbaugh, four frame houses, cost \$6,000. George Sheidley, brick and cutstone business block, four-story, cost \$15,500. Thomas E. Gillespie, double brick house, cost \$10,000.

Minneapolis, Minn.—A strike of the stonemasons during the past month seriously interfered with the progress of work on many buildings, and caused no little embarrassment to contractors. The contracts for the Windom block were let, James & Ronen, of Stone City, being awarded the stonework, at \$8,000; Lewis Frederickson, the brickwork, and W. N. Pattee the carpenter work. The specifications of Architect Goodwin required that the stone should be cut in Minneapolis, but in consequence of the strike, this condition could not be complied with. For the same reason, the greater portion of the work on the Lowry-Merrick block was given to the Cook & Hyde Stone Company, of Milwaukee. The strike ended the first week in August, to the satisfaction of the strikers, but at this writing another is threatened, in consequence of a proposed reduction of wages to 45 cents per hour.

Architect Struck has prepared plans for the new \$4,000 church which St. Joseph's Catholic Church of North Minneapolis intend to build. The edifice will be 70 by 209, ground dimensions, and be located on the west side of Fourth street, between Eleventh and Twelfth avenues north. It is to be a stone church, and have a seating capacity of 1,000, and will have two towers. Work will commence at once, but it is not expected to build much above the basement until next spring.

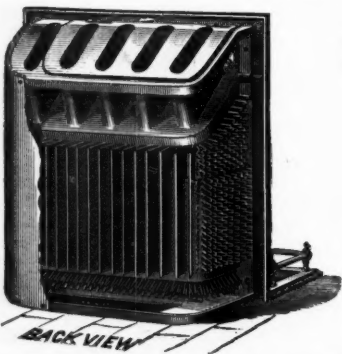
F. F. Curtis is to build a five-story brick block, with 22 feet front, and a depth of 165, on Washington avenue south. M. Griffith is to build a three-story brick building, 30 by 52, on Fifth avenue north, near Washington avenue. Two more stories are to be added, by Jackson & Cooper, to the building on Third avenue north, between First and Second streets. A. F. Kenyon, who purchased forty-four feet on Nicollet avenue, above Sixth street, during the week, proposes to build a five seven-story building on the property within a year. The Best Bros. are to build on their sixty-six feet at once. The building will be five stories high, with a red pressed-brick front, and will cost \$35,000. The lease of the Clark House property expires this fall, and Frank Holmes is reported to have refused to renew it, and to have in contemplation the erection of an office building. Harlow Gale promises that the site of the new market will be determined within the next thirty days. Coe & Farman are to build two brick warehouses on Third avenue north, between Fourth and Fifth streets, to cost \$18,000. S. G. Cook & Co. are preparing to build two more three-story warehouses adjoining their block on First street, opposite the Northern Pacific terminal. The block of apartment houses which J. W. Tousey will build on Lyndale avenue and Twenty-sixth street will have a frontage of ninety feet, and a depth of ninety. The block will be so built that it can be changed into business property. The building will be of brownstone, and will cost \$20,000. Mr. Tousey will build two brick houses at a cost of \$10,000 each, on Nicollet and Twenty-sixth streets. The Silver Lake Congregational church is to build a \$15,000 brick-veneered church on Thirty-second avenue north and Thirteenth street. Ed. F. L. Blecken has the foundation in for a comfortable and substantial house on Sixth avenue north in Oak Lake addition.

New Corporations.—Companies have been incorporated as follows: The Brighton Pier Company at Chicago, for the construction of a pier into Lake Michigan, off the east end of Thirty-first street, in the city of Chicago, and to maintain the same for the pleasure of parties; capital stock, \$300,000; incorporators, Louis Mannasse, Frederick G. Whiting, Arthur C. Doolittle and Joseph Pfirshing. The Traders' Lumber Company, of Chicago; capital, \$250,000; incorporators, B. F. Ferguson, W. H. Biddle and Francis Biddle. The Theodore Lattan, Jr., Company, of Chicago, to conduct a painting and decorating business; capital stock, \$7,000; incorporators, Theodore Lattan, Jr., Julius L. Hansen, Nathan J. Kelp and Walter R. Cooper. The Colfax Mining and Milling Company, of Chicago, to do a general mining and milling business; capital stock, \$100,000; incorporators, Edward W. Russell, Rufus C. Hall and Samuel D. Snow. The Aurora Opera House Company, at Aurora; capital stock, \$500,000; incorporators, H. H. Evans, A. W. Stolp, C. P. Dutton, E. C. Beardsley, William Egermann and A. G. Case. The Steam Fitters' Union, of Chicago; no capital stock; incorporators, George Schreiber, Edward Fleming and Henry Ahern. The Chippewa Falls Waterworks Company; capital stock, \$150,000; incorporators, E. G. Ferris, of Watertown, N. Y., and G. M. Van Valkenburg and R. D. Marshall, of Chippewa Falls, Wis. The Beloit Plumbing Company, of Beloit, Wis., with a capital stock of \$6,000; the incorporators are Carroll E. Gray, William H. Fritchman and W. H. Passmore. The Collinsville Press and Ornamental Brick Company filed a certificate of change of name to The St. Louis Press Brick Company.

Springfield, Ill.—Architects Bullard & Bullard report: For H. W. Clendenin, a two-story frame dwelling, shingle roof, 30 by 50 feet, cost \$2,400; inclosed; D. P. Hopping, builder. For Wm. Linsay, two-story brick store and office, tin roof, 18 by 70 feet, cost \$2,600; drawings made. For W. M. Brewer, two-story frame dwelling, shingle roof, 30 by 33 feet, cost \$2,500; receiving bids. For P. M. Springer, one and a half story frame dwelling, 24 by 26 feet, cost \$1,800. State of Illinois, per Governor R. J. Oglesby, additions to and alterations of the executive mansion, two stories and basement, pressed brick, tin roof, 26 by 31 feet, cost \$4,000; plans being made. For W. Y. Sanders, drawings are being made for a Howe truss bridge, 15 by 100 feet, to cost \$1,200.

Springfield, Mo.—Architect S. B. Abbot reports good prospects and many buildings contemplated, and the following under way: For Bank of Springfield, business house, three stories, Warrensburg stone front, Italian marble columns, west wall pressed brick and Warrensburg stone, metal roof, Queen Ann style, art glass, 22 by 100 feet, cost \$12,000; under way. For H. C. Dryden, eight-room cottage, 40 by 60 feet, cost \$3,000; under way. For John Smook, a three-story and basement brick, mansard roof, dwelling, 24 by 48 feet, cost \$4,000. For D. S. Flowers, at Pierce City, Mo., a two-story business house, pressed brick, iron and stone front, plate glass, modern, East Lake, 50 by 80 feet, cost \$5,000. For School Board of Cherryvale, Kansas, a three-story stone and brick school house, Teutonic plan, English roof, 90 by 120 feet, cost \$10,000.

Streator, Ills.—Architect F. S. Allen reports: Condition, good; outlook, very good. For O. Greggs, frame residence, cost \$2,000; under way; S. Egbert, builder. For Dr. S. S. Elder, frame residence, cost \$3,000; under way; P. Schlachter, builder. For J. Ewing, store and office building, 25 by 100 feet, cost \$6,000; Mulford, Lukins & Co., builders. For Christ Church, Pontiac, Ills., stone church, 25 by 60 feet, cost \$4,000; projected. For Catholic Church, at Princeville, Ills., stone building, 40 by 95 feet, cost \$8,000; under way. For J. Flanagan, frame residence, cost \$3,000; projected.



EDWIN A. JACKSON & BRO., 77 BEEKMAN ST., NEW YORK. Heat-Saving and Ventilating GRATE.

SOME MICHIGAN REPORTS.

(See Back Numbers for Illinois Reports.)

The grate is situated in the parlor, 15x14 feet, with which communicates a sitting-room, 17x14 feet, which is used as a bed-room. The grate has kept the air pure, and there has been no frost nor frozen flowers, nor any severe cold in our house the whole winter.
EDWIN L. KIMBALL, M.D., Jackson.

The grate thoroughly warms and ventilates a room 16x14 feet when the mercury ranges from 30° to 40° below zero. In more moderate weather it also warms a second room, 12x14 feet.
JOSEPH RIPLEY, Sault Ste Marie

We heat a large nursery with the grate, and find it wonderfully good in keeping the air in the room pure—a very difficult thing to do in a nursery full of children of all ages.
MRS. D. CARTEE (Matron),
Home of the Friendless, Detroit.

Send for Descriptive Circulars, Catalogues and Reports from your own State and neighborhood.

St. Louis, Mo.—A. A. Talmage, general manager of the Wabash railroad, will build a \$25,000 residence, Norman renaissance style, on Washington avenue, between Grand and Cabanne; James Stewart & Co., contractors. A. P. Ghio is having plans prepared for a four-story business block on the northwest corner of Fifteenth street and Clark avenue. Wm. Grasmuch contemplates the erection of a \$10,000 dwelling in Vandeventer place. M. A. Rosenblatt is having plans prepared for a block of flats on Sarah street, between Baker and Lindell avenues. Stewart & Co. are building eight six-room dwellings for Dr. J. H. McLean, on the west side of Fourteenth street, near North Market, at a cost of \$16,000. They have also let contracts for a residence for Mrs. Kimball, in Cabanne place, to cost \$4,000; also a residence for Miss Blennerhassett in Cabanne place, to cost \$3,000. They have made plans for a forty-room hotel to occupy the site of the old Globe hotel, at Louisiana, Mo., to cost \$15,000.

St. Paul, Minn.—A late issue of the *Pioneer Press* says: Building operations are being steadily prosecuted in every section of the city, some notable and important improvements being under way. The court house walls are rising gradually, and they now begin to assume massive proportions. Enough of the stone work can be seen already to give one an idea of the imposing and attractive appearance of the structure when completed. It will certainly be in every way an honor and credit to St. Paul. The front wall on Fourth street and the walls in the rear on Cedar street are up as far as the first floor, and the work is being pushed vigorously. The brick roundhouse of the Minnesota & North-Western Railroad, in West St. Paul, is almost completed, and will soon be ready for occupancy. The Minnesota club house, on Fourth and Cedar streets, is going ahead rapidly, and an idea of what the building is going to be can readily be formed. The improvement of Commodore Davidson's old opera house, on Wabasha street, between Third and Fourth, will be finished before the summer ends. The ground floors will be lowered to the level of the street, and the two upper floors converted into offices. The front will be improved without being torn out, and a handsome building will be the result. Work on the basement of the Bank of Minnesota has gone so far that joists for the first floor are being put in. The Hale block, on the corner of Third and Jackson, has grown above the first story; the Michaud and Capehart blocks are rising rapidly; in fact, on almost every street some business or public building is under way.

Mrs. De Merrill will erect a two-story brick residence on corner Ninth and Minnesota streets, finished in hardwood throughout, at cost of \$3,000. A. B. Foos is about to erect a double brick tenement house on Washington street, near Eagle, at cost of \$10,000. A boiler and engine room will be erected for the Board of Education, adjoining the high school, at cost of \$3,000. Mr. Van Wyck will build a four-story brick building for the use of the North-Western paint works. The city has taken out permits to build four two-story engine houses, to cost \$4,000 each. R. C. Wiley and F. J. Romer are building a double brick dwelling on Ramsey street, near Forbes, to cost \$18,000. A four-story block for stores and offices will be erected for the McQuillan estate on Seventh street, near Minnesota, at a cost of \$40,000. R. F. Wright and R. P. Lewis are building three dwelling-houses on Summit avenue, near Snelling avenue, to cost \$20,000. T. D. Simonton is building a \$4,000 addition to his residence on Summit avenue, near Rice street. G. B. Elwell is erecting a frame dwelling house on L'Orion street, near Mount Airy, to cost \$3,000. The Wisconsin Central Railroad Company is building a frame roundhouse on East Fifth street, near Phalen creek, just east of Bradley street. F. W. and R. M. Hunter are building a \$10,000 frame block on the corner of Exchange and Ellen. A. Steidt is building a \$3,500 brick store and dwelling on Greenwood street, near Winifred. A. D. S. Johnston is erecting a dwelling house on Ashland avenue, near Mackubin, to cost \$5,000. Work has commenced on the new brick German Lutheran Church on Dearborn street, near Goff, in West St. Paul, to cost \$8,000. Wm. Dunlap will erect a brick block of two-story stores and dwellings, at the corner of Tenth and Wabasha streets, to cost \$11,000. Mr. Browning will erect a three-story brick business house at 378 Jackson street, at cost of \$20,000.

The contract for the erection of the superstructure of the new court house was awarded to Mathias Breen, which includes Kasota cutstone for all outside walls, work and materials for all walls, terra-cotta, iron work, Jasper pilasters and polished granite columns, lamp posts and all masonry, for \$264,300. The court house commissioners fixed bond at \$50,000, with two sureties, and the attorney of the board will draw the contract at once. The architect was ordered to draw plans for the iron roofing and slating, and to have bids for the same advertised for and submitted by October 1.

Topeka, Kans.—Architects Haskell & Wood report: Contracts have recently been let from our office as follows: For stone cornice and copper roofing on state capitol, east wing, \$23,000, to Henry Bennett. For Natural History building of State University, \$50,000, to John McFarland. For Boswell Memorial Library, Washburn College, Topeka, \$20,000. For extension to State Reform School, \$40,000. For Presbyterian Synodical College, at Emporia, \$75,000.

Washington, D. C.—The contract for furnishing the granite for the stairways of the west wing of the state, war and navy department building was let to the Cape Ann Granite Company, for \$24,737.

York, Neb.—Architect W. A. Bell reports plans commenced for Commercial State Bank, at Holdrege, Neb., addition to city block, two stories, Chicago pressed brick front, galvanized iron and stone trimmings, 25 by 100 feet, cost \$5,000. Also a one-story bank building, at Antelope, Neb., cost \$1,500, and a \$1,200 dwelling at Denver Junction, Colorado.

Zanesville, O.—Architect Henry C. Lindsay reports: For Charles Albert, two-story brick residence, slate roof, 36 by 40 feet, cost \$3,500; under way: Dunzweiler & Co., builders. For City Workhouse, fifty-six cells, 4½ by 7 feet, brick and iron, cost \$5,000; under way: T. B. Townsend, contractor. For L. French & Son, remodeling warehouse, 50 by 75 feet, cost \$7,000; Dunzweiler & Co., contractors. For W. M. Shinnick, double brick two-story dwelling, 33 by 48 feet, cost \$3,500; contract not let. For New Carlisle, Ohio, frame school house, cost \$4,000. Two cottages at total cost of \$3,300.



I heat three rooms with the grate most of the time; two of them 15½ feet square each, and the other 12 feet square. In extremely cold weather we close the small room. It is much warmer in rooms thus heated than we formerly could get with a base-burning stove, and it takes no more fuel. The ventilation is splendid.
M. WESTBROOK, Kalamazoo.

One of my grates heats my dining-room, 15x20 feet; the other is in my sitting-room, and it also thoroughly warms a chamber above the sitting-room. Having the grates, I have kept my furnace with a very small fire, and I have thus saved greatly in fuel, as is proved by a friend who has been compelled to use twice as much fuel to heat an equal space.
J. H. PENMANN, Battle Creek.

ÆTNA IRON WORKS

Cor. Kingsbury and Ohio Sts.,

CHICAGO, ILL.

CLARK, RAFFEN & CO., Proprietors.

**COLUMNS, WROUGHT IRON BEAMS,
LINTELS, GIRDERS,
SILLS, SHUTTERS,
RAILINGS, GRATINGS,
VAULT, SIDEWALK AND PLATFORM LIGHTS.**

And Every Description of

Iron Work for Buildings.

Correspondence Solicited.

BOYNTON FURNACE CO.

94 Beekman Street, NEW YORK.

SOLE MANUFACTURERS OF
BOYNTON'S
CELEBRATED
FURNACES.

With 1883-84 Patent Improvements. Ranges, Baltimore Heaters, Etc.

N. A. BOYNTON, Pres.
C. B. BOYNTON, Sec. & Treas.

*Inventors of all Boynton
Furnaces which have been on
the market for over 33 years.*

Over 50,000 BOYNTON
FURNACES in use.

To secure "Boynton's" latest Improvements, Architects are requested to specify Boynton Furnace Co's Manufacture.



THE
England Sash Lock

Locks and holds either sash at any desired point, with or without cords, weights, or pulleys.

Locks are not put on the sash cumbersome and easily tampered with, but are placed in the frame,—not seen—and working a powerful catch against the edge of the sash.

Locks are operated with a key passing through a small perforation in the casing. The window is locked as securely as a door can be locked. The sash cannot be moved without the key. The Lock defies the burglar.

Correspondence is invited and Agents are Wanted.

Address,

A. KALSTROM, - - - WASHINGTON, D. C.



C. J. Meyer & Sons Co.

Fine Wood Mantels,

Foreign and Domestic Tile,

Grates, Brass Goods etc.

Office and Salesrooms

20, 22, 24 and 26 Market St.

Chicago, Ill.

UNION FOUNDRY AND PULLMAN CAR WHEEL WORKS, N. S. BOUTON, PRESIDENT.

Architectural Iron Work, CAST OR WROUGHT.

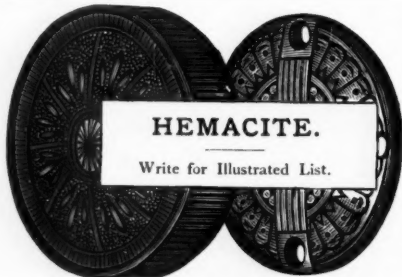
ESTIMATES MADE AND CONTRACTS TAKEN IN ANY PART OF THE COUNTRY.

Architects furnished with our Manual, gratis.

LOWEST PRICES ON BEAMS AND CHANNELS.

WORKS: Pullman, Ill.

OFFICE: 408 First National Bank Building.



HEMACITE.

Write for Illustrated List.

*Easily the Best and Handsomest
Interior Door Handle.*

Will be promptly supplied by any dealer in
Builders' Hardware.

We solicit your inquiries and orders.

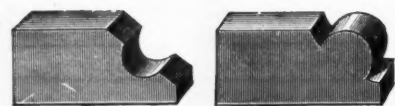
ADDRESS,

DIBBLE MFG. CO., - Trenton, N. J.
100 Chambers Street, N. Y.
625 Market Street, Phila.
86 Pearl Street, Boston.
148 Lake Street, Chicago.



ADDRESS,

DIBBLE MFG. CO.
TRENTON, N. J.



BRICKS!

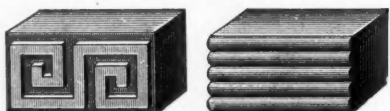
THE HYDRAULIC
PRESS BRICK CO.
ST LOUIS, MO.

Make a Specialty of Ornamental & Plain
Red Front Pressed Brick,

Manufacturing Annually over

TEN MILLIONS.

They guarantee that the quality, finish and Color, are unsurpassed, if not unequalled by any other bricks made in the United States.



Samples of all brick manufactured by
this well known Company are shown at
the office of their Chicago Agent,

LOCKWOOD & KIMBELL,
Polk and Fifth Ave.

READERS will please mention INLAND ARCHITECT AND BUILDER when corresponding with Advertisers.

PEERLESS BRICKS.

The Peerless Brick Co.

OF PHILADELPHIA,

MANUFACTURES AND KEEPS IN STOCK

ARCHITECTURAL SHAPES,

300 KINDS, ALSO

RED Pressed Fronts. Extra fine in color and quality.
BUFF, Solid rich color—Beautiful. One of the finest
bricks made.

DRAB, Handsomer and more durable than stone.

BROWN, Very strong and superior to brownstone.

GRAY, A very desirable shade.

BLACK, Velvety jet face. The only black brick fit for a
fine building, producing a beautiful effect, and free
from the glossy and greasy look of other black or
dipped bricks.

DIAPERING AND ORNAMENTAL BRICKS
MADE IN THE ABOVE COLORS.

ARCHES OF ALL KINDS.

OFFICE:

1003 Walnut St., Philadelphia.

SAMUEL HART, JOSEPH WOOD, Jr.,

PRESIDENT.

TREASURER.

The Peerless Brick Company

Wish to inform Architects and Dealers that no one is
authorized to act as Agent for the sale of
our manufactures.

Illustrated catalogue and Price List sent free
on application.

BROWN BROS. MFG. CO.

(EDWIN LEE BROWN, President.)

SUCCESSORS TO



The "CLINTON AND JEFFERSON STREETS" and the
"CANAL STREET AND CANALPORT AVENUE" Horse
Cars, starting from the corner of State and Randolph
Streets, pass directly by our works. The "VAN
BUREN STREET" and the 12TH AND CANAL STREETS"
Horse Cars, starting from the same place, pass within
one block.

BROWN BROTHERS MFG. CO.,
N. W. Corner Clinton & Jackson Streets, CHICAGO.

Telephone 4085.

BALL BEARING DOOR HANGERS

For House Doors, Car Doors, Elevator Doors.

Frictionless. Indestructible. Perfect. Send for Circular.

COHOES IRON FOUNDRY & MACHINE CO., COHOES, N. Y.

WM. PAUL GERHARD, C. E.,

May be consulted by architects or house owners on questions relating to

*Heating and Ventilation,
Water Supply and Drainage,
Sanitary Plumbing and
Sewage Disposal of
Private Residences
and Public Buildings.*

Construction of Work Superintended. Reports, Plans, Specifications and Estimates prepared. Sanitary inspections made of houses for sale or to rent. Correspondence solicited.

Office: 41 DEY STREET, NEW YORK.

SALESMAN WANTED.**TILE, MANTEL AND GRATE BUSINESS.**

WANTED—A man experienced in Tile, Mantel and Grate business, to travel for the U. S. Encaustic Tile Company. A good salary will be paid to a capable man.

SITUATION WANTED.

A party well posted in Building Materials, and with an extensive personal acquaintance among Architects, is open for an engagement with an established house, or will accept an agency for a paying specialty in the building line.

Please address, "H,"

Office of THE INLAND ARCHITECT AND BUILDER.

PROPOSALS.**STEAM BOILERS.**

[At Leavenworth, Kan.]

THE NATIONAL HOME FOR DISABLED
VOLUNTEER SOLDIERS, WESTERN BRANCH,
LEAVENWORTH, KAN., July 23, 1885.

Sealed proposals will be received at the Planter's House in this city until 12 o'clock noon, August 15, 1885, for furnishing delivered on the grounds seven (7) steam boilers, according to plans and specifications which may be seen at the office of Carr & Grodavent, architects, Leavenworth, on and after July 25.

The right to reject any or all bids is reserved.

GEN. W. B. FRANKLIN, President.

E. F. BROWN, Inspector-General.

LATHING AND PLASTERING AND JOINER WORK AND WOOD FLOORING.

[At Jackson, Tenn.]

OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT,
WASHINGTON, D. C., July 20, 1885.

Sealed proposals will be received at this office until 2 P.M., on the 17th day of August, 1885, for furnishing the materials and executing all the lathing and plastering, and all the joiner work and wood flooring required in the court house, postoffice, etc., building at Jackson, Tenn., in accordance with drawings and specifications, copies of which and any additional information may be obtained on application at this office, or the office of the superintendent.

Bids must be accompanied by a certified check for \$100 for the plaster work, and \$300 for the joiner work.

M. E. BELL, Supervising Architect.

BUILDING BIDS.**LAUNDRY APPARATUS.**

[At St. Louis, Mo.]

Synopsis of bids for laundry apparatus for Marine Hospital, opened July 26, 1885: A. M. Dolph & Co., \$2,177; J. F. Lonagan, \$2,500; N. O. Nelson Manufacturing Co., \$2,750; Troy Laundry Machine Co., \$2,426.25; Empire Laundry Machine Co., \$2,999, \$2,814.

IRON BEAMS.

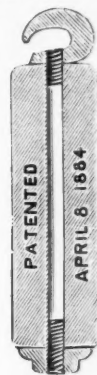
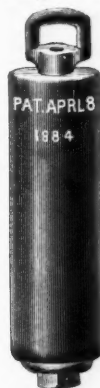
[At Jefferson City, Mo.]

The following is a synopsis of the bids for iron beams, etc., for second, third and attic floors, and iron columns for first and second stories of the court house and postoffice:

Phoenix Iron Co., Trenton, N. J., \$5,750; Clark Raffin & Co., Chicago, Ill., \$5,412; Haugh, Ketcham & Co., Indianapolis, \$5,055.85; Dearborn Foundry Co., \$4,950; Sneed & Co. Iron Works, \$4,874; Marshall Foundry and Construction Co., \$4,575; Aina Iron Works, \$5,494.80; Union Foundry and Pullman Car Wheel Works, \$4,875.

RAYMOND'S COMPRESSED LEAD SASH WEIGHTS

With Wrought and Malleable Iron Fastenings.



(Twice the heft of Iron.—Occupy only Half the Space.)

Solid, Compact, Noiseless.

These weights are made under Hydraulic Pressure, securing a greater *solidity* and *density* of metal, and a smoothness of finish not found in the old style of cast weights. Each weight is centered, making it hang perfectly true and *imb.*

The LINKED WEIGHTS are very convenient for placing in and removing from pockets with small openings, and will be readily appreciated by the trade.

Any Size or Shape made to order on a few hours' notice.

Prices no higher than the cast lead weights.

Special figures will be given on large quantities.

For plate glass windows no other weight should be used.

Manufactured exclusively by

J. N. RAYMOND,

Lead Pipe and Sheet Lead Works, 55 & 57 West Lake St., Chicago, Ill.

Send for Circular and Table of Weights.

Barnes' Pat. Foot and Hand Power Machinery. BUILDERS' SCROLL SAW 15⁰⁰

This machine will pay for itself in two days at prices common with steam power mills for scroll work. We have a complete outfit of machinery suited to builders' use—Hand Circular Rip Saw, Combined Cut-off and Rip Saw, Scroll Saw and Borer, Former, Mortiser, Tenoner, Lathes, Etc. They are labor and money-saving to builders. We sell them with ample time allowed for trial in the shop of the purchaser. You can order them of your dealer in supplies—if not, order direct from our factory. Send for illustrated catalogue free.

W. F. & JOHN BARNES CO., Rockford, Ill.
Address No. 448 Ruby Street.

**COFFIN, DEVOE & CO.**

MANUFACTURERS OF

READY MIXED PAINTS,

Colors, Varnishes and Japans,

Wood Fillers, Finishers and Stains,

Brushes, Artists' Materials and Architects' Supplies.

Architects and Builders will find it to their advantage to recommend F. W. DEVOE & CO'S READY MIXED PAINTS in their Specifications, as they are the most reliable and satisfactory Paints in the market.

SEND FOR SAMPLE LIST OF COLORS OF FIFTY DESIRABLE SHADES.

F. W. DEVOE & CO.,
Cor. Fulton and William Sts., NEW YORK.

COFFIN, DEVOE & CO.
176 Randolph St., CHICAGO.

READERS will please mention the INLAND ARCHITECT AND BUILDER when corresponding with Advertisers.

SUPERIOR COPPER WEATHER VANES

Church Crosses, Tower Ornaments, Finials, Etc.
Gilded with Pure Gold.

THOS. W. JONES, 172 and 172 Front St.
(Near Maiden Lane, New York.)
Successor to Chas. C. Briggs.
Y. W. Baldwin.



Vanes made from any drawing or design on short notice.
Illustrated Catalogue of every possible design mailed
to any address. Mention this paper.

The W. E. FROST M'FG CO.

Manufacturers of

SASH, DOORS, BLINDS,

Stair Building and General Planing Business.

Specialty, Hardwood Flooring of all kinds.

CANAL & 12th Streets, - CHICAGO.

E. D. HODGE.

MASON, BUILDER AND PLASTERER,

CEMENT SIDEWALKS, BASEMENT FLOORS, Etc., a Specialty

Estimates furnished at short notice.

ADDRESS, 151 TWENTY-SECOND STREET.

ARCHITECTS ought to recommend and OWNERS
should use

GROSS' IMPROVED
"DUSTLESS"

ASH RECEIVER AND DUMPER.

ADDRESS

GEO. M. GROSS,
2117 State Street, CHICAGO, ILL.

*** HASKIN'S ***
Lace Curtains,
***** CENTRAL MUSIC HALL.

Please call and examine "Wade's New System of House
Drainage."

J. J. WADE,
PLUMBING

— AND —

HOUSE DRAINAGE.

Adams Express Bldg., 187 DEARBORN ST.,

— 537 W. MADISON ST. —

CHICAGO, - - ILL.

LEAD BURNING AND CHEMICAL WORKS
FITTED UP.

Licensed to lay Iron and Tile Drainage, and Ventilate the
Sewer and Plumbing System of Public and
Private Buildings.

Telephone No. 7077. Box 361 Builders' Exchange.

Architects and Builders are invited to submit plans for
estimates.

HENRY DIBBLEE.

ANSON S. HOPKINS.

TILES

For Halls, Vestibules, Offices, Floors,
Conservatories, Bath Rooms, Etc.

ALSO FOR

Hearths, Wainscotings,
Mantel Splays, &c.

GRATES

Gold, Brass and Iron Grates of every
description.

Fenders, Andirons, Fire Sets,
Coal Hods, Screens, Gas Logs, &c.

Ornamental Metal Work,

Fountains, Vases, Drinking Fountains,
Statuary and Animals,

Stable Fittings, Weather Vanes,
Cresting and Finials,

Railing and Fencing,

Window Guards, &c. &c.

HENRY DIBBLEE & CO.

* WOOD & SLATE MANTELS, *

Tile Fireplaces,

LOW'S ART TILES,

Floor and Ornamental Tiles,

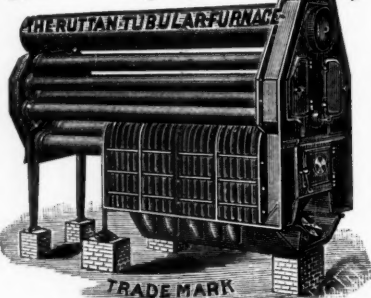
FINE GRATES and BRASS GOODS,

ORNAMENTAL METAL WORK,

266 & 268 WABASH AVENUE,

— CHICAGO. —

RUTTAN.



TRADE MARK
Ruttan System
OF
VENTILATION

Ruttan Manufacturing Co.,

HEATING

AND

Ventilating Engineers,

68 Lake St., Chicago.

We make a specialty of Heating and
Ventilation of Public Buildings, School
Buildings, Churches, Etc. Seventy page
illustrated circular free on application.

Correspondence Solicited.

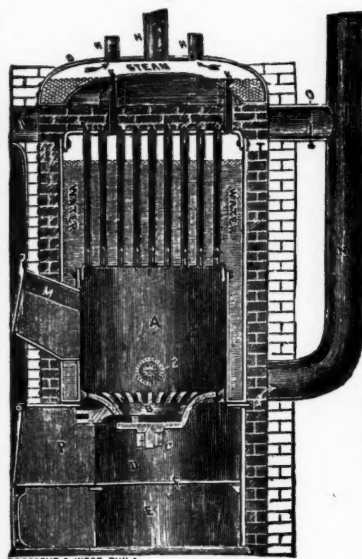
ARCHITECTS are usually gentlemen of taste, with an eye to beauty and effec-
tiveness. Those desiring to avail themselves of these advantages should give a trial
order to

* SHEPARD & JOHNSTON, General Printers,

140 to 146 MONROE ST., CHICAGO.

CARDS, LETTER, NOTE and BILL HEADS and BLANK FORMS A SPECIALTY.

Observe typography of THIS JOURNAL as a fair specimen of their grade of work.



Vertical Sectional View of our Eureka Steam Generator—over 3,000 in use.

PERFECT STEAM HEATING

COMBINING

Elegance, Effectiveness, Durability, Perfect
Ventilation.

—THE—

CINCINNATI STEAM HEATING CO.,
CINCINNATI, OHIO.

Contractors for the heating and ventilation of Public Buildings
and Fine Residences. 24 Sizes Low-Pressure Steam Generators.
Eureka Indirect Radiators. Ornamental Direct Radiators.

CLEVELAND REFERENCES:

S. T. Everett's residence, Euclid Avenue. Geo. W. Stockly's
residence, Euclid Avenue. East Cleveland Baptist Chapel, Euclid
Avenue. Herman Junge's residence, Detroit Street. Herman
Muller's residence, Detroit Street. C. S. Session's residence,
Jennings Avenue. W. R. Munroe's Incubator and Poultry
Establishment, Unionville. None but skilled mechanics employed.
None but strictly first-class work solicited. For Circulars and
information address

The Cincinnati Steam Heating Co.
CINCINNATI, OHIO.

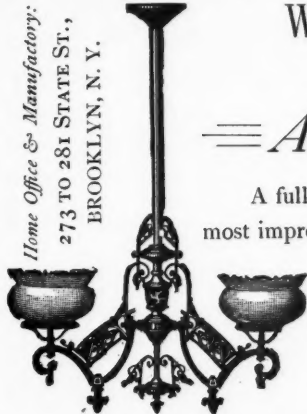
H. E. LIGHT Pres't.

GEO. E. LIGHT, Treas.

GEO. E. DIXON, Con. Engineer.

READERS will please mention the INLAND ARCHITECT AND BUILDER when
corresponding with Advertisers.

Home Office & Manufactory:
273 TO 281 STATE ST.,
BROOKLYN, N. Y.



W. C. VOSBURGH MFG. CO.,

MANUFACTURERS OF AND DEALERS IN

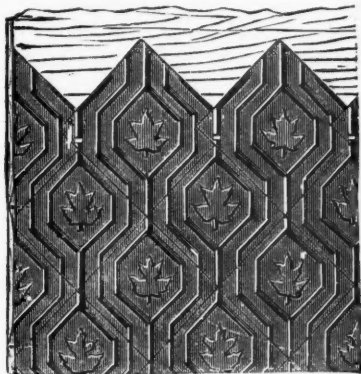
Artistic Gas-Fixtures.

A full stock of fine and desirable goods in the latest and most improved designs, and finished in all the popular colors.

SPECIAL DESIGNS TO ORDER,

WESTERN BRANCH WAREROOMS:

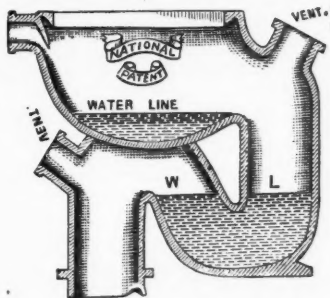
184 AND 186 WABASH AVE., CHICAGO.



BEST ROOF In the World is the Montross Patent METAL SHINGLES

Cheap, Durable, Handsome, and Fireproof.
Warranted Absolutely Water-tight, and
Proof against Storms, Snow, and Ice.
Can be put on by anybody. Adapted
for all Houses and Farm Buildings. Send
for Circulars and Price Lists, free.

E. VAN NOORDEN & CO.
BOSTON, MASS.



NATIONAL SIDE OUTLET CLOSET. (WITH IMPROVED FLUSH REGISTER.)

Its advantages are: SIMPLICITY, CLEANLINESS, EFFICIENCY, CHEAPNESS, forming in itself a COMPLETE WATER-CLOSET BASIN AND TRAP. It has no complicated metal working parts to FOUL or GET OUT OF ORDER, hence its SIMPLICITY and CLEANLINESS are apparent. Its EFFICIENCY is proved by the fact that the DEMAND is continually increasing. Thousands are being sold annually and give the most COMPLETE SATISFACTION. Prices are MUCH LOWER than those of any other first-class closet claiming the same advantages. Where a FRONT OUTLET is preferred to a SIDE OUTLET, a new closet, called the ALLIANCE, on the same principle as the NATIONAL, can be substituted.

Manufacturer, THOMAS TWYFORD, Hanley, Staffordshire, Eng.

SOLE AGENT FOR THE UNITED STATES,

E. ASPINALL,

206 PEARL STREET NEW YORK.

HEMMOOR PORTLAND CEMENT



GERMAN CROWN BRAND

BELLONI & CO.

41 SOUTH STREET NEW YORK CITY

Selected for use in the Pedestal of the Bartholdi Statue,
Cable Roads and other prominent works.

PRIZE MEDALISTS.

Exhibitions of 1862, 1865, 1867, 1872, 1873, and only Award and Medal for Noiseless, Self-Coiling Steel Shutters at Philadelphia, 1876; Paris, 1878; and Melbourne, 1881.

CLARK, BUNNETT & CO. (LIMITED),

LATE CLARK & COMPANY,

Original Inventors and Sole Patentees of

Noiseless, Self-Coiling, Revolving Steel Shutters,

Fire and Burglar Proof. Also, Improved ROLLING WOOD SHUTTERS, and CLARK'S PATENT METALLIC VENETIAN BLINDS.

THE BEST IN THE MARKET. SEND FOR CATALOGUES, Etc., TO
162 and 164 West 27th Street, New York.

NEW DEPARTURE

SPECIFICATIONS

PUBLISHED BY THE

INLAND PUBLISHING CO.



These printed specifications will be ready for issue on the 1st of September, 1885.

Specimen copies mailed to any address in the United States or Canada, postage free, on receipt of twenty-five cents. Address

INLAND PUBLISHING CO.,
19 TRIBUNE BUILDING, CHICAGO.

GARY'S CHAMPION ROOFING,

IN USE HERE 27 YEARS.

Old worn out Gravel, Tin or Iron Roofs coated so as to last TEN YEARS.

Chicago, November, 1883.

We, the undersigned, have used J. M. Gary's Champion Roofing Composition many years, and find it so much superior to the common gravel roof in durability and fire-proof qualities, that we believe we are doing Building Owners, Architects and Insurance men a favor in calling their attention to it, knowing as we do, that it is the best roofing composition for new felt roofs, or recoating, or repairing old roofs, now in use in Chicago.

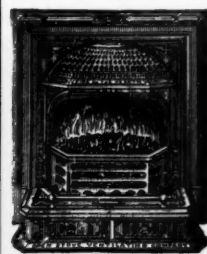
L. C. PAINE FREER,
MATTHEW LAFLIN,
CARTER H. HARRISON,
J. M. WILLIAMS,
GEO. W. NEWCOMB,
DR. J. W. BROOKS,
P. W. GATES,
GEO. H. LAFLIN,
DR. E. INGALLS,
E. L. BRAND,
DR. Z. P. HANSON,
E. BLACKMAN.

PHILO CARPENTER,
DR. JOHN NUTT,
GEO. F. HARDING,
JOHN J. BROWN,
H. C. MIDDAGH,
J. M. ADSIT,
ISAAC MARKS,
J. GUNZENHAUSER,
E. FRANKENTHAL,
J. M. HILL,
J. K. BOTSFORD,
C. E. BROWN.

JOHN M. GARY,

156 La Salle St. CHICAGO.

FIRE ON THE HEARTH.



Stoves, 5 Sizes,
No. 18, New and Elegant
Design.

Air Warming Grates,
Two Sizes.

Fire Place Heaters,
Two Sizes.

Each one combining the
Radiation and Ventilation of
an open fire with the power
and economy of a warm air
furnace; also full line of PAR-
LOR and COOK STOVES,
RANGES, etc.

RAYMOND'S IMPERIAL FURNACE.

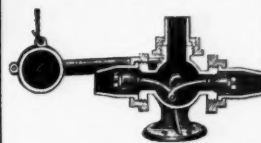
(SIX SIZES)

Send for Price List.

THE RAYMOND FURNACE & MFG. CO.,

76 Beekman Street, NEW YORK.

The Kelly Stop and Waste Cock.



To prevent Water-pipes
from freezing and control
the water supply from any
point in a building, or as a
Self-Closing Hopper Cock,
or Self-Acting Flushing
Apparatus for Water Clo-
sets or Urinals.

Send for Catalogue

Thos. Kelly & Bro.

PLUMBERS,
75 Jackson Street, CHICAGO, ILL.

THE POST OFFICE DEPT

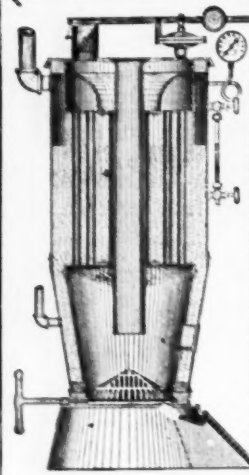
HAS AUTHORIZED THE USE OF THE

CUTLER PAT. MAILING SYSTEM,

As supplied to the New York Produce Exchange,
And the Best Office Buildings in all parts of the United
States. Each story connected with the Mail Box. Silver
Medal, Cincinnati, 1884. In use in U. S. Government
Building, New Orleans Exposition.

CUTLER MFG. CO., Sole Makers,
ROCHESTER, N. Y.

Unparalleled Success The New **AMERICAN Automatic**



Steam Heater.

FOR DWELLINGS, PUBLIC BUILDINGS, RAILWAY STATIONS, OFFICES, &c.

Low Pressure Self Regulating Economical, Cheap, Durable.

UNIFORM HEAT NO GAS DUST, OR SMOKE NO OBJECTIONS.

MANUFACTURED BY

10 BARCLAY ST. NEW YORK

Newell Universal Mill Co.

Send for Illustrated Catalogue

The Best Finish For Wood Floors & BUTCHERS' BOSTON POLISH



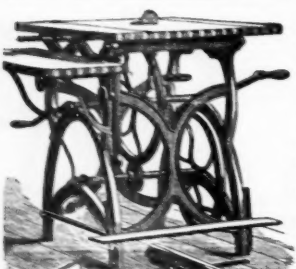
Butcher Polish Co. 171 Tremont St. Boston, Mass.

We gladly furnish information on request.

AGENTS IN LARGE CITIES, AND FOR SALE BY DEALERS IN PAINTERS' SUPPLIES.

North-Western Depot: E. B. MOORE & Co's, 48 Randolph St., CHICAGO.

Marston's Hand & Foot Circular Saw.



A simple, strong and durable machine for actual use.

Weight, 300 lbs. Top measures 28 x 38 inches.

Iron grooves in top for gauges to slide in. Steel shafts and arbor. Cut gears.

Machines on trial.

Send for reduced price list.

J. M. MARSTON, & CO.,

4 APPLETON ST.,

BOSTON, MASS.

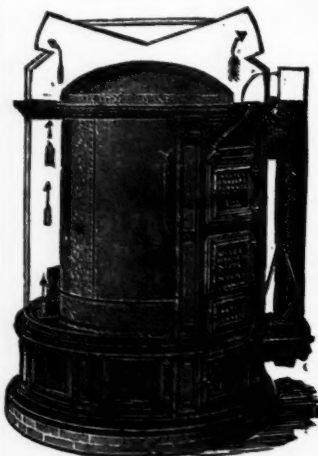
CORRUGATED WIRE LATHING.

An improvement upon flat wire. No stretching and no furring of any kind required. Can be put up by anyone. Gives a continuous key to the plaster. A Perfect Fireproofing for walls, ceilings, partitions, columns and girders. Best support for deafening in use. Manufactured by

The Stanley Corrugated Fireproof Lathing Co., Room 14, 239 BROADWAY, COR. PARK PLACE, N. Y.

Illustrated Circular sent on application.

THE MAGEE FURNACES AND RANGES.



We desire to call the attention of ARCHITECTS, BUILDERS and those contemplating building, to our extensive line of **Furnaces and Ranges**, by far the largest in the country. Estimates furnished and work done in the best manner *at any point desired.*

Illustrated and descriptive circulars sent free on application. All goods of our manufacture warranted to give perfect satisfaction when we superintend erection. None but the choicest materials and most skilled workmen are employed.

The **MAGEE PATENT SINK** is "the greatest sanitary blessing of the age."

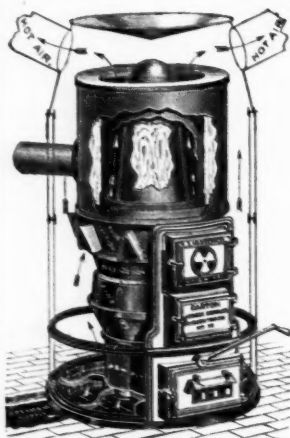
MAGEE FURNACE COMPANY,

BOSTON.

WESTERN BRANCH: 86 Lake Street, CHICAGO.

THE "CARTON"

New Double Cylinder Wrought-Iron Furnace.



The increasing demand for a FIRST-CLASS WROUGHT-IRON FURNACE being so great, we have been compelled to introduce a NEW AND COMPLETE LINE. We have taken into consideration the weak points in those now in the market, which in our NEW DOUBLE CYLINDER we have fully overcome. It contains the DUPLEX GRATE; the Fire-Pots are made of two pieces, which obviates all liability of cracking or breaking from expansion or contraction of heat; the Fine section having covered air catchers makes it a wonderfully STRONG RADIATOR OF HEAT. Most Wrought-Iron Furnaces are made with one Wrought-Iron Cylinder, whereas in the "CARTON" THE CYLINDER IS DOUBLE, with a space between the inner and outer cylinder from two to three inches; besides, there is a Wrought-Iron Cone directly over the fire, MAKING AN EXTRAORDINARY SHARP RADIATING SURFACE, in all giving the "CARTON" about three times the amount of radiating surface of any other Wrought-Iron Furnace in the market. For good, sharp, strong radiating surface the "CARTON" Double Cylinder cannot be surpassed.

Our 56-page Illustrated Catalogue sent free on application, which contains exceptionally good instructions on setting a furnace, giving the size of hot-air pipes and registers to be used in different sized rooms, and an excellent Essay on heat and ventilation well worth reading.

We solicit applications for our catalogue.

Agents wanted in every city.

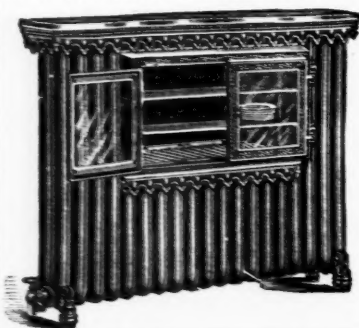
THE CARTON FURNACE CO., Mfrs.,

Office, 32 Fayette Street,

UTICA, N. Y.

The Detroit Steam Radiator Co.'s Improved Patent Cast-Iron Radiators,

FOR HIGH OR LOW PRESSURE.



Superior to all in beauty of design and finish, and efficiency of operation, being so constructed that steam having entered must pass the entire length of each section, securing the most perfect circulation and immediate heating of the whole Radiator. Over one thousand of these Radiators have been used to equip the Great Pullman Building, Adams Express Building, and other fine buildings in Chicago, during the past year. The Dining Room Radiator, with oven or plate warmer (see cut), should find a place in every fine Dining Room. Send for illustrated circular and price list.

DETROIT STEAM RADIATOR CO.,
DETROIT, MICH.

Murdock Curtain Grate.

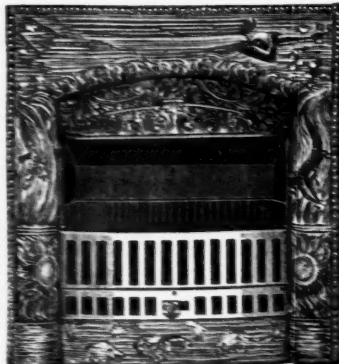
New and artistic; the best working Grate ever offered to the public; easily regulated by damper and draft slide below the bars. Fire can be kept indefinitely. The cut represents the curtain (or blower) partially drawn. Finished in Berlin black, cast brass and bronze metal. Circular sent on application.

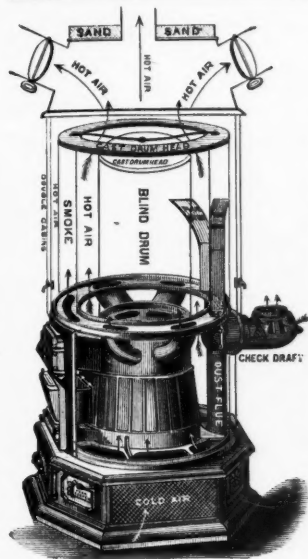
MANUFACTURERS:

MURDOCK PARLOR GRATE CO.,

18 BEACON ST., BOSTON, MASS.

Exclusive Agents for the beautiful TRENT TILE for New England. Gold Medal awarded 1884 by "The Mass. Charitable Mechanics Association."





It is our purpose that everybody shall know of

The Novelty Furnace,

as its economy, prolonged durability, and convenience, together with the cleanliness secured by the dust-flue and the sand-joints, preventing all possibility of the escape of dust, gas or smoke, assures its superiority as a Ventilating Apparatus, which is due to its original, peculiar and superior construction, and arrangement of the heating surfaces to the extent that it exposes a greater space of surface than any of its competitors, all parts of which is economically raised to an even and high temperature for a period of prolonged duration, enabling it to supply a large volume of pure warm air constantly, an evidence of

ITS IMMENSE POWER

derived from one center drum, directly over the fire filled with reflected heat, surrounded by an outer drum, with an air-space between the outer drum receiving the ignited gases and products of combustion from the fire through hollow arms leading into the bottom of the drum which are made to heat thoroughly the entire surface by an inverted partition, deflecting them toward the front, where they rise and pass over the partition and out, securing a result that is appreciated by the people everywhere, as the following testimonial will show:

G. WAGNER, ESQ.:

DEAR SIR,—Having used one of the 40-inch Novelty Furnaces in my house, containing ten large rooms, since November 7th till date, I wish to give the same my best indorsement and strongest recommendation. I truly believe the Novelty Furnace will produce more heat with less fuel than any furnace made, and positively more than any furnace I have ever seen.

Very respectfully yours,

H. L. MARSHALL, 1029 Adams Street.

Mr. E. BLAIR:

DEAR SIR,—I have been using a No. 36 Novelty Furnace in my house the past winter, and have heated six rooms and a hall, with ten-foot ceilings, using seven and a half tons of coal. During the winter the thermometer has stood as low as 25 degrees below zero, and during the month of March reached zero nearly every day. I kept a continuous fire through the winter, not being troubled with clinkers. I have five pipes leading from the furnace, supplying eight registers with pure, warm air entirely free from gas and dust. I take the cold air from the cellar in the following way: A cold-air tube, connecting with a window that opens out of doors, leads to about three feet from the furnace, throwing out the cold air to be taken by the furnace as required. With my experience during this extremely cold winter I am perfectly satisfied, and would recommend the Novelty always,

Yours, &c.,

H. S. BLAIR.

ABRAM COX STOVE CO., Manufacturers,
PHILADELPHIA AND CHICAGO.

Send for descriptive pamphlet.

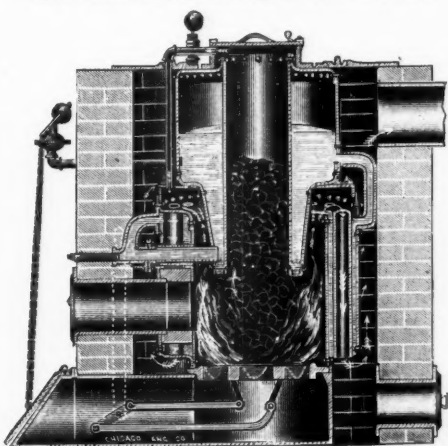
STEAM WARMING

AND

VENTILATING APPARATUS.

SIMPLIFIED AND ADAPTED TO WARMING RESIDENCES, PUBLIC AND PRIVATE BUILDINGS, CHURCHES, ETC.

Descriptive Pamphlets on Application.



CHAMPION SELF-FEEDING BOILER,

ALSO

HOT WATER APPARATUS

FOR WARMING GREENHOUSES, CONSERVATORIES, ETC.

BAKER, SMITH & CO.,

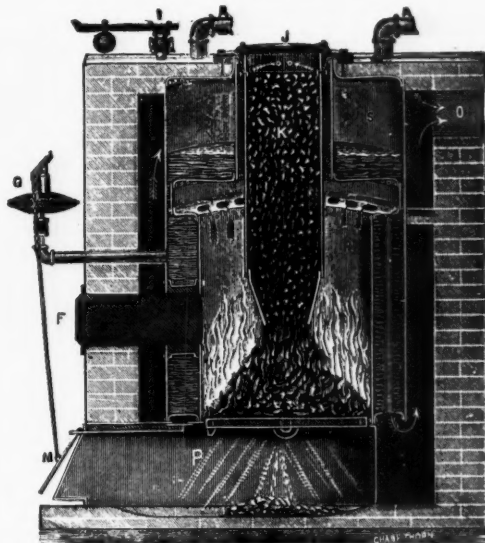
81 & 83 Jackson St.

CHICAGO, ILL.

THE DUNNING BOILER,

Self-Feeding and Regulating,

OVER 2,500 IN USE.



Requires much less attention than a furnace.

Unexcelled for heating residences.

MANUFACTURED BY

N. Y. CENTRAL IRON WORKS, GENEVA, N. Y.

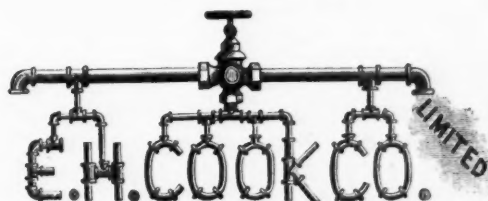
—AND—

HAY & PRENTICE CO., CHICAGO, ILL.

Send for Pamphlet and mention this paper.

BLAIR, DUNLOP & HOPKINS,

SUCCESSORS TO



STEAM AND HOT WATER.

WARMING AND VENTILATING.

ENGINEERS AND CONTRACTORS.

35 & 37 South Canal Street,

Corner Washington

CHICAGO.

TOMLINSON & REED*QUARRYMEN*

And Dealers in

OOLITIC LIMESTONE

QUARRIES AT AVOCA,

Near Bedford, Ind.

Branch Office, *POLK & ELLSWORTH STS.*

— CHICAGO. —

THE IRWIN & REBER

PATENT

EXPANDING WATER CONDUCTOR.

MANUFACTURED BY THE

S. S. S. Conductor Co.

LIMITED,

163 Lacock Street,
ALLEGHENY, PA.

THE STANDING SEAM allows of an easy and secure fastening, keeping the pipe far enough from the wall to make any overflow from the eave pipe or head, run down the spout, and not the wall; and will open, in case of freezing, so as to prevent bursting, and still remain double-locked and water-tight.



MADE IN

SIX FOOT LENGTHS

of a Single Sheet of

SOFT STEEL.

Either Galvanized, Kalameined or Leaded.

AGENTS:

W. B. WHITE, - CHICAGO, ILL.

R. E. DEWEY & CO., " "

GEO. ROTHAGE & CO., " "

GENDER & PAESCHKE MFG. CO.,
MILWAUKEE, WIS.WEBSTER & MEATHE,
DETROIT, MICH.

J. D. CANDLER & CO., " "

MEACHAM & WRIGHT,

MANUFACTURERS' AGENTS FOR

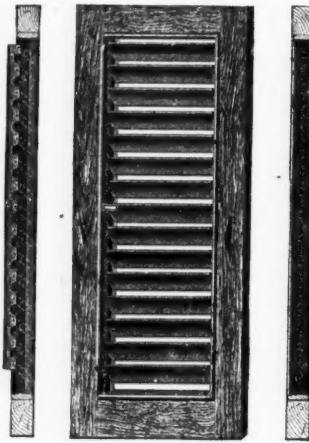
*UTICA AND LOUISVILLE***HYDRAULIC CEMENTS**

AND DEALERS IN

*Lime, Michigan and New York Stucco
and Portland Cement,*

98 MARKET ST., CHICAGO.

TELEPHONE 434.

**ACME WINDOW BLIND.**

PATENTED.

An Invention of great importance to Architects,
Builders, House Owners, and Sash and
Blind Makers Generally.

The attention is respectfully invited to the improved window blind illustrated in the engraving. The slats are operated by a movable bead at one end, thus doing away with the center rod, which is unsightly and liable to get out of order. The pins or pivots of the slats are of metal. The slats always roll smoothly and remain in any position. These blinds are indorsed by the leading architects as the ONLY COMPLETE AND RELIABLE INSIDE BLIND MANUFACTURED. They have been placed in the residences of Wm. H. Vanderbilt, Esq., Wm. K. Vanderbilt, Esq., Hon. Pierpont Morgan, Robert Golet, Esq., Ogden Golet, Esq., Heble R. Bishop, Esq., Knickerbocker Apartment Building, Hoffmann House and many other modern and first-class buildings.

For orders for blinds, applications for rights to manufacture and all information, address

MORSTATT & KLATZL,

PATENTEES & MANUFACTURERS,

227 & 229 W. 29th Street, NEW YORK.

Send for Descriptive Circular.

Mention this Paper.

FROST & ADAMS,

37 CORNHILL, BOSTON,

Draughting Instruments,

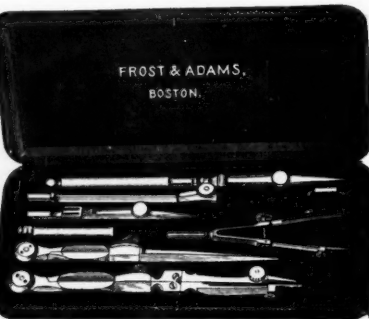
AND

Supplies for Architects,

Engineers and Draughtsmen.

—AGENTS FOR—

*Abbott's Practical Ellipsograph and
Levy's Blue-Process Paper.*



COPIES TAKEN BY THE LEVY BLUE COPYING PROCESS.

AN EXAMINATION OF OUR CATALOGUES IS SOLICITED.

F. S. FROST.

H. A. LAWRENCE.

WARMING AND VENTILATION**A PERFECT SUCCESS BY OUR APPARATUS.**

24 Sizes Low Pressure Generators.

PRETTIEST DIRECT RADIATION.

Largest Manufacturers of Indirect
and Window Radiation.

LIGHT'S PATENTS,

The Most Popular with the Trade.

Descriptive and Trade Circulars on Appli-
cation.

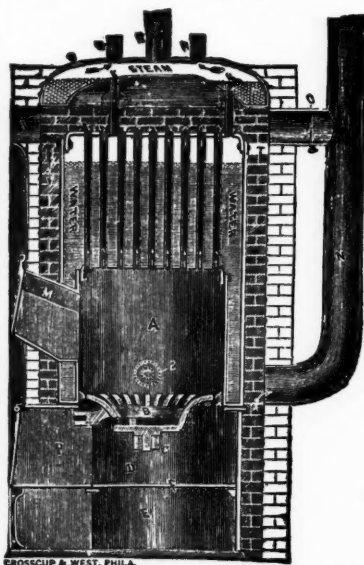
Plans and Estimates by a Skilled Engineer.

EUREKA STEAM HEATING CO.

202 STATE ST., ROCHESTER, N. Y.

Our Sales from year to year have doubled with good
satisfaction everywhere.

SEND FOR CIRCULARS.



CROSSCUP & WEST, PHILA.

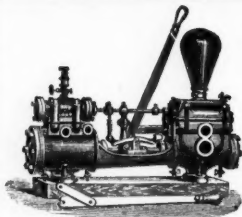
KNOWLES' STEAM PUMP WORKS

44 WASHINGTON ST.,

BOSTON.

93 LIBERTY ST.,

NEW YORK.



Make a Specialty of Pumping Machinery for Public and
Private Buildings, for use in connection with
Elevators, Water Tanks, Etc.

Correspondence Solicited.

GERSTENDORFER BROS.

Manufacturers and Importers of

BRONZE POWDER,
GOLD, SILVER,
and METAL LEAF,

Artists and Varnish Brushes,

Also the Celebrated

: : "Our Favorite" : :

Fluid Gold & Gold Paint.

14 Dey St., 67 Lake St.,
NEW YORK. CHICAGO, ILL.

FACTORIES:

Fuerth, Velden, Simmelsdorf and
Rauhenstein in Bavaria, Germ.

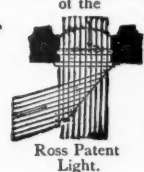


SIDEWALK
-AND-
Vault

Sole Manufacturers
of the

FLOOR and ROOF
LIGHTS.

DAUCHY & CO.
125 and 127 Indiana St. (near Wells),
CHICAGO, ILL.

Ross Patent
Light.

J. C. MCFARLAND,
GALVANIZED

IRON CORNICES,

Etc. Etc.

Slate, Tin & Corrugated Iron Roofer.

Skylights, Conservatories and other Glazed Work, using
Ventilating Galvanized Iron Gutter Bars.

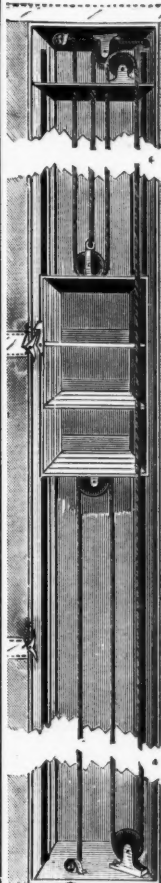
JOBGING IN SHEET METAL.

Contracts taken in any part of the United States. Slate fur-
nished to trade in any quantity at the lowest market price.

AGENT FOR

Austin's Patent Expanding Conductor.

219 AND 221 WEST LAKE STREET,
CHICAGO.



SWEZEY'S

IMPROVED

DUMB-WAITER,

FOR DWELLINGS,

With Automatic Catch.

For Any Size of Shaft.

GUARANTEED

FOR ONE YEAR.

M. B. SWEZEY,

No. 120 20th Street,

CHICAGO, ILL.

REFERENCES:

ARCHITECTS.

John Addison. Treat & Foltz.
L. B. Dixon. C. P. Thomas.
H. S. Jaffray. T. V. Wadskier.
C. A. Alexander. Silsby & Kent.
Wheelock & Clay. J. J. Flanders.
Cobb & Frost. Aug. Feidler.
H. T. Kley. Adler & Sullivan.
Baur & Hill. S. S. Beemen.
W. L. B. Jenney. P. W. Anderson.
A. M. F. Colton. W. A. Furber.
John N. Tilton. Otto Matz.
Holabird & Roche. C. C. Miller.
Francis Charnley.
Edbrook & Burnham.
Cass Chapman.
H. L. Gay.

BOOKS

AT REDUCED PRICES.

Detail Cottage and Constructive Archi-
tecture. Reduced from.....\$10.00 to \$6.00
Cottages and Villa Architecture. Re-
duced from.....6.00 to 4.00
Street, Store, and Bank Fronts. Re-
duced to.....2.50
Public Buildings. Reduced to.....2.50
School House and Church Architecture.
Reduced to.....2.50

INLAND PUBLISHING CO., Chicago.

E. B. MOORE & CO.,

SOLE AGENTS FOR

Patent PARQUETRY Flooring,



Wainscoting, etc., and Agents
for Wood Carpet, Fancy Bor-
ders, and Inlaid Hardwood
Floors, Butchers' Boston Pol-
ish. Rooms Measured, Dia-
grams made and Estimates
given. Send stamp for book
of Designs.

48 Randolph Street,
CHICAGO.

The Largest of the kind in the world.

THE HOOSIER STONE CO.,

WHOLESALE DEALERS IN

Buff and Blue Bedford Limestone,
BEDFORD, - INDIANA.

JOHN S. F. BATCHEN, AGENT, 454 Fifth Ave., Chicago.

SEWER

FIRE BRICK
AND
FIRE CLAY.

RHOADS & RAMSEY,

107 LA SALLE ST.
(Chamber of Commerce.)
Yards—89 N. Elizabeth Street.
35th Street & L. S. & M. S. R. R.

PIPE

ESTABLISHED 1816

WM. STRUTHERS & SONS,

CONTRACTORS OF THE

Marble Work for the New
City Hall, Philadelphia.

Office, No. 2 So. Merrick St. Works, 24th and Walnut Sts.

AGENTS FOR THE
CAEN & AUBIGNY STONE QUARRIES, FRANCE.

PHILADELPHIA.

PEERLESS BLACK FOR MORTAR.

Red, White, Brown and Buff are Specialties. All Colors
Permanent and Superior to any article now in use.

PREPARED ONLY BY

SAMUEL H. FRENCH & CO.,

PAINT MANUFACTURERS,

IMPORTERS, DEALERS AND MANUFACTURERS OF

PAINTERS' AND BUILDERS' SUPPLIES.

YORK AVE., FOURTH & CALLOWHILL STS.,

Send for Circulars and Catalogue.

PHILADELPHIA



THE GREAT CHURCH LIGHT.

FRINK'S PATENT REFLECTORS give the Most Powerful, the Softest,
Cheapest, and the Best Light known for Churches, Stores, Show Windows,
Parlors, Banks, Offices, Picture Galleries, Theaters, Depots, etc. New and
elegant designs. Send size of room. Get circular and estimate. A liberal dis-
count to churches and the trade. I. P. FRINK, 551 Pearl St., New York.



FOR

INSIDE

FINISH.

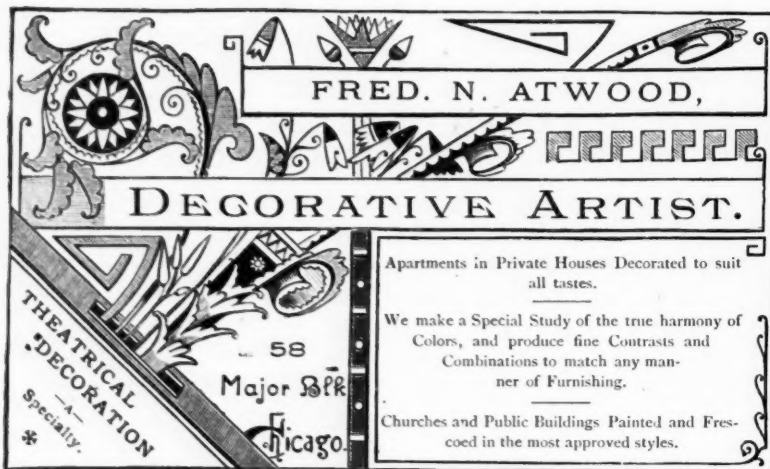
USE

DE GOLYER'S HARD OIL FINISH.

WHITE,

LIGHT,

MEDIUM.



FRED. N. ATWOOD,
DECORATIVE ARTIST.

Apartments in Private Houses Decorated to suit
all tastes.

We make a Special Study of the true harmony of
Colors, and produce fine Contrasts and
Combinations to match any man-
ner of Furnishing.

Churches and Public Buildings Painted and Fres-
coed in the most approved styles.

58
Major Stk
Chicago

THEATRICAL
DECORATION
Specialty.

E. P. Wilce & Co.
MANUFACTURERS OF
Doors, Sash and Blinds,
MOULDINGS, FRAMES,
TURNINGS, Etc.,
Every description (in Hardwood or Pine) of
STAIR WORK
and **INTERIOR FINISH,**
HARDWOOD FLOORING,
KILN DRIED, of which we keep a large assort-
ment constantly on hand, such as MAPLE, RED
OAK, WHITE OAK (plain or quarter sawed),
RED and BLACK BIRCH, YELLOW PINE,
ASH, WALNUT, etc., etc.

Estimates Furnished on Application.

OFFICE AND FACTORY:
COR. 22nd AND THROOP STREETS.

INDEX TO ADVERTISEMENTS.

Air Bells. Zimdar's.....	Page VII	Fire Escapes. Renner & Co.....	Page XIV	Mathematical Instruments. Frost & Adams.....	Page XXIV	Sidewalk and Vault Lights. Brown Bros.....	Page XXVIII
Architectural Books. Comstock, W. T.....	XI	Fireproofing. Fireproof Building Co.....	VIII	Metallic Centerpieces. Warren Bros.....	XII	Skylights, Conservatories, Etc. Kniskely & Miller.....	XII
Architectural Ironworks. Etna Iron Works.....	XXVII	Haydenville Mining & Mfg. Co.....	VI	Metal Shingles and Roofing. Anglo-American Roofing Co.....	VIII	Slate and Metal Roofing. Hughes, R.....	XXVIII
Benner & Co., Ironworks.....	XIV	Pioneer Fireproof Construction Co.....	VII	Cincinnati Corrugating Co.....	XIII	Steam Pump Works. Davis, John & Co.....	IX
Globe Iron Works.....	VII	Wight Fireproofing Co.....	I	Merchant & Co.....	XXIV	Knowles Steam Pump Works.....	XXIII
Hecla Bronze and Iron Works.....	III		VI	National Sheet Metal Roofing Co.....	VII	Geo. F. Blake Mfg. Co.....	XXIII
Union Foundry and Pullman Car Wheel Works.....	XXVIII	Footpower Machinery. W. F. & Jno. Barnes Co.....	XIX	Van Noorden, E.....	XXI	Wheeler & Tappan.....	IX
Architectural Views. Taylor, J. W.....	I	Furniture. Andrews, A. H. & Co.....	XXVIII	Oolitic Stone. Salem Stone and Lime Co.....	II	Stone. Hoosier Stone Co.....	XXV
Asbestos. Asbestos Packing Co.....	VI	Furnaces, Ranges, Etc. Abram Cox Stove Co.....	XXIII	Ornamental Centers. Bartolomei, J. & Co.....	XII	Long Meadow Brownstone.....	XXVII
Asphalt. Seyssel Rock Asphalt.....	I	Boynston Furnace Co.....	XVII	Kellett, W. F.....	XIII	Tomlinson & Reed.....	XXIV
Brick Preserving Process. Hunt, Theo.....	XXVIII	Carton Furnace Co.....	XXII	Poli, Peter E.....	XII	Yeung & Farrell Co.....	IX
Bricks (Pressed). Chicago Anderson Pressed Brick Co.....	XVI	Magee Furnace Co.....	XXII	Warren Bros.....	XII	Stained Glass. Decorative Glass Mfg. Co.....	X
Harris Bros. (Abbot & Wright, agents).....	V	Raymond Furnace Mfg. Co.....	XXIII	Paints, Oils and Varnishes. Coffin, Devoc & Co.....	XIX	French Silvering and Ornament- al Glass Co.....	X
Wm. E. Hinchcliff & Co.....	XXX	Richardson & Boynton Co.....	V	Gerstendorfer Bros.....	XXV	Healy & Millet.....	X
Hydraulic Press Brick Co.....	XIX	Grates. Jackson, Edw. A. & Bro.....	72	Pipe and Boiler Covering. Kelly Scroll Section Mfg. Co.....	XXX	Kinsella, F. D. & Co.....	X
Lockwood & Kimbell.....	XXIX	Murdock Parlor Grate Co.....	XXII	Planing Mill. Russell, J. K.....	XXVII	Lamb, J. & R.....	X
Peerless Pressed Brick Co.....	XXIII	Perkins, Wm. L. & Co.....	X	Plumbers. Beaver, Hughes & Wetmore Co.....	VIII	McCully & Miles.....	X
Tiffany Pressed Brick Co.....	V	Gas Fixtures. Anchor & Hancock Mfg. Co.....	XXX	Wade, J. J.....	XX	Misch, G. A.....	X
Bids. Building, etc.....	XIX	Beaver, Hughes & Wetmore Co.....	VIII	Plumbing Supplies. Aspinall, E.....	XXI	Wells, W. H. & Bro. Co.....	X
Builders' Hardware. Kellogg, Johnson & Bliss.....	IV	W. C. Vosburg Mfg. Co.....	XXI	Bowler Sewer Gas Trap.....	VII	Steam Heating. Baker, Smith & Co.....	XXX
Sargent, Greenleaf & Brooks.....	IV	Gas Machines. Penna Globe Gas Light Co.....	VII	Cadell, F. E.....	VII	Cincinnati Steam Heat Co.....	XX
Builders' Sundries. Dibble Mfg. Co.....	XXIII	Galvanized Iron Works. McFarland, J. C.....	VII	Kelly, Thos. & Bro.....	XXI	Cook, E. H. & Co.....	XXII
Mendenhall, L.....	XII	Kniskely & Miller.....	XII	Meyer-Sniffen Co.....	I	Eureka Steam Heat Co.....	XXIV
Novelty Lock Co.....	XXVIII	Rothage, Geo. & Co.....	XXVII	Powell, Wm. & Co.....	XI	Hay & Prentice.....	XXIII
Scranton Mfg. Co.....	XXIV	Mesker & Co.....	XII	Prices. Labor.....	XIV	John Davis & Co.....	IX
Building Contractors. Hodge, E. D. & Co.....	XX	Glass (Plate). Chrystal Plate Glass Co.....	X	Material.....	XIV	Le Bosquet Bros.....	XI
McLean, J. R., Sr.....	XXI	Kimball, Geo. F.....	X	Proposals. Building, etc.....	XIX	Newell Universal Mill Co.....	XXII
Cements. Belloni & Co.....	XX	Granites. St. John, M. H.....	XI	Printers. Shepard & Johnston.....	XX	Terra-Cotta. Northwestern Terra-Cotta Wks. Perth Amboy Terra-Cotta Co.....	I VI
Fleming, Howard.....	III	Hallowell & Bodwell Co's.....	XVI	Radiators. Detroit Radiator Co.....	XX	Boston Architectural Terra-Cot- ta Works.....	XII
Meacham & Wright.....	XXIV	Heating and Ventilating Apparatus. Raymond Furnace & Mfg. Co.....	XXI	The A. A. Griffing Ironworks.....	XXX	Boston Terra-Cotta Co.....	XII
"Star" Portland Cement Wks.....	XXVI	Ruttan Mfg. Co.....	XX	The H. B. Smith Co.....	XXIX	Tiling. Abbot & Wright (agents).....	V
Thiele, E.....	XII	Insurance (Life). The Mutual Benefit, of Newark.....	XXIX	Real Estate. Baird & Bradley.....	III	Dibblee, Henry & Co.....	XX
Coloring for Mortar. Curtis, J. D. (red).....	XIX	Interior Decorators and Furnishers. Haskins.....	XX	Mead & Coe.....	III	Innes & Co.....	XII
Dupree, H. D. (black).....	XI	Interior Finish. Meyer, C. J. L. & Son.....	XVII	Reflectors. Frink, I. P.....	XXV	Producers' Marble Co.....	X
French, S. H. & Co. (black).....	XXV	Tomlinson & Carsley.....	VIII	Roofers and Roofing Material. American Asphalt, Concrete and Roofing Works.....	VII	The United States Encaustic Tile Co.....	XXVII
Decoration. Atwood, F. N.....	XXVI	Iron and Stone Setters. McBeath & Rowe.....	VIII	Cincinnati Corrugating Co.....	XXVII	Varnishes. DeGolyer's.....	XXV
Kluge, A.....	I	Laundry Machinery. Gordon, G. W.....	XI	Conner, Chas. H.....	X	Ventilators, Etc. American Ventilator Co.....	IX
Decorative Artists. Almini, P. M.....	II	Troy Laundry Machine Co.....	XI	Cary, John M.....	XXI	Van Noorden, E. & Co.....	XXVI
Atwood, F. N.....	XXVI	Locks. Novelty Lock Co.....	XXVIII	Gormully, R. Philip.....	XXVII	Water Conductor. S. S. S Conductor Co.....	XXIV
Sullivan, J. B. & Bro.....	II	Yale & Towne Mfg. Co.....	XIV	Hawkes, Thos.....	VIII	Weather Vanes. Jones, Thomas W.....	XX
Kluge, Alex.....	I	Lumber. Hayden Bros.....	III	Kniskely & Miller.....	XII	Window Blind. Morstatt & Klatzki.....	XX
Door Hangers. Cohoes Iron Foundry & Ma- chine Co.....	XXVIII	Mailing System. Cutler Mfg. Co.....	XXI	Merchant & Co.....	XXVII	Window Decoration. McCaw, Stevenson & Orr.....	VIII
Scranton Mfg. Co.....	XXVIII	Mantels, Grates, Etc. Andrews, A. H. & Co.....	XXVIII	National Sheet Metal Roofing Co.....	VII	Wire and Iron Works. Dibblee, Henry & Co.....	XX
Dumb Waiters. Sweeney, M. B.....	XXV	Dibblee, Henry & Co.....	XX	Wyatt, W. E. & Co.....	XI	The F. J. Myers Mfg. Co.....	XI
Drawing Material and Implements. Abbot, A. H. & Co.....	XI	Innes & Co.....	XII	Sash Cord and Chains. Tolman, J. P. & Co.....	XI	Wire Lathing. The Stanley Corrugated Fire- proof Lath Co.....	XXII
Frost & Adams.....	XXIV	Meyer, C. J. L. & Co.....	XVII	Morton, Thos.....	IX	Wood Carpet. Moore, E. B. & Co.....	XXV
Hinstorff, Gustav.....	I	Murdock Parlor Grate Co.....	XXI	Sash, Doors, and Blinds. Russell, J. K. & Co.....	X	Wood Mantels. Andrews, A. H. & Co.....	XII
Wadsworth, Howland & Co.....	XI	Perkins, Wm. L. & Co.....	IX	W. E. Frost Mfg. Co.....	XX	Dibblee, Henry & Co.....	XX
Educational. Cornell University.....	IX	Riley, A. A.....	I	Wilce, E. P. & Co.....	XXVII	Meyer, C. J. L. & Co.....	XXVII
Electric Lights. The U. S. Electric Lighting Co.....	II	Manufacturers' Agents. Mendenhall, Laurence.....	XII	Sash Weights. Raymond, J. N.....	XIX	Wood Ornaments. Gleason Wood Ornament Co.....	XI
Western Edison Light Co.....	III	Marble Tiles, Etc. Producers Marble Co.....	IX	Sash Lock. Kallstrom, A.....	XVII	Wrought-Iron Fences. The Fred J. Meyers Mfg. Co.....	XI
Electric Supplies. Western Electric Co.....	XXVII	Marble Work. Struthers, Wm. & Co.....	XXV	Sanitary Appliances. Adee, Fred., & Co.....	XV	Hollingshead, C. F.....	IX
Elevators. Crane Bros. Mfg. Co.....	XXX	Masonry Hodge, E. D.....	XX	Sanitary Expert. Wm. Paul.....	XIX		
				Sewer Pipe. Rhodes & Ramsey.....	XXV		
				Haydenville Mining & Mfg. Co.....	VI		

WESTERN ELECTRIC CO.*CHICAGO,**NEW YORK,**BOSTON,*ELECTRIC CALL BELLS; HOTEL ANNUNCIATORS;
HOTEL FIRE ALARMS.*Electric Gas Lighting for Private Residences a
Specialty.*

BURGLAR ALARMS,

ELECTRIC LIGHTS.

SEND FOR CATALOGUE.

J. K. RUSSELL,

82 to 96 Fulton Street,

PLANING MILL.Hardwood Flooring, Wide Re-Sawing, Mold-
ings, Kiln Drying, Specialty.*SIZING JOIST WITH PLANER AND PLANING
TIMBER.***Clover Leaf Ventilators**

AND

CHIMNEY CAPS!For ventilating PUBLIC
AND PRIVATE BUILD-
INGS, RAILROAD CARS,
SOIL PIPES, WATER-
CLOSETS, etc.**SURE CURE**

FOR

Smoky Chimneys

MADE AND SOLD BY

**E. Van Noorden
& Co.,**387 Harrison Avenue,
BOSTON, MASS.Working Models mailed to any address in the U. S.
on receipt of 20 cents.AGENCIES:—M. M. MURPHY & Co., Cleveland, Ohio;
JAS. B. SCOTT & Co., Pittsburgh, Pa.; DETROIT LEAD
PIPE AND SHEET LEAD WORKS, Detroit, Mich.; A. MOLLO,
87 Royal St., New Orleans, La.; REUTER & MALLORY,
Baltimore, Md.; PIERCE, BUTLER & PIERCE, Syracuse,
N. Y.; STAMMACH & LOVE, Philadelphia.**WANTED!**

COPIES OF

The Inland Architect and Builder,*Of September and October, 1883.*We will pay **TWENTY-FIVE CENTS** per copy

for above numbers.

INLAND PUBLISHING CO.,

19 Tribune Building,
CHICAGO.**Evanston, Ill., Building,****J. R. McLEAN, SR.,***Builder and Superintendent,*

EVANSTON, ILL.

ALL DESCRIPTIONS OF SPECIAL MILL WORK
TO ORDER.**Guaranteed Roofing Plates.****GILBERTSON'S OLD METHOD.**We guarantee *Gilbertson's Old Method* to be an extra coated
plate, and to contain **36 lbs.** of metal to a box of IC 20 x 28 and **18 lbs.**
to IC 14 x 20.To be a heavier coated plate than M. F., or Old Style, and if not found
so, all boxes to be held subject to our order.

That the quality of material is equal to any plate ever made.

That our prices are lower than the fancy prices heretofore demanded
for extra coated plates.**CAMARET ROOFING.**Guaranteed to stand any test in bending. Can be hammered down
and flat again without breaking.Every sheet in a box to be well coated, well selected, and great atten-
tion given to squaring sheets.To be coated with Palm Oil that will keep it from rusting longer, if
not painted, than ordinary plates.Our prices are very low for this splendid plate, so any one desiring
can use a first class plate at a moderate price.

Write for Prices.

Order a Sample Box.

MERCHANT & CO.,

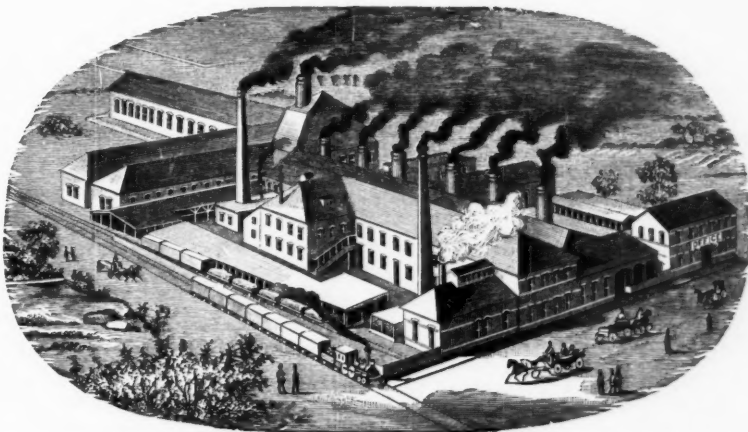
525 Arch St., PHILADELPHIA.

90 Beekman St., NEW YORK.

THE LARGEST AND MOST COMPLETE TILE WORKS IN THE WORLD.

THE UNITED STATES ENCAUSTIC TILE COMPANY,

INDIANAPOLIS, IND.,

is prepared to furnish Dealers, Architects and Builders with **PLAIN and ENCAUSTIC TILES** for laying floors in
Public Buildings and Private Residences. We also manufacture an elegant line of **HIGH ART MAJOLICA TILES**
for Mantel Facings, Friezes, Furniture, etc. Also, **GLAZED and ENAMELED TILES**, for Hearths, Wain-
scoting and Interior Decoration. Designs, Estimates and Sample Sheets furnished on application.

NORTHWESTERN AGENCY,

11 ADAMS ST., CHICAGO.

J. L. MOTHERSHEAD,

RECEIVER U. S. ENCAUSTIC TILE CO.

READERS will please mention the *INLAND ARCHITECT AND BUILDER* when
corresponding with Advertisers.

NOVELTY LOCK CO.

CHICAGO, ILL., U. S. A.

Manufacture the practical, improved and perfected

DOOR KNOB,

"Bolted on Solid," secured to the door by long screws entering above and below lock mortise.

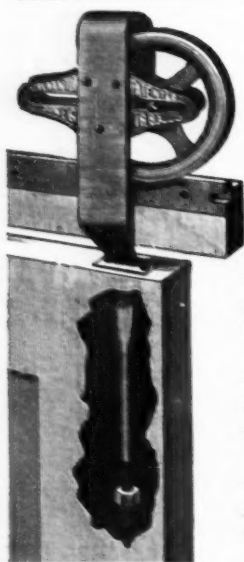
Permanent display at Exhibit of Building Materials, Chicago

ANNOUNCEMENT.

Property Owners planning to build, Architects, Contractors, Carpenters and enterprising hardware dealers, write for new Illustrated Price List. A Sample Knob and Lock on hand-block, or a pair of knobs and lock for use on office or shop door, will be sent complimentary, when a trial is desired.

Address,
NOVELTY LOCK CO.,
CHICAGO, ILL., U. S. A.

OFFICE: 15 N. Clinton St.



THE SCRANTON ANTI-FRICTION STEEL PARLOR DOOR HANGERS

are the simplest, cheapest to hang, easiest to adjust, and lowest in price. Sold by principal dealers.

Catalogue on application. SCRANTON MFG. Co., 68 to 74 W. Monroe St., Chicago.

On exhibition at rooms of Permanent Exhibit and Exchange of Building Materials.

TRADE  MARK.

The "Star" Portland Cement Works,

Toeffer, Grawitz & Co., Stettin, Germany,

ESTABLISHED 1860,

Guarantee their entire production (about 240,000 barrels a year) to have the following *Minimum Tensile Strength*, if tested according to the official German regulations, on non-absorptive beds:

	Minimum Breaking Strain.		
	Days' test.	Per sq. centimetre	Per Eng. sq. in.
Neat "Star" Cement,	7	40 kilos.	568.9 lbs
do	28	50 "	711.1 "
1 Cement and 3 Standard Sand	7	15 "	213.3 "
do	28	20 "	284.4 "
1 Cement and 6 Standard Sand	7	6 "	85.3 "
do	28	10 "	142.2 "

Send for Testimonials, Pamphlet, Directions for Testing, etc.

GUSTAV GRAWITZ, 165 Broadway, N. Y.,
Sole Agent in the U. S.

R. HUGHES,

SLATE AND METAL ROOFING,
Galvanized Iron Cornices, Skylights, etc.
Contracts taken in any part of the country.

95 WEST WASHINGTON ST., CHICAGO, ILL.

CLARK'S ISLAND GRANITE— —QUARRIES and WORKS of

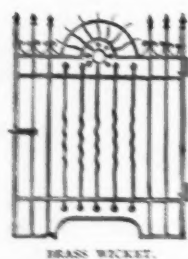
CLARK'S ISLAND, MAINE,

Dealer in MONUMENTAL, VAULT and BUILDING WORK.

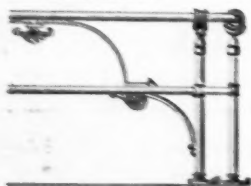
Every facility for finest work in Granite, Perfection in Polish, Statuary and Designs. Also Dealer in Dimension Granite, unequalled in Quality and Beauty. Estimates promptly given.

M. H. ST. JOHN, Proprietor

Offices, 83 & 84 Astor House, - NEW YORK.



BRASS WICKET.



BRASS RAIL.

A. H. ANDREWS & CO.

CHICAGO and NEW YORK.

MANUFACTURERS OF

Fine Brass Work

AND

Hard Wood Fittings

FOR

Public Buildings, Offices
and Banks.

Special Designs in Brass Gates, Railings,
Wire Screens, etc., in Bronze, Gold or
Nickel-Plate Iron Screens.

PROCESS FOR

Preserving Brick and Stone Walls.

This Process, a success in New York, St. Louis and wherever else used, makes

BRICK AND STONE WORK

PERMANENTLY NON-ABSORBENT

Without changing its appearance; prevents weather staining, disintegrating of stone and mortar joints, collection of white efflorescence, fungoid growth, and all other injurious effects and frost; prevents damp walls.

Covered by Four Patents, under which rights in unsold territory are to be had by applying to

THEODORE HUNT,
ST. LOUIS, MO.

THE MUTUAL BENEFIT Life Insurance Company, Of NEWARK, N. J.

AMZI DODD, President.

Paid Policyholders since organization in 1845, \$83,672,056.53.

In a Mutual Life Insurance Company every dollar saved in expenses is a dollar added to dividends, and a dollar saved in the actual cost of insurance. *The Mutual Benefit Life Insurance Company* is conspicuous for its economical management, for the magnitude of its Dividends, for the liberality of its Policy Contract, and for its fair dealing with its members. No Policy can be forfeited after the second year as long as any value remains to continue the insurance. The Full Reserved value of a lapsed Policy, computed on the 4 per cent standard, is applied to keeping the insurance in force; or, if preferred, to the purchase of a Paid up Policy at the Company's regular published rates. After the third year Policies are incontestable, except against intentional fraud, and all restrictions upon travel or occupation are removed. The Company loans up to one-half of the reserved value of its Policies when satisfactory assignments can be made as collateral security; and its practice as to the purchase of Policies for cash values has always been extremely liberal. Losses are paid immediately on completion and approval of proofs; and in all essential features a Policy in the Mutual Benefit offers advantages equal if not superior to those of any other Company.

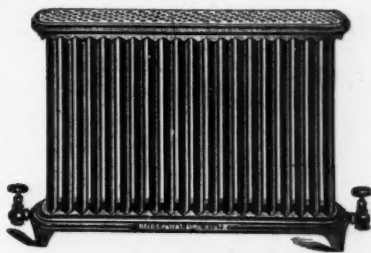
CHARLES LEYENBERGER,

State Agent for Illinois,

No. 5 TRIBUNE BUILDING, CHICAGO.

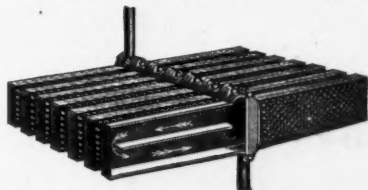
ESTABLISHED 1853.

Reed's Direct Radiator!



OVER 1,600,000 FEET IN USE.

GOLD'S INDIRECT "PIN" RADIATORS,
STANDARD MEASURE AND PATTERN.



GOLD'S IMPROVED X. L. SECTIONAL BOILER,
TWELVE SIZES.

MILLS' SAFETY STEAM GENERATOR,
SIX STYLES, ADAPTED TO ALL BUILDINGS.

Builders of the latest improved apparatus for warming and ventilating
*Public Buildings and Private Residences by Steam
or Hot Water.*

Descriptive circulars and references sent on application. Please mention this paper.

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

FINE PRESSED BRICK.

LOCKWOOD & KIMBELL,

SOLE AGENTS FOR THE

PRESSED

ST. LOUIS HYDRAULIC
—AND THE—
TRENTON, NEW JERSEY,

BRICK.

Both so well and favorably known for their fine finish and elegant color. Also dealers in

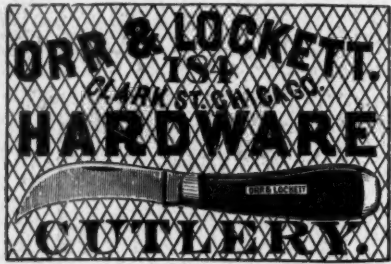
Philadelphia, Baltimore, Milwaukee, and Fancy Molded Brick.

The above lines of Brick are known to be reliable in every particular, having stood the test of fire and weather for years, and are known to be the productions of the best manufacturers of the country.

A large stock of Pressed Brick constantly on hand at our new Warehouse and General Office at

FIFTH AVENUE AND POLK STREET.

Architects and all interested are cordially invited to visit and inspect our Stock after April 12th.



DEALERS IN

BUILDERS' HARDWARE

—OF—

Every Description.

WE MAKE A SPECIALTY OF

FINE BRONZE TRIMMINGS,

And carry a Large Stock of all the Leading Makes.

All the latest inventions of merit can be found with us. We are Chicago Agents for

Geer's Spring Hinge, Norton Door Check and Spring,

"Architect" Sliding Door Hangers and several other specialties.

CORRESPONDENCE SOLICITED.

• ORR & LOCKETT,

184 & 186 CLARK STREET and 138 MONROE STREET,
CHICAGO.

B Over 3,000,000 Feet
now in use. R

U
N
D
Y

R
A
D
I
A
T
O
R
S

SEND FOR
DESCRIPTIVE CATALOGUE.

ARCHER & PANCOAST

MANUFACTURING CO.

—DESIGNERS AND MANUFACTURERS OF—

Gas Fixtures,

Nos. 250 & 252 WABASH AVE.

H. G. WILLARD, Resident Manager, CHICAGO.

67 Green Street, and 68 & 74 Wooster Street, NEW YORK.

No. 12 West Street, BOSTON.

WM. E. HINCHLIFF & CO.

SUCCESSORS TO

HINCHLIFF & OWEN.

MANUFACTURERS OF

INDIANA

PRESSED

BRICK,

PLAIN AND ORNAMENTAL.

No. 159 LA SALLE STREET,

Room 10.

CHICAGO.

*Exhibit of Materials to be seen at our Office and at Permanent
Exhibit and Exchange of Building Materials and Improve-
ments, No. 15 Washington St., Chicago.*

HYDRAULIC AND STEAM

PASSENGER and FREIGHT

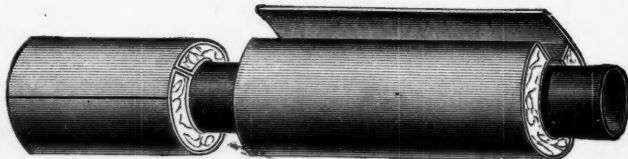
ELEVATORS

CRANE BROS. MFG. CO.

Chicago Offices & Works, 10 N. Jefferson St.

NEW YORK, 40 and 42 Wall Street. BOSTON, Mason Building.
PITTSBURGH, 111 Water Street. ST. LOUIS, 620 Chestnut Street.
CLEVELAND, Blackstone Building. MINNEAPOLIS, Hennepin Block.

Mineral Wool



PIPE AND BOILER COVERING.

Made in sections three feet long to fit every size pipe. Also, in suitable sheets to fit any Boiler, Dome, Drum, or Tank. The best non-conductor, ABSOLUTELY FIRE-PROOF, will not char, crack, or powder. The cheapest and the best. Easily applied or removed by anyone.

Also, MINERAL WOOL in bulk for deafening and packing constantly on hand. Send for Circulars and Price List.

THE KELLY SCROLL SECTION MFG. CO.,

231 Fifth Avenue, CHICAGO.