

Southern Architect and Building News

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ENSURE ARCHITECTURAL
STRENGTH, BEAUTY AND
SALES SERVICE.

Kawneer STORE FRONTS

INSTALLED IN MORE THAN
70,000 SUCCESSFUL
STORES IN U.S.

WRITE FOR NEW CATALOG "K"
KAWNEER MANUFACTURING COMPANY, NILES, MICH.

GURNEY BOILERS
FOR STEAM AND HOT WATER RADIATORS
GIVE COMPLETE SATISFACTION

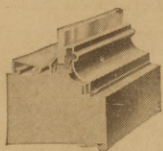
SHOW ROOMS: NEW YORK, PHILADELPHIA, WASHINGTON, GURNEY HEATER MFG COMPANY, HOME OFFICE: 188-200 FRANKLIN ST. BOSTON

SAMSON SPOT SASH CORD



SAMSON CORDAGE WORKS, BOSTON, MASS.

HESTER
Best of its type.



Will Last as Long as
the Building

A Better Store Front
for Less Money

BRASCO MFG. CO., 5025-35 Wabash Avenue, Chicago

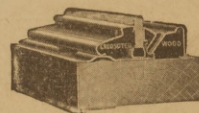
Brasco

COPPER STORE FRONTS

Southern Office
Care of R. L. DAVIES
622 Candler Building
Atlanta, Ga.

Send for Catalog and
Detail Portfolio

BRASCO-COPPER
and
CREOSOTED WOOD
absolutely imperish-
able.



WATER STORAGE TANKS
OIL STORAGE TANKS
HYDRO-PNEUMATIC TANKS
HOT WATER TANKS
GASOLINE STORAGE TANKS

TANKS

FOR EVERY PURPOSE

WHEN SENDING FOR CATALOGUE, SPECIFY KIND OF TANK DESIRED

NEW YORK
26 CORTLANDT ST.

WM B. SCAIFE & SONS CO.

HOME OFFICE
PITTSBURG PA.

WATER FILTERS
RANGE BOILERS
SMOKE STACKS
EXPANSION TANKS
AIR RECEIVERS

ROOFING SLATE

MINERS, MAKERS AND SHIPPERS OF ALL STYLES AND
COLORS ROOF SLATE SINCE 1869.

Write for prices.

Rising & Nelson Slate Co.

Main Office, West Pawlet, Vermont.

Branch Offices:—101 Park Ave., New York City; 4 Post Office Square,
Boston, Mass. Office and Yard, 2554 W. Harrison St., Chicago, Ill.

THE WINKLE TERRA COTTA COMPANY

Manufacturers of

Architectural Terra Cotta

ALL COLORS

502-3 Century Bldg.,

ST. LOUIS, MO.

AMERICAN ELEVATORS

Built by

AMERICAN ELEVATOR and MACHINE CO. INCORPORATED LOUISVILLE, KY.

The Hawley Down Draft Furnace Co.

Builders of the Original Down-Draft Smokeless Furnace
and the Hawley-Schwartz Metal Melting Furnaces.
Formerly of Chicago.

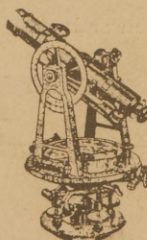
Easton, Pa.

Atlanta Architectural Terra Cotta

Made in Atlanta by

ATLANTA TERRA COTTA COMPANY

514 Third National Bank Building
Factory at EAST POINT, GA.



218 E. 10th St.

O. GRINER

ENGINEERING
Instrument Maker
Architects', Engineers' and Contractor's
Supplies.

"EVERYTHING FOR THE DRAFTING
ROOM"

TRANSITS and LEVELS Repaired, Rented,
Bought and Sold.
BLUE PRINTING
Both Phones Main 4083.
KANSAS CITY, MO.

169470

Perforated
Radial Brick

CHIMNEYS

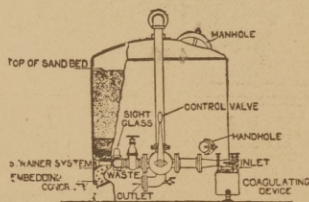
BERGEN & LINDEMAN, Inc.

120 Liberty St.,

NEW YORK

Branch Offices: Philadelphia and Boston.

Newest



Best

WHEELWRIGHT WATER FILTER

For Residences, Hotels, Office Buildings, Swimming Pools, Ice Plants, Laundries, Breweries, Hospitals, Schools, Factories and the like.

LOUIS WHEELWRIGHT

507 Flatiron Bldg.

New York



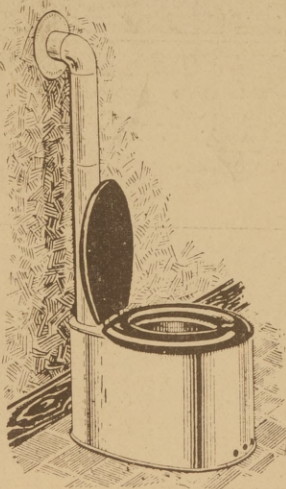
Chemical Closets

Carpenters and Contractors

sell and install our Magic Chemical Closets And Make Some Real Money. Put one in every house you build or remodel. The Magic is sanitary, odorless, and requires no water or sewer. Our money back guarantee protects you. Magic Chemical keeps the closet sterilized at all times.

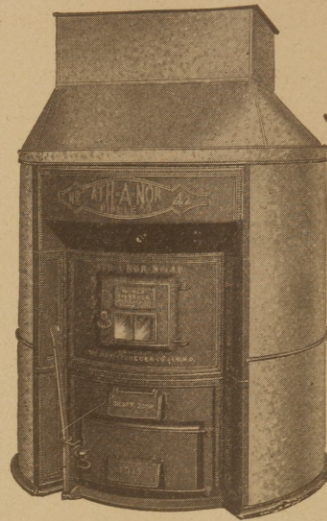
DOWN WITH THE OLD
PRIVY—ENJOY CITY
PRIVILEGES

Put it in any bedroom or clothes-closet.



Write us at once for full information and agents' price lists.

Chemical Closet Supply Company
MANISTEE, MICHIGAN.



One
Quarter
of
Century
of
Service

The Ath-A-Nor Furnace has been giving service for 25 years and now we present the latest in Warm Air Heating, The Ath-A-Nor Pipeless. We have made extensive tests on this furnace and have been successful in overcoming the faults of most pipeless furnaces.

We are also manufacturers of The Akron Air Blast, Ath-A-Nor and Solid Comfort Pipe furnaces.

Write today for catalogue and prices.

MAY-FIEBEGER FURNACE CO.
NEWARK, OHIO

THREE IN ONE LIGHTNING RODS

fo the **Burkett** make are backed by a half century of successful business and a guarantee, ASSURING ABSOLUTE PROTECTION on EVERY INSTALLATION.

The illustration shows you definitely the construction of BURKETT RODS.

Around the tape are closely woven a series of soft copper strands. Each strand is a surface conductor and in contact with the spiral tape core. This method of construction forms a



PERFECT Tube.
Convince your prospective customer that BURKETT RODS are the BEST he can buy.

We still have some exceptional openings in Big Paying territory for good live Builders.

IT WILL PAY
YOU TO WRITE
US TODAY.

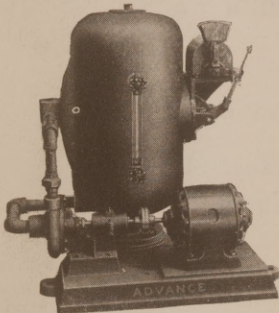
BURKETT LIGHTNING ROD CO.
FREMONT, OHIO

TETTENBORN

**Safe, 100% Sanitary
Solid Porcelain
Refrigerators**

**Beaver Refrigerator Mfg. Co.
New Brighton, Pa.**

AUTOMATIC ELECTRICAL CONDENSATION PUMP AND RECEIVER



**For Vapor and Low
Pressure Steam Heat-
ing System**

We guarantee absolute satisfaction on return systems where our outfits are used. There is a partial vacuum produced on the return mains and receiver of these outfits. The water is automatically discharged into boiler at pressures ranging from zero to twenty pounds, and we insure positive protection against overloading motor with our special safety nozzle.

Write now for Bulletin RH 205.

**ADVANCE PUMP & COMPRESSOR CO.,
Battle Creek, Michigan.**

X-RAY REFLECTORS ARE STANDARD FOR SHOW WINDOW LIGHTING

Because

1. They are silver mirrored.
2. Their brilliancy is everlasting.
3. They never crack, peel or blister.
4. Of correct light control.
5. A saving of 40% in current is made.
6. Easily cleaned.
7. No glare.
8. Each reflector is labeled showing lamp.

NATIONAL X-RAY REFLECTOR CO.

Home Office:
CHICAGO, ILL.

Southern Office:
Memphis, H. O. Bourkard, Scimitar Bldg.

"711"

That's the Name
of the Trap
shown in the cut
and merely asking
for

"711"

is a brief but
sufficient way of

**BUILDING
BIGGER
BUSINESS**

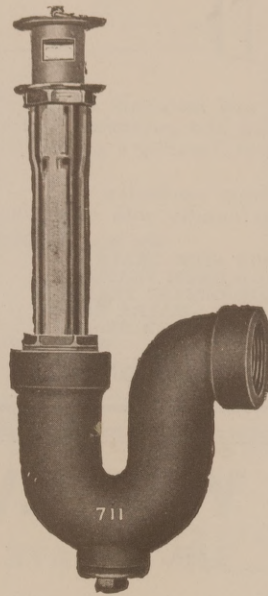


Fig. A

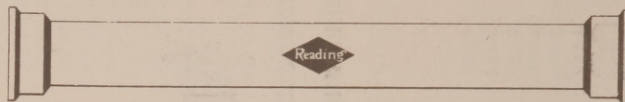
**FOR BASINS, SINKS, TRAYS AND
BATHS.**

Write for prices.

ESSEX FOUNDRY

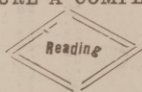
Newark, N. J.



READING BRAND*The Soil Pipe with Five***SOIL PIPE***Guaranteed Features*

1. Only the very best of raw materials used in its manufacture.
2. Every length fully tested and guaranteed before leaving foundry.
3. Angles all made the same, insuring a ground joint connection—thus reducing the amount of lead used to a minimum.
4. Easy cutting and free from sandholes.
5. Made in an up-to-date foundry with every facility for turning out high grade products.

WE MANUFACTURE A COMPLETE LINE OF
 CAST IRON SINK TRAPS
 CAST IRON DRUM TRAPS
 CAST IRON GREASE TRAPS
 VENT BOXES—WATER BOXES
 HYDRANTS—BOILER STANDS



DRINKING FOUNTAINS
 GARAGE TRAPS
 FLOOR DRAINS
 CESSPOOLS
 WATER HEATERS

WRITE TODAY FOR CATALOGUE.

Reading Foundry and Supply Co.,**Reading, Pa****DID YOU EVER GET ANY?****UP-TO-DATE ARCHITECTS DO.****They want Guaranteed for Strength, Comfort, Beauty and Economy**

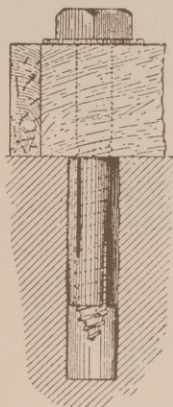
When specifying seats for a job get our Catalogue and name of nearest jobber who handles our line.

A Satisfied Client is Your Best Ad—You Are always talked of: Good or Bad

Satisfaction Guaranteed By Us.

KNOTT MANUFACTURING CO., Main Office and Factory, TELL CITY, IND.**SAVES MONEY**

Because of its simplicity the Little Giant Expansion Screw Sleeve can be manufactured and sold at a low price. However quality has not been sacrificed to price. The

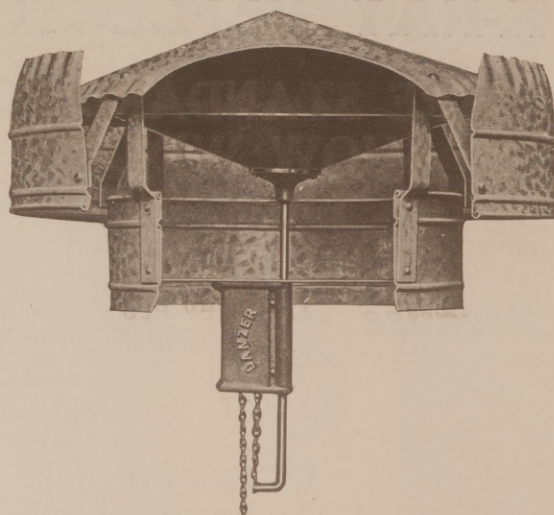
**LITTLE GIANT****Expansion Screw Sleeve**

expands evenly throughout its entire length from the first turn of the screw. Screw cuts its own thread as it enters.

Write for Prices

STANNARD MFG. CO.

Springfield, Mass.

**HOT AIR
Rapidly Exhausted by
ROSE TOP VENTILATORS**

Absolutely Stormproof, constructed to exhaust maximum amount of air without danger of leakage. Can be equipped with Single Chain Lift Damper as illustrated. Six thousand furnished U. S. Government last year. Price reasonable.

Danzer Metal WorksHAGERSTOWN, MD.
Dept. S.

INDIANA LIMESTONE

FOR ALL BUILDING PURPOSES.

Sawed, Planed, Turned, Cut and Block

See that you have a price from our Company before placing order. Plans will be returned promptly if sent for estimate.

J. Hoadley & Sons Company, Inc.

P. O. Box 83.

Bloomington, Ind.

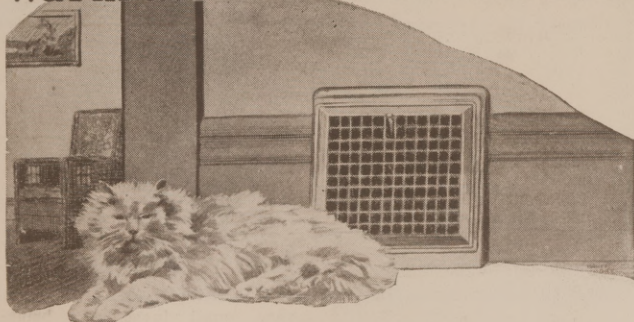
Bowling Green & Green River Quarries Co.

Dealers in the Celebrated

**Bowling Green & Green River
Bleaching Limestone**

Blocks Sawed—Planed—Turned—and Cut
BOWLING GREEN, KY.

COLUMBIAN All-Steel Warm Air REGISTERS



The Finishing Touch of a Good Job

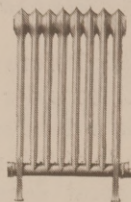
AS Michael Angelo said to the man who asked him why he spent so much time on a trifling detail: "Trifles, my dear sir, make perfection and perfection is no trifle."

In Columbian Registers the lattices are strong without looking clumsy, the shutters, or deflectors, operate smoothly and quietly and close tightly. The finish is always perfect whether it is plain black or white japan, or electro-plated with copper, brass or nickel.

A good furnace, good flues and Columbian Registers make a combination of which the heating contractor can be proud.

Have you the latest Catalog?

The Columbian Hardware Co
Cleveland, Ohio



Specify

Pressweld and you can be certain that you are furnishing a radiation which will give the utmost in heating service and fuel economy.

PRESSWELD

improved

RADIATION

has many commendable features. The quick heating and cooling facilities—the light weight—the ALL-WELD idea—the *proven* fuel saving—these are some of the things that make Pressweld the most practical and most preferable radiation. Certainly it is to your advantage to know Pressweld—know what it will do and why it will do it.

It costs nothing to get the facts. Wire or drop a line today. Address Dept. "C"

**American Pressweld
Radiator Corporation**

DETROIT

Specify Pressweld Always



Dark Hollow Gray

MR. ARCHITECT: Before making the selection for your client consider **DARK HOLLOW GRAY**. There is a decided beauty in the soft, delicate gray shade of this material. This stone is possessed of great density, runs more uniform in color and texture and is of a fine, close grain.

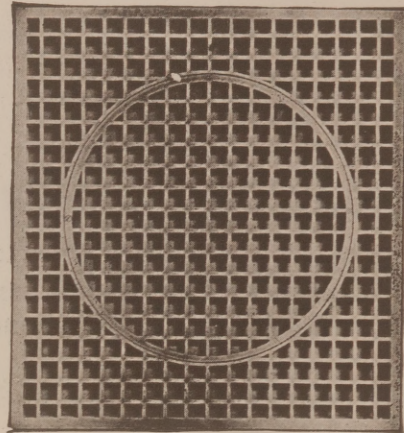
Write for samples of this material. Compare **DARK HOLLOW GRAY** with other Indiana Limestone.

We have in our stacks at the quarry several hundred thousand cubic feet of this material thoroughly seasoned and ready for shipment.

To assure yourself of getting this material, your specifications and contracts should stipulate the use of **DARK HOLLOW GRAY BEDFORD STONE**.

THE CONSOLIDATED STONE CO.
BEDFORD, INDIANA.

DUPLEX GRATINGS for Pipeless Furnaces



We carry the following Gratings in stock for immediate delivery:

| Size Grating | Size Collar | Size Grating | Size Collar |
|--------------|-------------|--------------|-------------|
| 20 x 22 | 14 | 30 x 36 | 24 |
| 22 x 24 | 16 | 35 x 35 | 26 |
| 24 x 27 | 18 | 36 x 36 | 28 |
| 30 x 30 | 22 | 40 x 40 | 30 |
| | 45 x 45—36 | | |

Prices on Application

TUTTLE & BAILEY MFG. CO.

NEW YORK

Chicago

Boston

Cleveland

Bridgeburg, Ont.

Get the Idea of the Martin Method



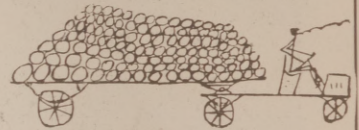
A horse cannot carry more than $\frac{1}{4}$ ton



But can easily pull a ton.



A runabout will soon break down under a ton strain

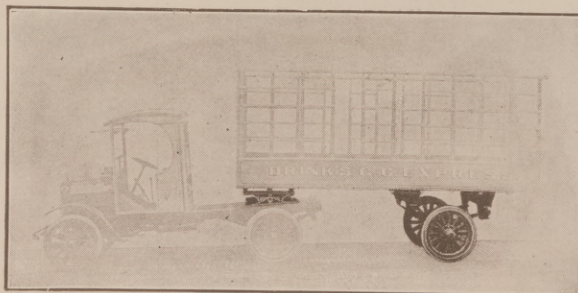


But the same runabout can easily pull 2 to 3 times its carrying capacity.

THE MARTIN METHOD multiplies the load-carrying capacity of the automobile three fold.

THE MARTIN METHOD is based on the famous Martin Rocking Fifth Wheel, which makes the connection between the motor chassis and the Semi-Trailer.

THE MARTIN METHOD combines perfect steadiness with the necessary amount of flexibility.

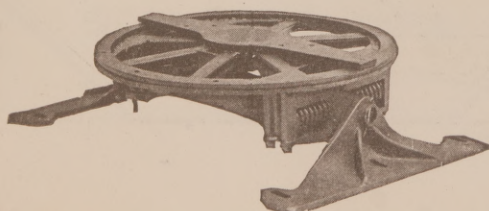


Martin Fifth Wheel and Rear End Assembly shown in relief.

THE MARTIN METHOD makes a very small investment bring your motor truck up to date, and with increased load-carrying capacity.

THE MARTIN METHOD is immediately available. We supply parts or Semi-Trailer complete.

Write for our interesting and fully priced catalog showing Fifth Wheels, Rear End Assemblies, and Semi-Trailers, 1 to 10-ton capacity.



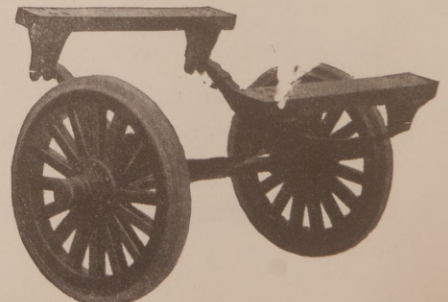
Martin Rocking Fifth Wheel Co.,

P. O. BOX 1244-R

Springfield,

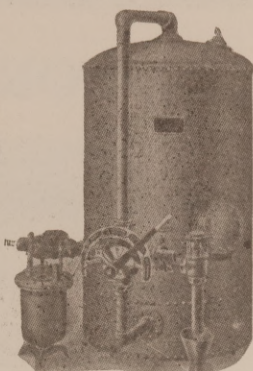
Mass.

Manufacturers of Martin Rocking Fifth Wheels, Semi-Trailers, Semi-Trailer Parts, Rear End Assemblies.



There is a
**ROBERTS
FILTER**

For Every Need



*Style "G"
Roberts Filter.*

Catalog on Request.

Made in varying sizes to meet requirements for capacities. One valve controls all functions. Complete list of filters shown in Sweet's Catalog.

Roberts Filter Mfg. Co.

Main Office, DARBY, PA.

1707 Flat Iron Bldg.

New York

FACTORIES—Darby and Frankford.
(Suburbs of Philadelphia, Pa.)

**Wright
Coal
Chutes**

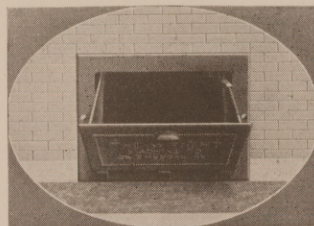


Are Mechanically Right

The design and construction of Wright Coal Chutes speak for them long and useful lives. They are constructed throughout of extra heavy cast iron, weigh practically three times as much as any other chute of the same dimensions. They will never lose their shape nor ease of operation.

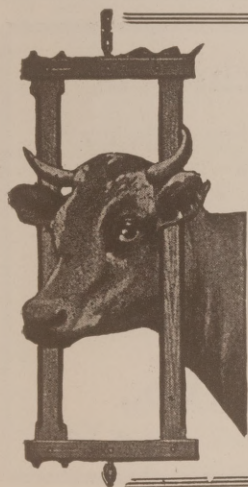
They are easily installed. Will stand on flat surfaces which eliminates the necessity of staking and tying while being installed. They plumb themselves. Architects and contractors should always specify the Wright Chute.

*Write for Discounts
They are Liberal.*



**Wright
Machine
Company**

321 E. 2nd Street
OWENSBORO, KY.



**CRUMB'S
Patent Chain-Hanging
STANCHIONS**

Make cows comfortable, keep them clean, and increase the flow of milk. Used with either concrete or wood base.

Liberal Discount to Contractors or Dealers.

Manufactured by

Wallace B. Crumb

Box S, Forestville, Conn.

Dependable Showers

Easily set for desired temperature

The Milwaukee Mixer

precludes all danger of scalding.

Made in a variety of designs.

Valve either exposed or concealed.

China or metal handle.

Order from you jobber.

The Milwaukee Flush Valve Co.

Valve Specialist

MILWAUKEE, WIS.

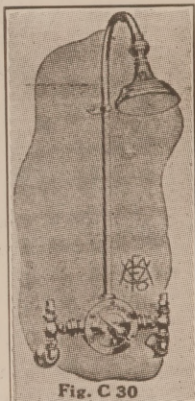


Fig. C 30

**CRUSHED GRANITE
GRANITE SAND
RIP-RAP
JETTY STONE**

ALL SIZES SHIPPED PROMPTLY

A. T. Small Quarries Company

OFFICES: 353½ THIRD ST., MACON, GA.

QUARRIES: HOLTON, GA.

SANDS KEROSENE HEATER

Heats 30 gallons of Hot Water in one hour.

No wicks—no odor—
makes its own gas.

Double copper coil construction.

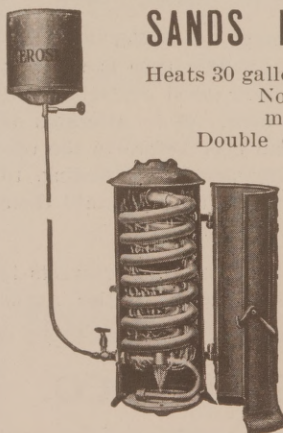
Economical—

Burns eight solid hours
on one gallon Kerosene.

*Circular and prices on
request.*

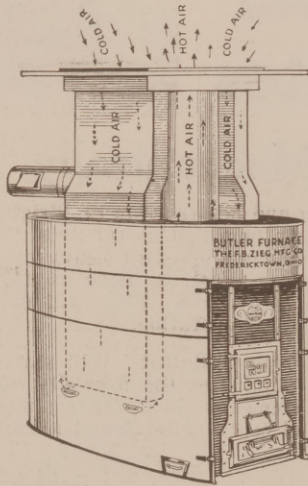
THE AUGMORE MFG. CO.

5300 Sweeney Ave.,
Cleveland, Ohio



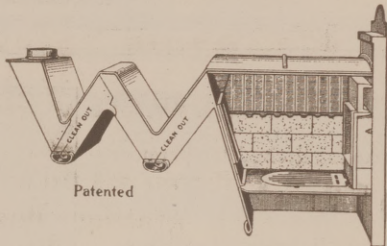
A Complete Line

Butler
Furnaces
Made in
3 Sizes
and
2 Types



Adapted for
Residences,
Apartments,
Storerooms,
School Houses
and
Public Halls

**Completely Assembled
When You Knock
Off the Crate**



WHEN you knock the shipping crate from a Butler Furnace you find the heating unit completely assembled with everything in place and all joints tightly caulked.

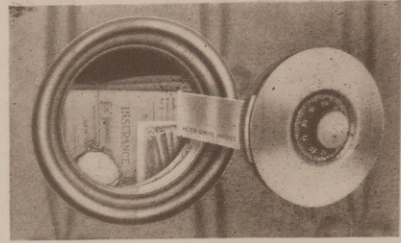
You and your helper carry it into the basement—set it on the floor—place the wrought iron base around it and proceed with the assembly. This will be found most simple as the furnace will have been previously assembled at the factory and all parts will go readily into place.

Another important advantage of Butler construction particularly interesting at this time is the fact that all parts that might ever need replacing will pass readily thru the fire door. More attention is being given at this time than ever before to the efficiency of furnaces and many people are finding, to their sorrow, that new parts can't be put into their furnace without completely dismantling it.

To be able to point out this feature to prospects is just another of many advantages the Butler Agent has over competitors.

THE F. B. ZIEG MFG. CO.
Fredericktown, O.

VICTOR-LOWRIE



WALL SAFE

A
PRESENT
DAY
NECESSITY

ADAPTED
FOR
APARTMENT
HOUSES

WE WILL BE GLAD TO SUBMIT DETAILS

MANUFACTURED EXCLUSIVELY BY
The Victor Safe & Lock Co.
CINCINNATI, OHIO

Also Manufacturers of Safes, Light and Heavy Vault
Doors, Deposit Boxes and Bank Work of all Character

Notice to Architects

For that cool, non fading Bluegray
side walk or stucco, ask your dealer
for

**THE L. MARTIN COMPANY'S
EAGLE BRAND LAMPBLACK**

Special Blacks for Pointing Brick and
Stone.

The L. Martin Co.,
81 Fulton St. New York

Heating Apparatus

For Schools, Churches, Dwellings and other
buildings.

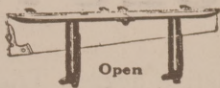
Wonderful "Bilt-Rite" Furnaces

THE HAMMOND HEATING CO.,

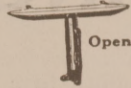
130 E. Pearl St.,

Cincinnati, Ohio

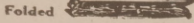
Unbreakable Steel Folding Saw Vises



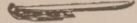
No shift saw vise. 28 in. jaw, wgt. 4 lbs.



14 in. jaw, wgt. 2 lbs.



Folded \$2.25 Prepaid



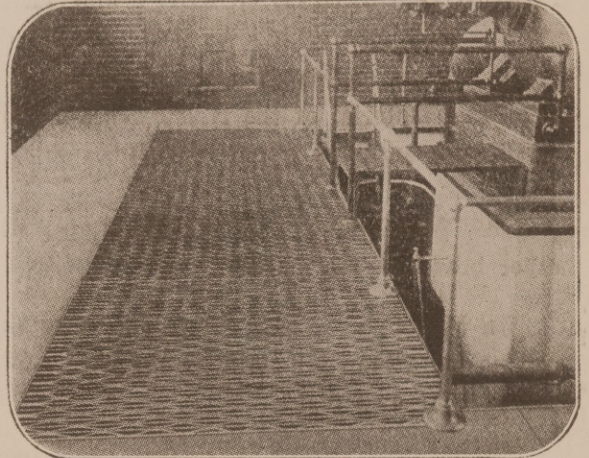
Folded \$1.25 Prepaid

The 28 in. vise takes the full length of saw. The 14 in. vise required only on shift of saw.

Buckeye Manufacturing & Foundry Co.
Successors to Buckeye Saw Vise Co.
9491 Lake Avenue, Cleveland, Ohio

IRVING SUBWAY

TRADE MARK
(PATENTED)
THE FIREPROOF VENTILATING FLOORING



Maximum Strength
Maximum Lighting
Maximum Ventilation
Maximum Safety
Minimum Weight

What more can you ask, in a metallic flooring or grating - flooring? And you get all these advantages combined, in Irving Subway, the ideal metallic flooring. Built in panels of convenient size, easily handled, its light weight means not only a saving in dead weight, but also in weight and cost of the supporting framework. Its surface is absolutely non-slipping — and wheeled trucks can be rolled over it in any direction.

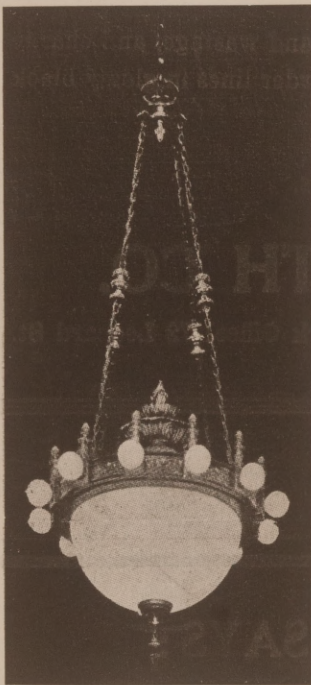
If you have a place where you need the advantages of the best grating with all the good features of the best flooring, write for Catalog 1A9.

Irving Iron Works Co.

Long Island City, N. Y., U. S. A.

Ornamental Lantern

**Equitable
Trust
Building
New York**



Made By

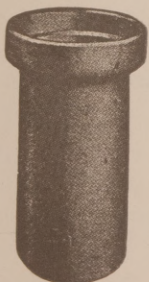
Bullock Mfg. Company
LIGHTING FIXTURES

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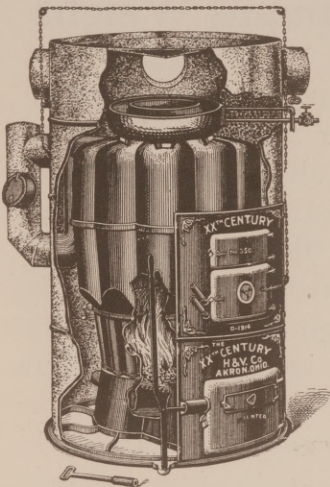
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Southern Architect and Building News

WITH WHICH IS CONSOLIDATED "SOUTHERN BUILDING RECORD"

VOL. XLIV.

DALTON and ATLANTA, GA., NOVEMBER, 1919.

No. 1

The Southern Architect And Building News

Southern Architect and Contractor, Atlanta, Ga., and Southern
Building News, Memphis, Tenn., and Southern Building
Record, Nashville, Tenn., Consolidated.

Entered as second-class matter May 27th, 1911, at the Post
Office at Dalton, Ga., under the act of March 3d, 1879.

This paper is issued and mailed from our printing house
at Dalton, Ga. Business office, Atlanta, Ga. All letters
should be addressed to the Atlanta office. Editorial office,
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Do Your Best.

Every young man has sessions with himself when he wonders if he is on the right track. He ponders over his tasks and seems unable to determine whether he is cut out for success or failure. These times come to every young fellow and discouragement often follows. The young man who does not think about his own welfare and future is not bound for success, and will discover some day that a little introspection applied at intervals would have been a good thing. Every fellow who has these experiences should remember one thing, and that is that if he is

doing the very best he knows how in the place he is filling he is doing all that can be asked of him, and that if he is doing this and the place is not the one in which he belongs or where his efforts will tell for the most, the time will come when wider opportunities will present themselves.

The most important work any man has to do is that task that is before him today. The future is made up of tomorrows, but the present is what counts. If today is taken care of, and the end of the day's work shows that you have done your very best, permitted no opportunities to pass you by, you may be sure that you have accomplished what you set out for, and daily accomplishments are what make future successes. No building was ever built that stood the test of time and storm unless the foundation was right. The builders may have struck sand pockets, soft clay and cave ins, but they kept on and on, and when the foundation was completed, and each piece of work and each step in the progress of the work what it should be, they found the building to be secure, and able to stand almost any strain. The work of today is the foundation of tomorrow. Build your foundation right, and the building is sure to stand.

Building Costs Next Spring.

Here in the South where the climate conditions make it possible to start a building program now and continue it through the winter months, it seems to us there is little use to wait for lower prices for building material to come, for as we see it, the longer you postpone, the greater the cost, so why not look at it from the investors' viewpoint and take advantage of the early rents while prices of material is as low as they will ever be for some years to come.

Actually, there are already people here in the south who are forced to live in tents and with the approach of winter this part of our population will have to do about mightily to make comfortable their snug little huts. Aren't you people who are able to buy and build and don't, really to blame for the situation, or maybe it is you who already have the lot and won't build. If you haven't the money with which to improve that vacant lot where taxes are eating on it every time you turn around, there's plenty of money waiting your requisition or request. Why not be patriotic, Mr. Investor, and build? This, it seems to us, is your greatest opportunity in the history of this or any other community.

Primitive Building Methods.

The Old Man of the Tifton, Ga., Gazette has recently been recalling some old-time building methods which obtained in certain sections of the South years ago when builders were few and methods not so up-to-date as now. His writings have brought forth more interesting information along this line, who contributes the following in the same paper, all of which is most interesting to readers of the Southern Architect and Building News. This new writer, above referred to, recalls:

"I have a few houses on my place yet that are covered with rived boards. When I married 34 years ago I moved into a house with a new board roof and when I put a new cover on that house recently, those old boards were the best part of the roof. I remember once when I was very small helping my father put on a roof where we used hickory pegs to fasten the boards instead of nails, boring the holes with a gimlet. One peg went through two boards but they held and the roof was a good one."

"That was better than weighing the roof down with poles," we suggested.

"Yes; but the first house I saw built for negroes after they were freed had the boards weighted down with pine poles, and they held very well."

What Is a Profession?

A discussion of the above subject might be of considerable interest to our readers. We quote below from the announcement of Dantzig, Pfeifer & Ritt, Consulting Mathematicians.

"We wish to announce the formation of a firm of Consulting Mathematicians with offices at 500 West 116th Street, New York City. This firm undertakes to handle all problems arising in industry for the solution of which the knowledge of a mathematical specialist may be necessary."

"Problems come up in practically all technical fields for the satisfactory solution of which the expert application of mathematics is essential. Directors of technical enterprise do not hesitate to call in the consulting engineer, consulting chemist, patent-attorney or efficiency expert, but the mathematical features of technical problems are often left without adequate treatment. We are sure that this is due neither to a reluctance of industrial managers to consult mathematicians nor to a lack of desire on the part of mathematicians to handle industrial problems, but rather to the fact that men fitted for consulting service in this field have heretofore been too far removed from the industrial world. It is with the expectation of being of important service to the technical public that we announce the establishment of our office."

Some one may answer that any technical line may

be followed as a profession, others may have a different opinion. Be that as it may, the above item is of interest, as it is the first announcement of the kind that has ever come to our attention.

Would Stop Lumber Exports.

The exportation of lumber from the United States for a period of two years would be prohibited under the terms of a bill offered in the House by Representative Jeffries of Nebraska. Any person violating the act would be fined a sum not exceeding the value of the timber so exported. One of the purposes of the law, according to Mr. Jeffries, would be to reduce the building costs. Embargoes and prohibition of exports have from time to time been urged as a means of reducing the living cost, but no plan has seriously been considered.

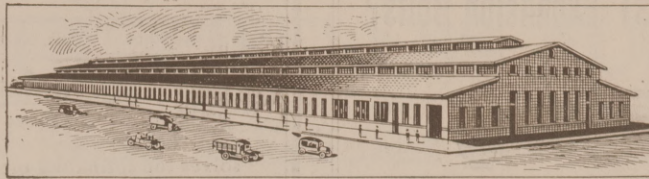
"In these crucial days of reconstruction it becomes necessary to take especial precautions to protect the work now under way and to encourage further building activities," Mr. Jeffries says. "The great domestic demand for lumber during the war was evidenced in the decrease of exports. However, reports of the Department of Commerce to June, 1919, show that the foreign trade is again on the increase. Figures compiled by that department show that, excluding shingles, staves, furniture, molding, etc., we exported 1,077,973,000 board feet of lumber in the twelve months ending June, 1919. This is more than 10,000,000 feet in excess of the amount exported the previous year and is 30,000,000 feet more than the export of 1917.

"My bill seeks to prevent further shipments of lumber to foreign nations until our country can supply its building demands."

Houses and Homes.

America needs homes. In 1890 forty-eight per cent of our people were home owners; in 1910 this per cent dropped to forty-five and today it is estimated to be only forty-two. Home-owning going down—to what? To tenantry, absentee-landlordism, to slums, that disease of society which has been raging at the heart of the major European nations since Watts with his steam engine made it possible to centralize industry?

The stoppage of building during the war has left us a million homes short. That which has long been an industrial handicap has now become a national danger. The need of houses to stabilize the labor market may become a demand for homes to save a nation. Thus it happens that the most important thing to be said about industrial housing at the present time is to watch for a new point of view in approaching it. A new vision is needed.—The Nation's Business for October.

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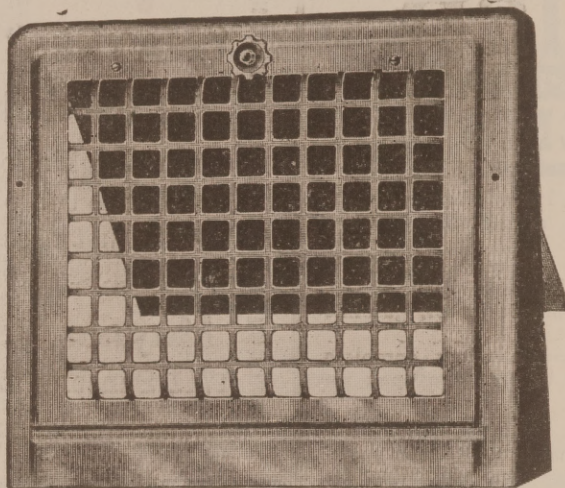
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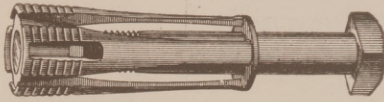
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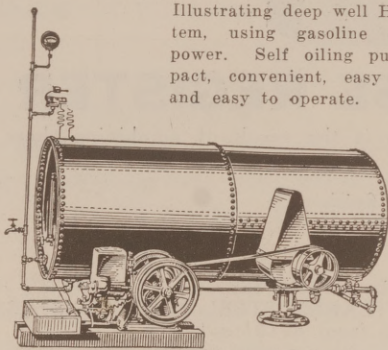
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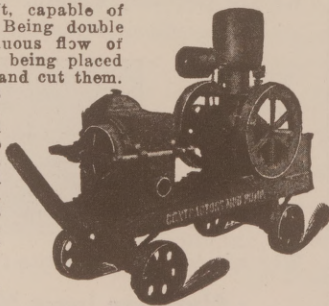
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solves the sprinkling problem for lawns and gardens. Set level with the ground—no hose. Gives a fine misty spray like rain. Uses but little water. Cannot freeze as sprayer is automatically drained.

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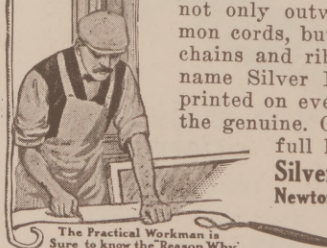
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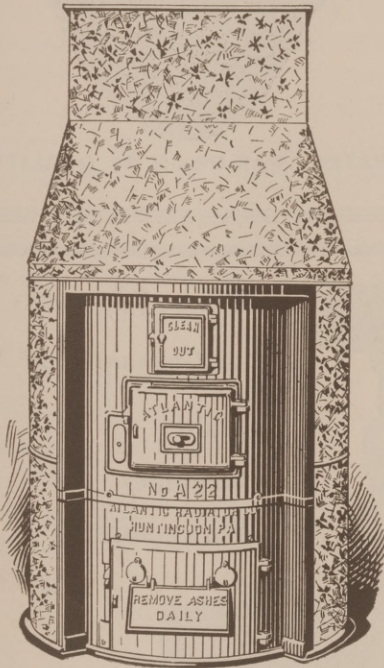
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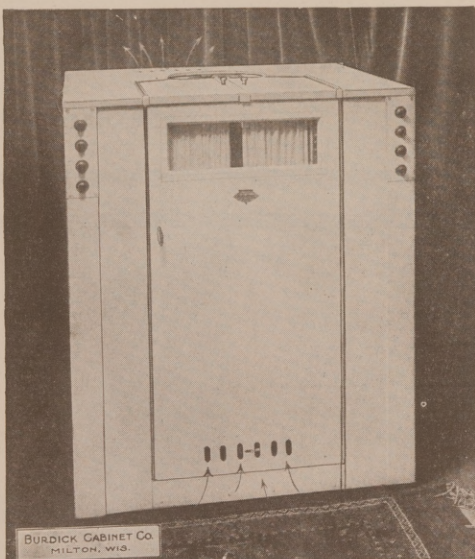
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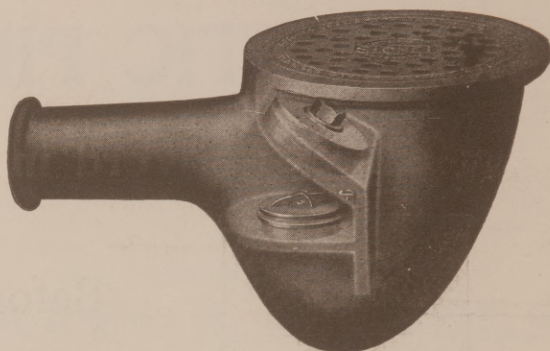
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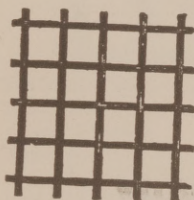
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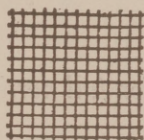
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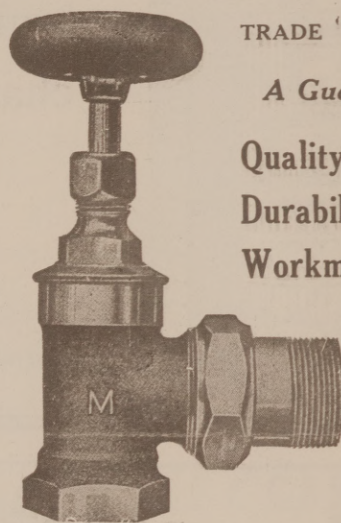
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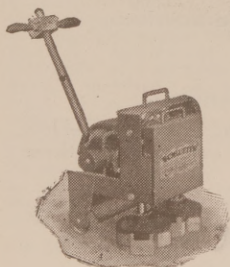
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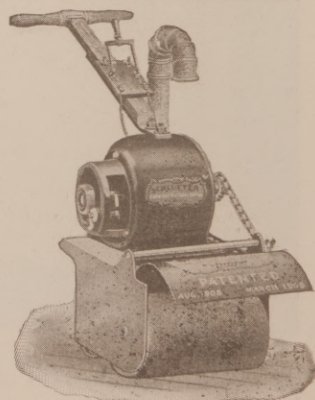
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Dollar Value Third Off.

A dollar today is worth in purchasing power only thirty-five cents of the money of 1896, Dr. Irving Fisher of Yale University told the members of the American Bankers' Association. The price level of the United States is now three-fold the level of 1896, he said, and "in modern slang, we may say almost literally that, as compared with the biggest dollar we ever had, our present dollar 'looks like 30c.'"

"Stabilizing the Dollar in Purchasing Power" was the economist's subject but the great rise in the price level and the fall in the purchasing power of the dollar can not be wholly explained in the usual way, he said.

"Profiteering is an effect rather than cause of rising prices," he asserted, "while scarcity of goods can not, in this country, be alleged as an important factor."

Tracing the rise of prices, he attributed them chiefly to monetary and credit expansion of which war finance was a prolific source. "On the whole," he pointed out, "the money in circulation in the United States rose from three and one-third billions in 1913 to five and one-half billions in 1918, and bank deposits from thirteen to twenty-five billions, both approximately corresponding to the rise in prices."

"Taking a worldwide view, the money in circulation in the world outside of Russia has increased during the war from fifteen billions to forty-five billions and the bank deposits in fifteen principal countries from twenty-seven billions to seventy-five billions. That is, both money and deposits have trebled and prices, on the average, have perhaps trebled also."

The secret of the high prices, he explained, "lies in the fact that the world's war debts have been pulverized into circulating media," this first occurring in Europe but being felt in America long before we entered the war. The rise of prices has hurt those

with "fixed incomes" and helped those who take what is left—the so-called "profiteers," he said.

"In spite of the general impression to the contrary, wages have not, on the average, kept up with the soaring cost of living," the speaker asserted.

"Ignorant radicalism" is using high prices, Doctor Fisher said, as a lever for an attack on the economic system, but after the Civil War, when the country was suffering from the "opposite aberration of our unruly dollar" there was likewise a radicalism expressed in "populism." This, he said, died out after prices stopped falling and he predicted the present day radicalism will similarly expire when prices stop rising.

As a remedy for price fluctuation he suggested varying "the price of gold."

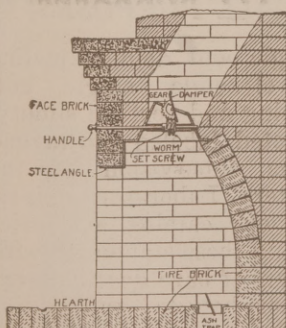
"In other words let us vary the weight of the dollar, weighing it when the index number of prices is too high, and lightening it when the index number of prices is too low."

"This can easily be managed if we have gold circulate by means of paper representatives, redeemable in whatever amount of gold bullion may be, at that date, the dollar."

"In this way, any change in the price level is always in process of being corrected, the gold bullion dollar is always being approximated to a constant purchasing power (i. e. a constant price level), the circulating dollar certificates are redeemable and hence equal in purchasing power to this amount of gold, and finally the credit structure (assuming a sound banking system) is also kept from fluctuating by its relation to this stabilized dollar."

Worth-While Art in America.

No one who understands the conditions under which the exhibition of art works by American painters and sculptors in the Luxemburg museum in Paris was brought about will wax overly enthusiastic as to the kind of impression that the exhibition will



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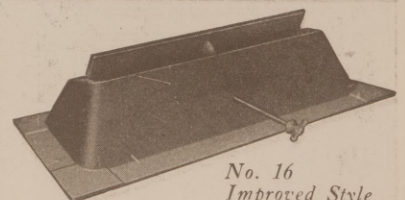
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make. Fortunately, however, for our reputation the responsible artists of France know very well what American art stands for today in portraiture, landscape work, marines and sculpture. And they will make full allowances for an exhibition which, along with the works of men and women who really stand for something, also allows the immature productions of East Side fanatics in New York to be shown, in a vain idea that all those who are "expressing themselves" today in America should be given a chance.

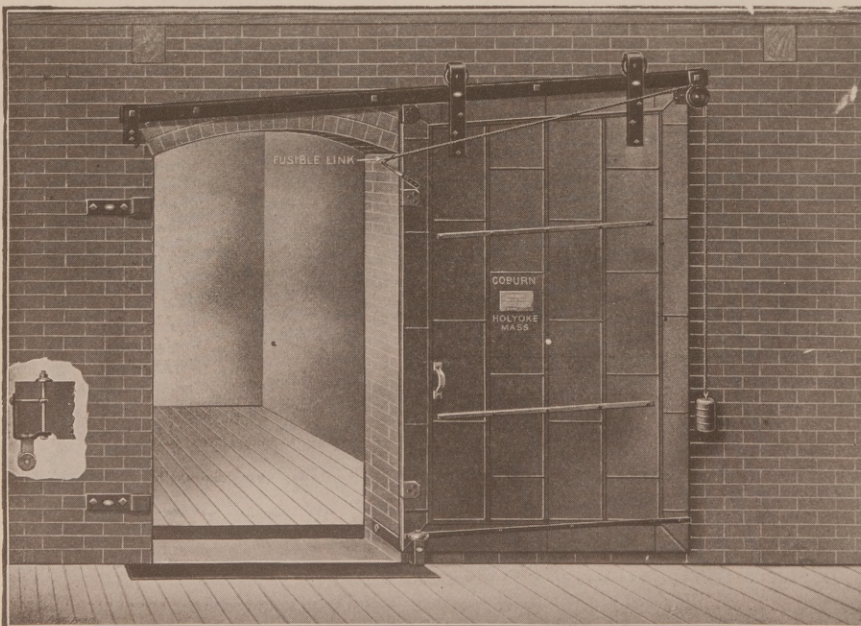
But whatever this kind of thing may mean to Paris or mean over here, a much more happy incident which told of worthwhile art in America occurred yesterday at Toledo, Ohio, when the King and Queen of the Belgians were given a reception in the Toledo art gallery, and there saw the kind of thing that is redeeming art in the smaller cities all over America. For, were they asked, the royal visitors would be compelled frankly to admit that, outside of few great capitals in Europe, for beauty and for the promise of collections representative of the best in American art—such a gallery and such collections could not be duplicated.

Towns of the size of Toledo in Europe, while they may have great traditions and fine historic collections, do not have them housed in a unique marble palace, exquisite in proportions, a daily lesson from its exterior alone of all that is noble in architecture, as is the happy fate of art in Toledo. No, we are do-

ing this thing very well over here and better as the years go by. As the various war memorial buildings, community houses and auditoriums and art galleries rise all over the country, following the great uplift in Federal architecture everywhere, our public art will be an inspiration to all and of a character that the most exacting expert from the old world cannot but admire; for if they should come to scoff they will remain to admire.—Philadelphia Public Ledger.

Defense Made By a Plumber.

Comes now a plumber to the defense of his kind and says it is untrue that the plumber goes back for his tools. The defense was written in reply to the charge made by a Tulsa, Oklahoma paper, that the plumber does go back for his tools—or that he sits and smokes while his helper performs that laborious and time-eating task. This plumber says that every journeyman going out to do a job of repair work carries with him usually a full set of tools and such supplies as he thinks will be needed; that the trouble—the reason the plumber has to go back to the shop—is because the person having the work done, whether the call is given over the telephone or otherwise, is not specific enough as to the nature of the repairs that are to be made.



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Water heated without additional cost while cooking on gas range, by use of the

ELLIOTT Combination Water Heater and Gas Stove Top

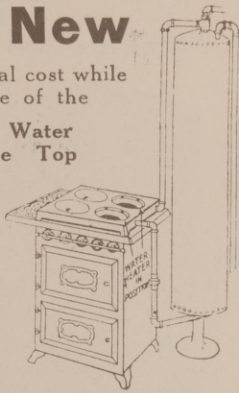
Soon pays for itself in gas-saving. Sizes to fit any gas range.

Not necessary for boiler to be close to range. Can also be attached to oil stoves.

State Rights Offered to Reliable Men. Write Today.

Elliott Water Heater Co., Inc.

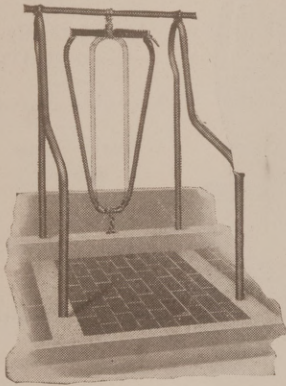
1246 Myrtle Ave., Brooklyn, N. Y.



SPECIFY



Steel Barn Equipment



and make a good profit and better satisfied customers. There are just two units to the CLAY Stall—the partition and top rail. It is erected quickly and easily. The CLAY 2-WAY Stanchion eliminates rigid posts and cow stops. CLAY Equipment is more comfortable for the cow and convenient for the farmer.

Send for large, free catalog, Address Dept. 7.

IOWA GATE COMPANY,

Cedar Falls, Iowa

National Mosaic Tile Co.

MOBILE, ALABAMA.

Manufacturers of Adamantile, a high grade Spanish Cement floor tile, has been used in Europe for centuries, introduced in America by us about ten years ago.

Write us for booklet of information regarding this product.

The Mark of Quality

REGISTERED
ECONOMY
U.S. PAT. OFFICE

Protects the User

Economize
with

ECONOMY

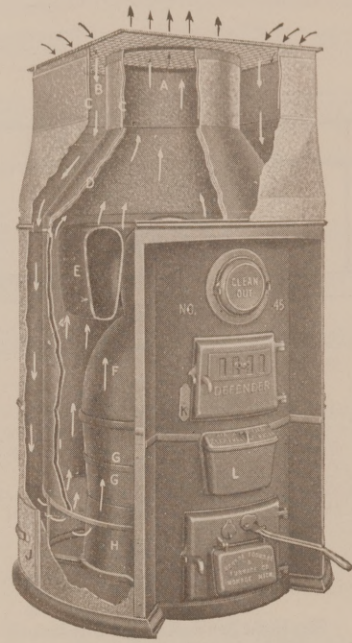
Economy Filing
Cases Everywhere
Why?

In Wood and Steel
Write for illustrated
Catalog Today

**Economy Drawing
Table Co.**
Adrian, Mich.



Six Drawer Sections, 26"x38"x2";



The Defender Pipeless Furnace

A high grade all cast heater with single piece cast radiator and of best workmanship. Will burn any kind of fuel, has properly fitting and proportioned casings which are made adjustable to the height of the cellar. Everything from the factory except the smoke pipe.

No heater is better adapted for use throughout the Southern States. Effective, low in cost, can be installed by any carpenter or handy man without the use of tinner's tools.

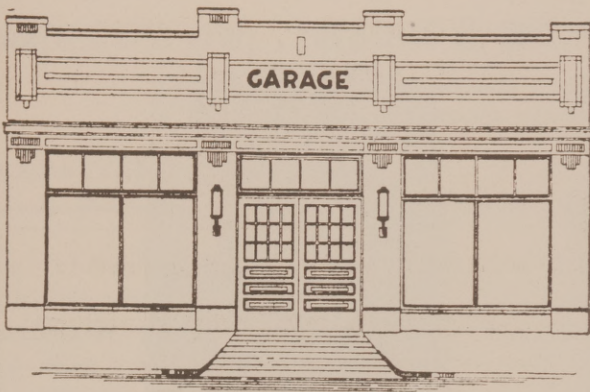
Thousands of Southern homes would be more comfortable with one of these heaters in the cellar and out of the way but ready for instant use at any time.

Directions and full information on request.

Write for pamphlet and prices.

The Monroe Foundry & Furnace Co.

MONROE, MICHIGAN.



PUBLIC GARAGES

Do not let the construction of the modern garage worry you. Our garage department will relieve you of these cares.

Steel Roof Trusses.

We will submit designs and prices free of charge. Give dimensions of building, style and pitch of roof and kind of roofing.

Steel Sash.

Fireproof and giving plenty of light and ventilation are especially adapted for use in garages. We can ship promptly from stock.

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Non-leaking metal skylight frames and standard types of roof ventilators can be supplied promptly.

Show Windows and Doors

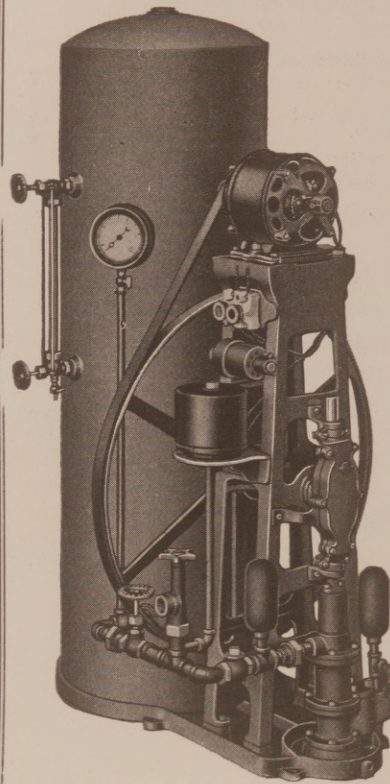
Our specialty is the construction of attractive store fronts. Our garage fronts are standard everywhere.

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George L. Mesker & Company

Complete Store Fronts EVANSVILLE, INDIANA

BUCKEYE ELECTRIC Residence Water Systems



For
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Shallow Wells.
—
Automatically
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Small Current
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180 Gallons
Per Hour.
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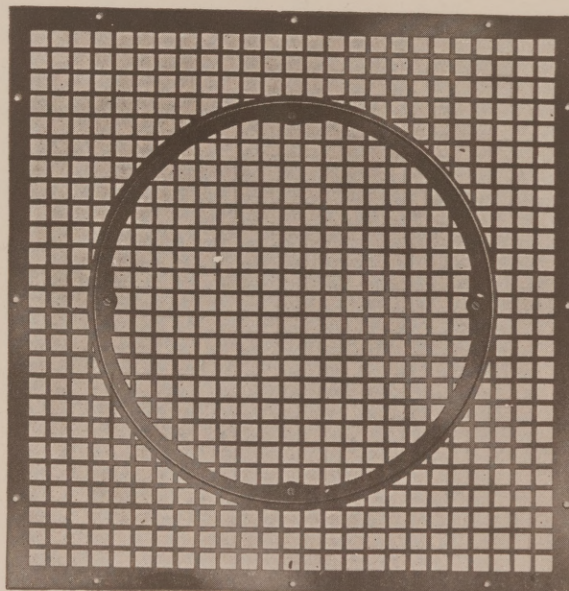
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Double Register Gratings for Pipeless Warm Air Heaters

Plain Lattice Design

WALWORTH DOUBLE REGISTER GRATINGS

are made substanti-
ally, with round
center for warm air
supply and square
cold air intake.



WALWORTH DOUBLE REGISTER GRATINGS

are made in five
sizes. We carry a
complete stock for
immediate ship-
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*Write us today for infor-
mation and prices.*

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Manufacturers

**WEST 27th STREET
CLEVELAND**

SPECIFY THIS TRADE



MARK: DEMAND IT

OAK FLOORS

(For Everlasting Economy)

Really, a handsome floor adds as much of the feeling of welcome, the sense of having arrived in a restful haven, as any single element in a room. OAK FLOORS rest much of their high repute upon their peculiar effectiveness in this regard.

Since, in addition, OAK FLOORS are most durable, are easily cleaned and are certainly not costly, why not specify OAK FLOORS in your churches? Where is their charm more desirable?

May we assist you in selecting the proper grade and finish? It will be a pleasure.

OAK FLOORING
MANUFACTURERS' ASSOCIATION
1020 ASHLAND BLOCK: CHICAGO:

Renewed Tungsten Lamps

10-15-25-40 watts—110 volts, 17c each
f. c. b. Danvers.

Renewed Carbon Lamps

20-30-60 watts—110 volts, 12c each
f. o. b. Danvers.

Send orders to local dealer or direct to

Boston-Economy Lamp Division

National Lamp Works of General Electric Co.
128 Maple St., Danvers, Mass.

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The Best Permanent Substitute for Tracing Cloth.
1—Very transparent. 2—Exceptionally strong. 3—Being rolled on a large core it will lay flat on drawing board to the last yard. Others to follow.

In rolls of full 20 yards; 30, 36 and 42 in. wide.
Sample from your dealer—or from the maker.

GEORGE VINCENT, 422 E. 53rd St., NEW YORK

MILES CONCRETE MACHINERY

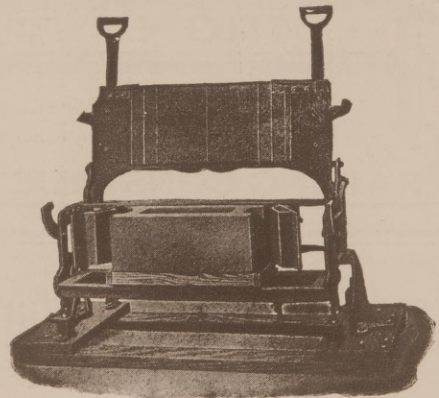
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Batch Mixers

No. 5 Miles Block Machines

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No. 5 Automatic Tampers No. 4 Automatic Tampers
Universal Adjustable Sill Cap and Step Molds.



We have devoted the past 24 years to the manufacture and perfection of our concrete machinery and fully guarantee same.

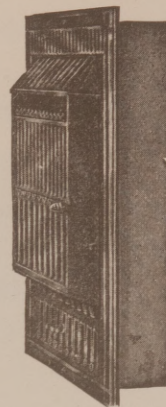
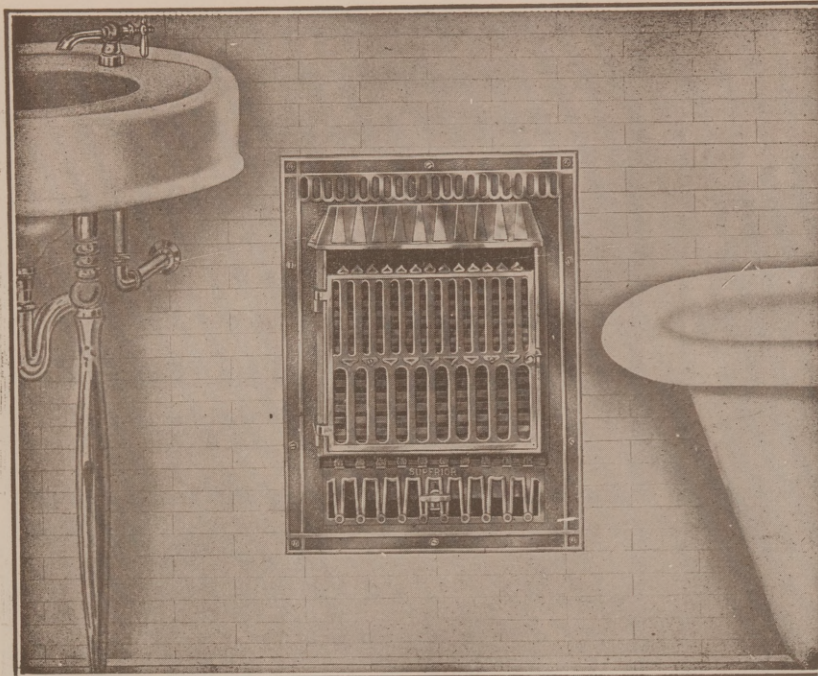
Write or wire for our catalogues and dealers proposition. It will be worth your consideration.

DEPT. 28.

The Miles Manufacturing Co.

JACKSON, MICH.,

U. S. A.



U. S. Pat. June 25,

1910

Side View

Side of Cast

Front:

14 ins. wide

18 ins. high

Size of Body

of Heater:

12½ ins. wide

16¼ ins. high

4¾ ins. deep.

For Natural and Artificial Gas

THE Superior bathroom heater differs materially from any other device for bathroom heating. The front is of Colonial design, cast iron heavily plated, which is fitted with a door for convenience in lighting without danger of being burned. It is constructed to be used in the regular wood partition, tiled or plastered wall of the bathroom and has the appearance of a hot air register, set 14 or 18 inches from the floor.

It is flueless and odorless, as the flames come in contact with nothing but air, (thereby eliminating asbestos and other artificial substances commonly used in all other types of heaters, which become soiled and unsightly.) Its construction is such as to make it entirely free

Superior Bathroom Heater in Use with Tiled Bathroom.

from any danger whatsoever from fire, the body of the heater being lined both inside and outside with heavy asbestos, as well as having a large circulating cold air space around the inner frame which contains the burner. The inner frame also is covered with heavy asbestos.

The burner, which is made of Imported Lava Tips, is fitted with an adjustable check for regulating the combustion on the different pressures of gas. No air mixer is used, as the gas comes in contact with the air through very small lava tips; it mixes and purifies itself, leaving no odor from the gas whatever. It is made so that the heat from the gas jet causes the air furnished to be drawn from the floor through the fender and pass up over the flame, discharging itself back into the room, thus creating a continuous circulation of pure air through the room at all times.

This heater is equipped with lower corrugated copper reflectors and an upper corrugated deflector, also, upper reflector and baffle plate on the cast door for directing the products of combustion back to the point where it comes in direct contact with the air drawn from the floor, which greatly purifies it. The deflector plate not only directs the heat, but hides the gas jets and reflects the light down upon the lower reflectors, giving a very luminous and pleasing effect. This method of heating a bathroom is not only convenient, but very economical and safe, doing away with the objectionable bathroom stove.

The Superior Bathroom Heater not only ornaments the bath-room handsomely but it quickly heats it to just the desired temperature at the least expense. By its use it is possible to bathe and complete the toilet in perfect comfort without firing an expensive furnace which too frequently destroys the delightful coolness so much appreciated in all other parts of the house during warm weather. In fact, it is a necessity in every up-to-date modern home.

Leading architects and designers throughout the United States and foreign countries always specify "Superior" Bathroom Heaters when the best is desired. The front is heavily plated and polished as handsomely as a watch case.

This heater is made for either outside or inside connection, and whenever neither kind is specified in the order, the kind for outside connection will invariably be sent, as that style is generally preferred when the gas line is not inside the wall. In plan for new house the pipe should be about 5 inches to the left of center of opening and come up just as high as the bottom of same, for convenience in setting.

FINISHES:—NICKEL, JAPANESE BRONZE, or BRIGHT BRASS.

Be careful to specify finish and to state whether outside or inside connection is wanted when ordering.

Complete with valve and adjustable check. Bright Brass, Nickel or Japanese Bronze Finish.

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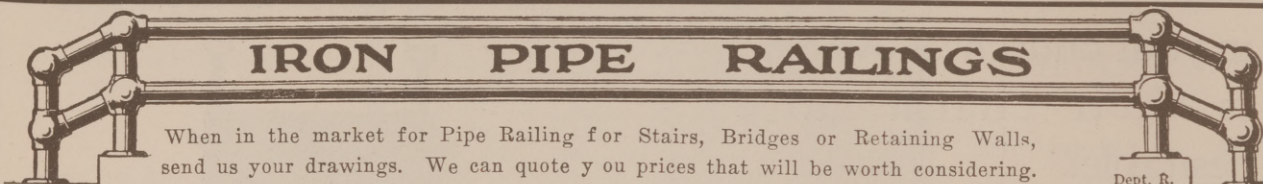
NO ASBESTOS

NO LARGE GAS BILLS

NO DANGER FROM FIRE

The Superior Manufacturing Company, N. S., Pittsburg, Pa.

General Offices and Factory: Corner Said and Magnolia Streets, North Side.



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When in the market for Pipe Railing for Stairs, Bridges or Retaining Walls, send us your drawings. We can quote you prices that will be worth considering.

Dept. R.

PIPE RAILING CONSTRUCTION CO., Long Island City, New York

Bedford Steam Stone Works

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INDIANA LIMESTONE

SAWED, PLANED, TURNED OR CUT

Estimates promptly furnished

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Wholesalers and Manufacturers

LONG LEAF YELLOW PINE
Timbers and Factory Flooring.

VALDOSTA, GEORGIA

Others Discuss Some Timely Topics

New Angle to Home Building Plan.

The Savannah, Ga. Press discusses the Home Building Plan from an entirely new angle which is worth considering. The Press says:

During the past year the domestic money order business at the Savannah postoffice increased in number of orders from 65,000 in 1918 to 91,000 in 1919, and in amounts from \$568,000 in 1918 to \$1,000,000 in 1919. Using approximate figures, as we are doing, this is 100 per cent, advance.

The bulk of this advance is represented in the earnings of men who have come to Savannah to work in the new industrial plants, chiefly the shipyards, that they are sending "back home" to their families. Why does Savannah not arouse herself to keep this surplus \$500,000 here, instead of letting it be sent away to make other cities prosperous?

The Savannah Press believes that with such a home building plan as Mayor Stewart advocates, something which would not only enable but attract the workers to build and own their home in Savannah, a large part of this money could be kept here and the men too. Show these men the opportunity and possibility Savannah offers them, and they will appreciate it.

In this little world, life is largely a matter of smiling upon those who smile upon us. Savannah should have an organization which will enable incoming industrials, and young men growing up here, too, to own their homes. This interest in their welfare would be most attractive to both classes to locate here. The returns would be enormous in the ultimate consideration of increased population, increased stable wealth, increased trading value and all these phases.

Here's Good Advice.

Building has again begun. Everyone who has been waiting for the war to end is beginning to see opportunity in the present. Prices of building materials are steady and are practically sure to remain so for some years to come, and all are realizing that now is the time to build.

Competition in building is especially brisk between city and country. During the war both have suffered because little building was done. In the cities, especially, the population needs have not been adequately cared for. On the farm the needs of increased production have not received the additional building that was necessary.

So now, all at once, country and city are rushing into the market to procure their necessary building supplies. Is there a sufficiency of building ma-

terials in the country to meet this demand? This is the question. Each day the demand grows stronger. The cities, in particular, are doing their best to get themselves supplied with materials.

Here is where the average man may lose out unless he acts quickly and makes his building arrangements at once. Delay for a few months, and just when you decide to have your building done you may have difficulty in getting your order filled. The best thing to do is to decide now the number and type of the buildings you want and give your order to a reliable firm to have it delivered as soon as possible and the buildings erected. Then, if there be a short delay, you will suffer no disadvantage or loss.

The point we want to make is that a few months from now there can be no assurance that building orders will be filled immediately after they are received. Get your buildings up now while a good supply of material is available, and provide against the time when you must have them.

Ventilighter SYSTEM

LIGHT—AIR NO GLARE STEEL FRAME CLOTH VANES
Keeps Out Heat—For Skylights, Windows and Sleeping Porches—
No Light Lost.
FACTS ABOUT VENTILIGHTERS



Warren & Wetmore, Architects.

Skylight VENTILIGHTERS in one of the class rooms of the Nautical College, Seaman's Church Institute of New York. They increase and diffuse daylight without glare from window or skylight; temper the solar rays or eliminate them; concentrate the light or reflect it to any desired point. The naturally lighter parts of the room are left well illuminated and hitherto useless space is made valuable. They insure perfect ventilation and promote sanitation.

They fit anywhere and are made in any size for skylights, windows, porches, etc. They are made in any shape for any opening, round, semi-circular, square, etc. Burglar or fire alarm wires, sprinkler pipes, other pipes or parts of building construction, even columns passing through them, do not interfere with VENTILIGHTER efficiency and VENTILIGHTERS will not interfere with them.

Send for our new catalog F.
LIGHTS VENTILATES SHADES PROTECTS
SIMON VENTILIGHTER Co., Inc.
101 Park Avenue New York City



THE H. B. IVES CO.

ESTABLISHED 1876

New Haven, Conn., U. S. A.

INCORPORATED 1900

Manufacturers of

BUILDERS' HARDWARE

HIGH GRADE WINDOW AND DOOR SPECIALTIES

Write for Illustrated Folder.

Pan American Congress of Architecture.

The press announces that the Association of Architecture at Montevideo in March. This congress was to have been held in 1916, but owing to the war had to be postponed. It will assemble all the architects of every country on the Continent, and is under the patronage of the resident of the Republic of Uruguay.

Atlanta's August Building Record.

The value of new construction permits in Atlanta for the month of August fell \$641,884 under July's record-breaking expenditure of \$1,534,388, but in consideration of the general unsettled labor conditions and other disquieting elements during the month and more especially of the Atlanta shopmen's strike which seriously interrupted the movement of freight during the month, the number of permits issued and the expenditure involved is considered very gratifying.

The number of building permits issued during August totalled 237 as compared with 165 permits issued for the corresponding month a year ago, while a total expenditure of \$802,504 for the month just passed compares splendidly with the aggregate expenditure of \$166,506 of August, 1918. Last year's total was due largely to war-time building restrictions. Nevertheless, last August's expenditure was the largest in the history of the city for that month at that time.

Assistant Building Inspector A. C. McDaniel states that the material improvement in the labor situation has about removed the fear and uncertainty and that the September building operations bid fair to equal the July building record.

How I Save On Roofing.

"Nearly every year I used to have an old shed or outbuilding that needed repairing," says A. C. Huffman of Indiana. "This was especially true of the roofs, which I noticed were the first thing to go. It seemed to me that I had more leaky roofs than any other man in the country, and I always had some extra expense in the way of roofing. But I have found a way to overcome this trouble and get my leaky roofs repaired at a much lower cost.

"If the building happens to be an old one, I

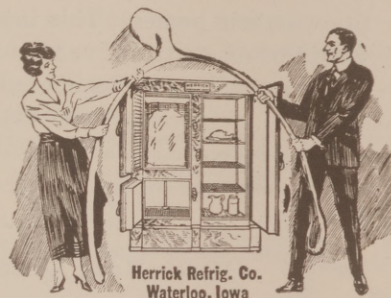
never go to the expense of putting on shingles or galvanized iron roofing, because they are too costly. The plain sheet-iron roofings that are not galvanized are not satisfactory in the way of service. After several years of experience with various roofings, I have discovered that the prepared roofings are the most serviceable of any, besides being much cheaper.

"When I apply this prepared roofing I never take the trouble to tear off the old roof first, because I have found it to be much easier and much more desirable to lay the new roofing right over the old one. I cut the roofing into strips, so they are convenient to handle, and I allow enough in the length so they can be turned down at the ends. I then cement them at the laps with roofing cement, and also nail wooden strips, called battens, over these laps, making them more solid."

To Builders and Contractors

The Herrick Outside Icing Refrigerator is one of the most popular refrigerators for modern residence use. It gets the ice in the house and keeps the ice-man out.

The



Herrick Refrig. Co.
Waterloo, Iowa
Your Biggest Wishes Answered!

Herrick Outside Icing Refrigerator

is winning praise everywhere. Hundreds of builders, contractors and architects are availing themselves of the Herrick Free Plan Service. Planning and making the outside icing openings right is important. Let us guide you.

Specify "Herrick" Refrigerators. They are sanitary, clean and economical. Perfect air circulation. Provide an even temperature and abundant pure dry air necessary to keep food sweet. Best for homes, apartments, stores, clubs, etc.

Write for Catalog SA. 918 with free blue prints of construction.

Herrick Refrigerator Co.

Waterloo, Iowa.

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Permanency—Quick Construction—Economy

are combined in

WHITTAKER HILL NOVACULITE



Permanency

The illustration shows a road laid 18 years ago and still in excellent condition.

Quick Construction

Whittaker Hill Novaculite is put on the road, leveled to

the desired thickness, rolled with a steam roller, and is ready for use.

Economy

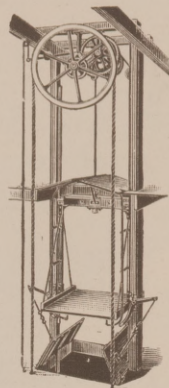
Note the simplicity of construction. Then note that not one cent of repairs has been spent on this 18-year-old road.

Write for our new booklet.

EGYPTIAN GRAVEL CO.

Railway Exchange Bldg.

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FOR ALL PURPOSES

DUMBWAITERS

SIMPLEX CHAIN HOISTS

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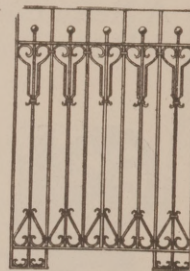
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Brass Rails

OF EVERY DESCRIPTION
FOR THEATRES, BANKS,
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Half the cost of oil paints

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Mark

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A flooring of superior merit, to be applied over wood, concrete, cement, or asphalt. Dries quickly and makes a sanitary, elastic, jointless flooring of unusual wearing qualities; guaranteed. Supplied in various colors; unequalled for alterations. Agents wanted. Your men can lay at good profit to you. Write today for samples and catalog. Also **EVERYTHING** in **ASBESTOS**.

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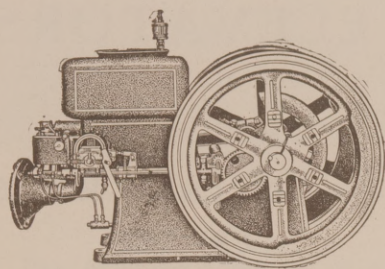
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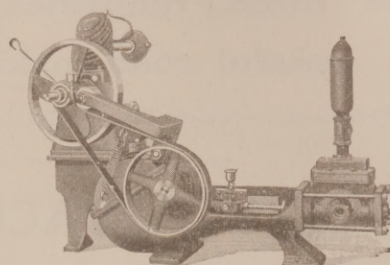


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Are Specified by
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wherever a good, high grade
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IF YOU HAVE A JOB WHERE WATER IS TO BE PUMPED USE A REECO SYSTEM

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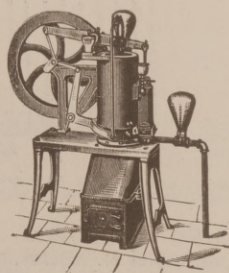
There's a Great Field for REECO Systems
IN THE SOUTH

Get better acquainted—Send for Bulletin B-4.

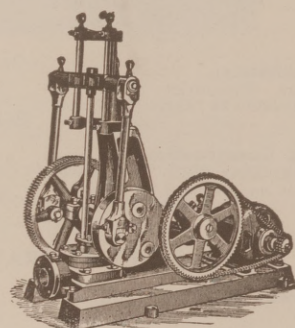
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WALDEN, N. Y.

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Reeco Ericsson Engine.



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Grates and Furnishings

Suggested settings for the newest designs
of andirons may be had upon request.
Write for Catalogue No. 32.

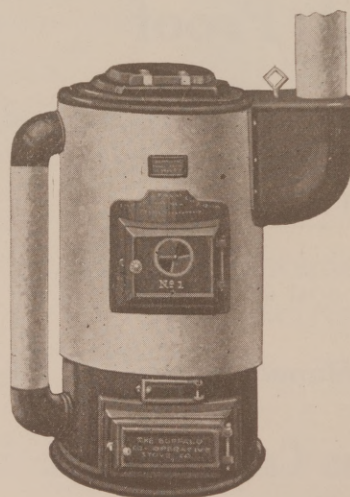
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QUICK TOILET FACILITIES

Ready for use just as soon as placed on the ground or job. No trenches to be dug, no plumbing to be done. Sanitary—Efficient—Economical.

THE SANOTYPE TOILET ININERATOR

Requires no fixtures. It is only necessary to make chimney or smoke pipe connection. Simple to install and operate. No chemical required.



Operates with wood, coal, or coke. All refuse and waste is reduced to clean ash.

The Sanotype is used the same as an ordinary water closet. It does not have to be fired until it is filled with refuse. No odor from accumulating waste.

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The Wood Mosaic Kind

For every home—Old or new. Can be installed by our mechanics. Our 5-16" flooring can be laid in old or new houses. We make all kinds and thicknesses; Wood-Carpet, strips, Plain and Ornamental Parquetry, Tongue and Groove Flooring.

Send accurate measurements of rooms for colored sketch with exact estimate of cost of the flooring required. Instructions for laying and finishing accompany all orders shipped.

Send for free catalog in natural wood colors.

Wood-Mosaic Company
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Not the most satisfactory, the most beautiful, biggest value—because we say so, but all these qualities because—

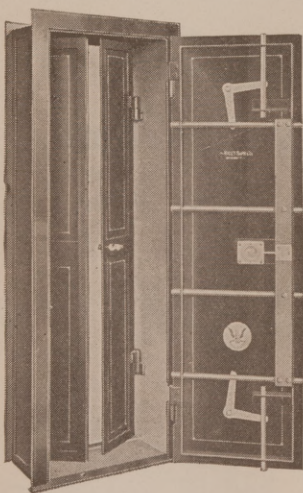
We buy the raw lumber from veneer mills, which enables us to obtain the choicest flitches. Our lumber is not resawed. Resawed material cannot be kiln dried successfully. And we guarantee our stock to be thoroughly kiln-dried.

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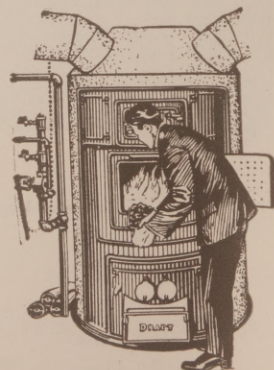
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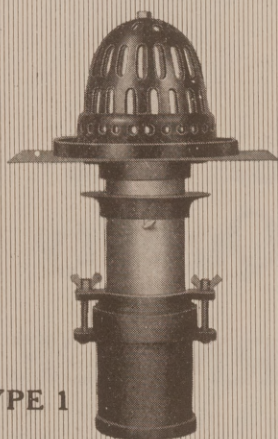
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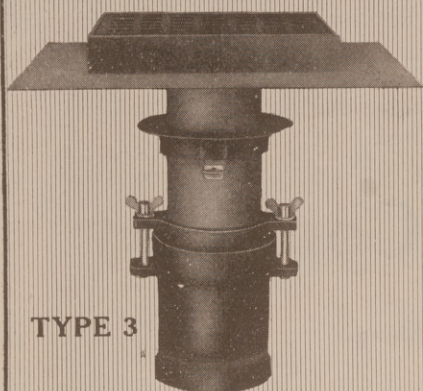


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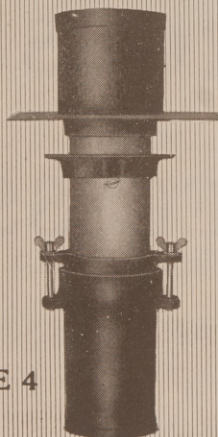
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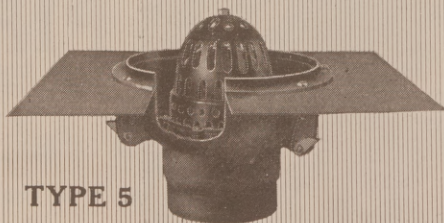
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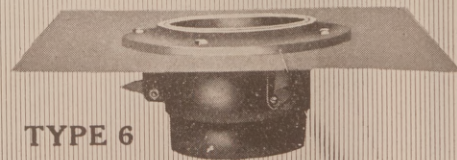
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The leader lines in the building continually push and pull, expanding and contracting with every change of temperature, or because of shrinkage, settlement or vibration, but the Holt Expansion Joint always remains flexible and watertight, because it has a range of movement of from 1½ to 3 inches, according to type of connection used and construction of leader lines and roof decks.

Holt Connections are positive safeguards against the most severe cases of shrinkage, settlement and vibration. Heavy cast brass, copper and iron are their principal components. They are as permanent as Barrett Specification Roofs, with their record of unequalled service. They are, in fact, "partners in good standing."

Use Holt Connections on any type of roof

Holt Connections are made in a variety of types and sizes for *every kind of roof*. They meet every need for a high-grade, dependable connection for roof leaders, vents, pipes, braces or flag poles. *They have never failed.*

Send for details and full Specifications

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No. 1

NEW BUILDINGS FOR OLD BANKS

What They Have Done to Bring New Business and Increase Deposits.
By Warren Spencer.

THERE is not a banker in the country who is not "all ears" when any one can suggest a legitimate way for increasing and getting new accounts. Within the last few years banks have awakened to the value of constructive advertising—advertising that "sells" the services and accommodations of the banks in the same fashion that it sells high-priced motor cars or low-priced soap. It is all evidence of awakening on the part of bankers to the hidden opportunities they have; in realizing that they have something to advertise beyond a statement of their resources and a list of the personnel.

"Boiled down to one word, however," declares H. T. Underwood, the bank building specialist, "the one super-factor that banks have to sell is confidence. A bank may be stronger than it looks," Mr. Underwood says, "but it would be hard to convince the 10,000 John Joneses who deposit a few dollars a week (and who, in sufficient numbers, are the best kind of customers,) that a bank which does not look strong—is strong."

I am indebted to Underwood, who is president of the Underwood Contracting Corporation of New Orleans, the largest firm of bank builders in the South, for certain of the facts in the following story, which tells how one bank, on the down grade, found itself and not only rehabilitated itself in public favor, but won a vast amount of new business.

The bank in question was in one of the Southern states. It had age, prestige, a strong board; it had weathered all financial storms and was highly regarded generally. Yet, for the past five years its percentage of increased business was so far below normal as to cause considerable worry.

The chairman of the board, (the old president, retired) having few active duties, decided on his own hook to make a little investigation. He felt now that he was out from under the burden of daily detail that he could get a new perspective, almost an outsider's point of view.

He first decided to look to his competitors. And inside of a day's time he found that the bank that had scored the greatest increase in deposits was

another old but progressive institution that occupied a dignified yet monumental building, which had been completed about a year before.

Mr. Chairman did not at first connect up his rival's new building with its increased business, until in the Banker's Club at luncheon the next day he bluntly asked the president to what one factor he attributed the growth and development of the bank.

Almost without hesitancy, the other man said, "Our new building."

The Chairman took occasion to look over his own structure, inside and out, that same day, and was forced to admit that there was room for improvement. But before making any recommendations to the board he undertook to gather some data for presentation. His research concerned itself with banks that had built new buildings within the past year. He wrote each of them and asked if their deposits had increased above the average ratio since the occupancy of their new buildings, and if they considered that the new buildings had a part in bringing about such increase.

The answers astonished him. Practically all of the banks reported that deposits had increased, enclosing statements of different dates to show how much the increase was. Four bankers set forth in letters the amount of increase.

No. 1. New building cost one-half million dollars. Deposits increased \$3,000,000; had been \$6,500,000, now were \$9,500,000.

No. 2. \$6,000,000 increase in deposits; 100% growth from \$6,000,000 to \$12,000,000.

No. 3. Deposits increased \$1,500,000.

No. 4. Forty percent increase.

All of the banks gave a large measure of credit to the fact of having new, up-to-date quarters. One banker declared that the value of his new building could not be estimated in dollars and cents and that the new building was the best advertisement the bank could have.

With this concrete evidence before him the Chairman became convinced that, all things considered, the bank was housed in new, up-to-date quarters

was the one that was most likely to secure the greatest share of new business.

There was, however, a note in one of the letters that made him pause. A friendly banker wrote:

"This is the second building operation I have gone through in ten years. After the first I vowed I would never build again. But when I moved over to my new connection, crowded and antiquated quarters made it necessary to provide for a new home. During the construction of the second building I never lost a pound in weight, nor an hour's sleep. Everything went along as smooth as clock-work.

"The difference was this: The first time I built, we carried out the work on a competitive basis. First we had a competition with architects and had to decide which was the best of eight or ten different schemes. We thought we selected the best of the lot, but after we finished we found we had bought a pretty picture. We thought—and had been told—that our building would not cost over \$150,000. We believed that this meant a building complete. We did not discover until later that most of the equipment, all of the furniture and hangings, were not included in the estimate. To make a long story short, the job was one of bickering from start to finish, and in the end it cost 50% more than we had any idea of spending.

"That job was a revelation, and when I got into the next one I tried to find if there was not some way of avoiding that unpleasant and unfortunate situation. Then I learned that there were building organizations that specialized in planning, building and equipping banks. These concerns do all of the work under one contract. They plan every detail in advance so you know what you are to get and know that not only everything that you want will be included but all those new improvements which their engineers know about, will be included too. As a matter of fact, the best way I can describe those fellows is to say they actually work so closely with you that they become a part of the bank's organization—a practical building committee, I might say."

The friendly banker enclosed a list of the building organizations specializing in bank work and the Chairman wrote each of them to send him full details regarding their propositions. Then when he had all the information he needed, he proposed to the board that the bank should have a new building. He was surprised when they shouted their approval, and he did not even have a chance to use his fine ammunition. He would have been shocked had he heard the youthful president remark to the cashier after the meeting:

"Lord, I've been waiting to spring this new building proposition for a year, but I was afraid the

old man would raise a kick. Can you beat it!"

But they made the Old Chairman of the Board, Chairman of the Building Committee, and in the end they got a building that everybody refers to as a lasting monument for the old Chairman as well as for the bank. It was a million dollar advertisement, but one of those advertisements that rank as investments and which pay a big return on the money spent.

Contributes Service to Good Cause.

It is announced that the Rotarians of Georgia have accepted, with an expression of sincere thanks, the offer of Mr. G. Lloyd Preacher in the Martha Berry school movement.

It will be recalled that the Rotarians of the state have decided to erect Rotary Hall at the school—and that a fund of \$10,000 is to be set aside by them for that purpose.

When the enterprise was decided upon, Mr. Preacher proffered gratis his services and the services of his Augusta and Atlanta staffs to prepare the plans for the structure and to supervise the construction.

The Augusta Rotary club is greatly pleased that this significant contribution to Rotary Hall has been made by an Augustan and by one of their organization.

The service, in dollars and cents, represents between \$600.00 and \$1,000.00. It is a valuable gift to a meritorious cause, and Mr. Preacher's kindness in the matter is deeply appreciated by the school authorities, as well as by the Georgia Rotarians.

Norwegian Building Materials Congress.

The Norwegian Association for Dwelling Improvements is planning to hold a building-material congress, probably in January, 1920 at Christiania. At this meeting lectures and demonstrations on plans and methods will be given, and in connection therewith will also be held an exhibit of building materials and home equipment. It is expected that nearly all the communes and building associations of Norway will send delegates to this meeting. The plans for the exposition of building materials are drawn on broad lines and provide the same rights and privileges to foreign firms that are granted to Norwegian exhibitors.

The announcement of the forthcoming congress is arousing much interest in building circles because nearly every city in Norway is facing a housing shortage and therefore it is felt that the near future must provide a period of active construction to meet the pressing needs.

News of Street and Road Building Activity in the South Briefly Told

NEVER before in the history of the country has the South seen such active preparations being made and now underway in some parts for permanent road building of all sorts. For years the South has lagged in this respect, but the people are now speaking in no unmistakable terms, through the ballot, that they must have bond issues to carry on the good work.

This magazine is giving as briefly as it can the news of this activity, strictly confining itself to the South, though all states in all parts of the country are waking up.

Road and Street Construction.

Centerville, Ala.—Barbour County Commrs.; 3 mi. Federal-aid road; \$28,711; W. S. Keller, State Highway Engr., Montgomery, Ala.

Florence, Ala.—Lauderdale County Commissioners; section Florence-Huntsville road; \$20,588; W. S. Keller, State Highway Engr., Montgomery, Ala.

Mobile, Ala.—Mobile County Commrs.; roads; vote Nov. 3 on \$50,000 bonds.

Batesville, Ark.—Independence County Commrs., Road Improvement Dist. No. 1, J. C. McGill, Secy.; 20 mi. gravel road; bids opened Oct. 14; Dickinson & Watkins, Engrs., Little Rock, and Batesville, Ark.

Boonville, Ark.—Logan County Commr. Road Improvement Dist. No. 1, Geo. A. Hall, Secy., Paris, Ark.; 7.4 mi. road; \$35,350 cu. yds. grading; bids until Oct. 20; Carter & Knoch, Engrs., 803-7 A. O. U. Bldg., Little Rock, Ark.

Earle, Ark.—Commrs. Earle Curb and Sidewalk Dist., Albert Horner, Secy.; 116,000 sq. ft. sidewalk; 36,000 lin. ft. curb and gutter; bids opened Oct. 15; Joseph E. Fry, Engr.

Little Rock, Ark.—Little Rock-Holt Springs Highway, W. S. Sorrels, Prest.; 10.7 mi. concrete curb on Little Rock-Hot Springs Highway; bids opened Oct. 10; Lund & Hill, Engrs., 527 Southern Trust Bldg.

Perryville, Ark.—Perry County Commrs., Road Improvement Dist. No. 1, A. F. Leigh, Commr.; 26¼ mi. road; 96,000 cu. yds. grading; bridges and culverts; \$125,000; G. C. Williams, Contr., Perryville, Ark.; Parkes Engineering Co., Engr., Pine Bluff, Ark.

Dade City, Fla.—Pasco County Commrs.; asphalt and clay roads; vote on \$750,000 bonds.

Fort Pierce, Fla.—St. Lucie County Commissioners; roads; vote on \$300,000 or \$350,000 bonds.

Umatilla, Fla.—Town; 1½ mi. paving on Main St.; \$35,000; Findley-Methods, Contr., Jacksonville, Fla. Address The Mayor.

St. Petersburg, Fla.—City Comsn.; widen streets, sidewalks, etc., on extension of Second Ave.; vote Nov. 12 on \$10,000 and \$35,000 bonds.

Columbus, Ga.—Committee on Streets and Sewers, M. M. Moore, Clerk; pave 30,000 sq. yds. streets with concrete or brick; bids opened Oct. 15.

Decatur, Ga.—De Kalb County Commrs.; roads; voted \$750,000 bonds.

Monroe, Ga.—Walton County Commrs. Roads and Revenues, T. C. Aycock, Chrmn.; 8.2 mi. sand-clay road on Monroe to Jersey road; \$46,145.80; Stanley & Singer Contracting Co., Contr., LaFayette, Ala.; Gordon W. Darden, Engr., Monroe, Ga.

Savannah, Ga.—City; granite street curbing; Charles M. Maclean & Co., Contrs.

Brandenburg, Ky.—Meade County Commrs.; roads; vote in Nov. on \$200,000 bonds.

Madisonville, Ky.—Hopkins County Commissioners; highways; vote Dec. 1 on \$500,000 bonds.

Prestonburg, Ky.—Floyd County Commrs.; Old Dominion Highway; voted \$200,000 bonds.

Abbeville, Va.—Vermilion Parish Police Jury; roads in 8th Ward; voted \$350,000 bonds.

Baton Rouge, La.—East Baton Rouge Parish Police Jury, F. A. Woods, Secy.; State highways; vote Oct. 14 on \$350,000 bonds; roads in Dist. No. 9; vote Oct. 21 on \$40,000 bonds.

Lake Charles, La.—Calcasieu Parish Police Jury; Vinton-Orange Highway; voted \$125,000 bonds; Federal aid.

Monroe, La.—Ouachita Parish Police Jury; roads; contemplate voting on \$1,000,000 bonds.

Monroe, La.—City; street paving, waterworks, sewerage system, etc.; contemplate voting on \$1,500,000 bonds. Address The Mayor.

Monroe, La.—City, Arnold Bernstein, Mayor; paving, improving streets, etc.; vote Nov. 18 on \$498,000 bonds; Walter G. Kirkpatrick, Consult. Engr.

Rayville, La.—Richland Parish, Police Jury; roads; voted \$1,000,000 bonds; \$200,000 Federal aid.

Vidalia, La.—Concordia Parish Police Jury; let \$100,000 contract for 8 mi. road from Ferriday via Lake St. John to Tensas Parish line; surveys completed for 16-mi. road from Ferriday to Frogmore; \$135,000; plans prepared for highway from end of Concordia Rd. via Lake St. John through Tensas Parish to St. Joseph; bids at office State Highway Engr., New Orleans, until Oct. 27; will have surveys made for road at Wild's Station, along Black River, and another from Vidalia to Deer Park; expend \$1,000,000 for road construction, including Federal aid.

Winnsboro, La.—Franklin Parish Police Jury;

roads; \$500,000 including Federal aid.

Annapolis, Md.—State Roads Comsn., 601 Garrett Bldg., Baltimore; .59 mi. concrete highway between Benfield and Seven Cross-Rds.; Anne Arundel County, Contract No. AA-16; Federal-Aid Project No. 36; bids until Oct. 21; changed date from Sept. 30.

Baltimore, Md.—Board of Awards; cement-concrete footways on North Ave. bridge; 3730 sq. yds. cement-concrete paving; \$6457.90 available; John E. Stansbury, Contr., 2852 Pennsylvania Ave.; Geo. F. Wieghardt, Highways Engr.

Baltimore, Md.—Board of Awards; sheet asphalt paving on Appleton St.; 1389 sq. yds. sheet asphalt, 1514 cu. yds. grading; \$5739.52 available; P. Flanigan & Sons, Contrs., Harford Ave. and B. & O. R. R.

Cumberland, Md.—State Roads Comsm., 601 Garrett Bldg., Baltimore; concrete roads with asphalt top; P. Flanigan & Sons, Contrs., Harford Rd. and B. & O. R. R., Baltimore; L. L. Downey, Engr., Cumberland, Md.

Frederick, Md.—Frederick County Commrs., Eugene H. Albaugh, Clerk; 1.99 mi. road along Harmony Rd.; bids until Oct. 27.

Leonardtown, Md.—State Roads Comsn., 601 Garrett Bldg., Baltimore; 5.86 mi. gravel highway from State Rd. near Great Mills to Millstone Landing; St. Mary's County, Contract No. SM-12; Federal-Aid Project No. 32; bids until Oct. 21; changed date from Sept. 30.

Oakland, Md.—Garrett County Commrs., W. G. Meyers, Clk.; 2 mi. State-aid highway along Bear Creek from Friendsville toward Cove; bids until Oct. 20; changed date from Oct. 6.

Salisbury, Md.—State Roads Comsn., 601 Garrett Bldg., Baltimore; concrete roads; \$55,892.80 available; Joseph Dainto, Contr., Martinsburg, W. Va.; P. E. Burroughs, Engr., Salisbury.

Belzoni, Md.—Humphreys County Commissioners; roads and bridges; voted \$150,000 bonds.

Canton, Miss.—Madison County Commrs.; roads; voted \$250,000 bonds; Federal aid.

Cleveland, Miss.—Bolívar County Highway Commissioners, Shaw Separate Road Dist.; 4.5 mi. State trunk road between Clarksdale and Greenville, Federal Aid Project No. 81; 60,000 cu. yds. grading, 4080 cu. yds. gravel, 23,600 sq. yds. concrete pavement; bids until Oct. 24; Xavier A. Kramer, State Highway Engr., Jackson, Miss.

Columbus, Miss.—Lowndes County Highway Commissioners of Pickensville Road Dist.; 7.3 mi. State trunk road between Birmingham and Columbus, Federal Aid Project No. 21; 42,000 cu. yds. grading; bids until Oct. 20; Xavier A. Krammer, State Highway Engr., Jackson.

Greenville, Miss.—City, Guy Drew, Clk.; 2½ mi. concrete street paving on Washington, Main and Broadway Sts., \$150,000; Cahaba Healy Constr. Co., Contr., Meridian, Miss., and Birmingham, Ala.

Indianola, Miss.—Sunflower County Commissioners; concrete highway in Fifth Dist.; voted \$400,000 bonds.

Meridian, Miss.—Lauderdale County Commissioners; roads in Dist. 3; vote Oct. 20 on \$75,000 bonds.

Pascagoula, Miss.—City; pave Delmas Ave. Address The Mayor.

Quitman, Miss.—Clarke County Commrs.; 22 mi. roads; \$65,000 bonds.

Shaw, Miss.—City; 1891 sq. yds. concrete paving; bids opened Oct. 10; Geo. H. Stephens in charge.

Tupelo, Miss.—Lee County Highway Commr., Third Road Dist.; 16 mi. State trunk between Birmingham and Memphis, Federal Aid Project No. 32; 110,000 cu. yds. grading, 13,000 cu. yds. gravel; bids until Oct. 17; Xavier A. Kramer, State Highway Engr., Jackson.

Bloomfield, Mo.—Stoddard County Commissioners; roads in Caster Township; voted \$95,000 bonds.

Fredericktown, Mo.—Madison County Commissioners; 50 mi. State Highways from St. Francis county line to Wayne County; \$455,000; also 250 mi. turnpike roads.

Jackson, Mo.—State Highway Dept., Jefferson City, Mo.; 32 mi. concrete road on Kings Highway; \$102,530.

Marble Hill, Mo.—Bollinger County Commissioners; roads; voted \$350,000 bonds.

Mexico, Mo.—Audrain County Commrs.; roads; defeated \$1,000,000 bond issue.

New Madrid, Mo.—State Highway Dept., Jefferson City, Mo.; 19.5 mi. gravel road.

Pineville, Mo.—McDonald County Commrs.; roads in Anderson Special Road Dist.; voted \$20,000 bonds.

Popular Bluff, Mo.—Butler County Commissioners; 150 mi. gravel highways and bridges; \$10,000,000 available in 3 years; bids about March, 1920; E. C. Nickey, Highway Engr. Lately noted voting \$200,000 bonds.

Popular Bluff, Mo.—City, Grant Davidson, Clerk; grade, pave and curb Elm, Kinzer Lester, Popular and other streets; bids until Oct. 20; E. C. Thomas, City Engr.

St. Joseph, Mo.—State Highway Dept., Jefferson City, Mo.; 20.7 mi. concrete roads.

St. Joseph, Mo.—City; repave with asphalt 6th St.; Land Construction Co., Contr.

Asheville, N. C.—Buncombe County Commissioners, B. A. Patton, Chrmn.; 1¼ mi. macadam paving on Asheville-Black Mountain Highway; curbing; let contract at \$202,181 to Asheville Paving Co. for paving, and H. A. Wells, at \$81,699, for grading.

Ashboro, N. C.—City, J. A. Spence, Mayor; 40,000 sq. yds. sheet asphalt, bitulithic and Topeka paving; \$165,000; Adams, Evans & Co., Contrs., 30 Church St., New York; A. E. Taplin, Engr., High Point, N. C.

Greensboro, N. C.—Guilford County Commission-

ers; $4\frac{1}{2}$ mi. road between Greensboro and Gibsonville.

Kings Mountain, N. C.—City; 25 blocks asphaltic concrete paving; \$150,000; Noll Construction Co., Contr., Chattanooga, Tenn.; Bebee & Tull, Engrs., Spartanburg, S. C.

Mars Hill, N. C.—Town, J. P. Smith, Secy.; improve streets and sidewalks, establish sewer, water, light and power systems; \$10,000 bonds.

Raleigh, N. C.—State Highway Comsn.; 7 mi. road from Raleigh to Cary; bids until Oct. 16.

Spring Hope, N. C.—City, P. C. Dillard, Mayor; sand-clay streets, granolithic sidewalks; \$20,000; bids about spring, 1920; John J. Wells, Engr., Rocky Mount, N. C.

Haskell, Okla.—Town; grade, curb and drain 50,000 sq. yds. brick pavement; bids until Oct. 20; Ber- man & Wilson, Engrs.

Oklahoma City, Okla.—Oklahoma County Commissioners; hard-surfaced roads; contemplate \$500,000; Federal aid.

Stillwater, Okla.—Board of Agriculture, J. A. Whitehurst, Prest., Capitol Bldg., Oklahoma City; 3400 sq. yds. paving on campus of Agricultural and Mechanical College; 3200 lin. ft. curb; 650 lin. ft. storm sewer; W. C. Shaw, Contr., Tulsa, Okla.

Anderson, S. C.—Anderson County Highway Commission, W. C. Austin, Secy.; highways and bridges; 50 mi. grading, top-soil or sand-clay roads; 20-ft. roadway; bids until Oct. 28; W. A. Sanders, Engr.

Anderson, S. C.—Anderson County Highway Commission, W. C. Austin, Secy.; 75,000 sq. yds. asphaltic concrete paving, 50,000 lin. ft. concrete curb; Southern Paving & Construction Co., Contr., Chattanooga, Tenn.; W. A. Sanders, Engr.

Orangeburg, S. C.—City, W. A. Livingston, Mayor; 10 mi. street paving and 25 mi. sidewalks; vote Nov. 4 on \$610,000 bonds.

Orangeburg, S. C.—Orangeburg County Commrs.; roads, \$1 000 000: contemplated.

Benton, Tenn.—Polk County Commrs.; roads; voted \$200,000 bonds.

Blountville, Tenn.—Bureau of Roads, J. T. Bul- len, Dist. Engr.; $12\frac{1}{4}$ mi. Bristol road between Bris- tol and Mountain City; bids until Oct. 22.

Halls, Tenn.—City, W. N. Beasley, Mayor; 38,672 sq. ft. 4-ft. concrete sidewalks; bids until Oct. 23; Blakeman & Brayton, Engrs., Dyersburg, Tenn.

Knoxville, Tenn.—Knox County Commrs.; Mas- cot-Maryville Highway: voted \$150,000 bonds.

Lewisburg, Tenn.—Marshall County Commission- ers; roads; voted Dec. 6 on \$200,000 bonds.

Murfreesboro, Tenn.—Rutherford County Court; complete Dixie and Memphis-to-Bristol highways in county; issue \$200,000 bonds; State and Government each to contribute \$200,000 additional.

Nashville, Tenn.—Tennessee State Highway Com-

mission, W. P. Moore, Cr. Engr., 327 7th Ave., Nash- ville; decided to construct highways instead of let- ting to bidders; proposals too high; plans are for all counties.

Somerville, Tenn.—Fayette County Commission- ers; hard-surfaced roads; vote on \$500,000 bonds; State and Federal Aid, \$1,000,000.

Coleman, Tex.—Coleman County Commrs., L. G. Mathews, County Judge; roads in Precinct No. 1; \$500,000; General Engineering Co., Engr., Brown- wood, Tex.

Denton, Tex.—City, H. V. Hennen, Mayor; pav- ing, curbing and storm sewers; \$300,000; J. M. Gurley, Contr., Denton; Koch & Fowler, Conslt. Engrs., Dallas, Tex.

Rockwall, Tex.—Rockwall County Commrs.; 13- 36 mi. concrete brick road, grading and concrete drainage structures; \$18,000; T. J. Worthington, Contr., Corsicana, Tex.; Julian Montgomery, Engr., Rockwall, Tex.

Seguin, Tex.—Guadalupe County Commrs., J. B. Williams, County Judge; repair 3 mi. post road; has let contract.

Sulphur Springs, Tex.—City, J. Bert Thomas, Mayor; 2.8 mi. paving; gravel with bituminous top, concrete curb and gutter; \$28,000; Jack Ardis, City Engr.

Upland, Tex.—Upland County Commrs.; roads; vote on \$40,000 bonds.

Waxahachie, Tex.—City; street paving, water and sewer extensions, school building and public- park improvements; voted \$295,000 bonds. Address The Mayor.

Danville, Va.—City, J. O. Margruder, City Engr.; 2400 sq. yds. brick pavement, 16,000 sq. yds. concrete pavement.

Norton, Va.—City; improve Kentucky Ave.; grade 7th and 9th Sts.; \$10,000. Address The May- or.

Petersburg, Va.—Street Committee, E. P. Good- wyn, Clerk; 5000 sq. yds. concrete roadway; 5,000 to 10,000 lin. ft. curb and gutter; 10,000 to 15,000 sq. yds. concrete sidewalks; bids until Oct. 22; R. D. Budd, Engr.

Richmond, Va.—Dept. Public Works, Chas. E. Bolling, Director; 19,000 sq. yds. asphaltic concrete or bitulithic paving; bids opened Oct. 15.

Warrenton, Va.—Virginia State Highway Com- missioner, G. P. Coleman, Richmond; $5\frac{1}{2}$ mi. water- bound macadam road between Warrenton and The Plains; Federal-Aid Project No. 53, section Federal- Aid Project No. 19; bids until Oct. 21.

Wise, Va.—Wise County Supvrs.; grade and drain 55,000 cu. yds. Roaring Fork road; \$75,000; Sneed & Tringle, Contrs., Norton, Va.; R. H. Bruce, County Engr., Norton, Va. Lately noted inviting bids.

Beckley, W. Va.—Raleigh County Commrs.; roads in Clear Fork Dist.; vote on \$140,000 bonds.

Fayetteville, W. Va.—Fayette County Commissioners, R. J. Stegall, Clerk; surface 7 mi. road in Falls Dist.; Charleston Concrete Construction Co., Contr., Charleston, W. Va.; J. K. McGrath, Road Engr.

Grafton, W. Va.—Taylor County Commrs.; 1.5 mi. Northwestern turnpike.

Madison, W. Va.—Boone County Commrs.; roads in Sherman Dist.; voted \$200,000 bonds; to invite bids for grading and draining 5 mi. Madison-Foster road.

Moundville, W. Va.—Marshall County Commrs.; 1½ mi. Narrows Rd.

Princeton, W. Va.—Mercer County Commrs., Lowry G. Bowling, Clerk; roads in Robinson Dist.; contemplate, \$55,000 bonds.

Spencer, W. Va.—Roane County Commrs.; Spencer Rd.

Warwood, W. Va.—Town, C. H. Dowler, Mayor; pave and curb Warwood Ave., 8th and 17th Sts., and lay sewers; bids opened Oct. 9; Koller & Conrad, Engrs., Schmulbach Bldg., Wheeling, W. Va. Lately voted bonds.

Wayne, W. Va.—Wayne County Commrs.; bridge abutments on Armilda-Echo Rd.; \$7,950; has let contract; to invite bids for grading and draining 7 mi. Wayne-Kenova Rd.

Wheeling, W. Va.—City, H. A. Conrad, City Engr.; street improvements; vote on \$1,000,000 bonds.

Winfield, W. Va.—Putman County Commrs.; roads in Scott and Union Dists.; voted \$175,000 bonds.

Savannah Building to \$2,000,000 Mark.

Building permits in Savannah, Ga., for the nine months of the year aggregated \$1,232,140, as compared with \$214,620 for the same period last year. It is estimated that the total permits for the year will run about \$2,000,000 as one permit of \$400,000 will be issued next month.

So great has been the increase in building in the last few months, both as to the number of permits issued and values represented by the structures that the records of several years are broken.

For the first nine months of the year the value represented in building operations were five times as much as for the same period last year. With those figures as a basis, it is estimated that building operations for the year will run close to \$2,000,000 in value.

July, August and September have all been unusually heavy months, July, leading the three with building values of \$384,025. Since the present building inspector, John R. Eason, has been in office, a

period of six and a half years, this is the largest figure he has recorded for a single month. In his carefully kept record books, the building operations in Savannah month by month and year by year are presented and may be compared.

His report for September presented to Mayor Stewart yesterday showed 78 permits issued as against 19 in September, 1918, and values approximating \$228,490 as against \$11,135 for September, 1918.

While the decrease last year is easily accounted for by the war conditions prevailing and the fact that construction of all kinds had practically ceased, the war does not account altogether for the expansion of the building trade here, part of it being undoubtedly due to the normal growth of the city. The contrast is more striking because the inactivity of building during the war period makes extraordinary production now a necessity.

If estimates as to building operations this year are correct they will not run very far above 1912, when values approximated \$1,995,000. In 1913, however, they reached only \$1,227,000. From then on there is a steady decline until January 1919, when conditions resulting from the cessation of the war began to make themselves felt.

September Building at Jacksonville, Fla.

The report of the city building commissioner for September, 1919, at Jacksonville, Fla., shows that the total amount of money represented by the building permits issued was \$377,380, as against about \$77,000 for the same month in 1918.

The report is as follows:

Building permits were issued for new buildings and repairs and alterations to old buildings as follows:

| | Valuation |
|------------------------------------|-----------|
| 18 New frame buildings | \$ 97,350 |
| 11 Old frame buildings | 14,113 |
| 2 New brick buildings | 30,400 |
| 14 Old brick buildings | 79,300 |
| 3 Old stone building | 10,500 |
| 1 New stone building | 2,000 |
| 1 Galvanized iron building | 650 |
| 6 New brick veneer buildings | 42,000 |
| 2 Old brick veneer buildings | 4,200 |
| 1 Corrugated iron building | 500 |
| 1 Brick and tile building | 70,000 |
| 1 Concrete block building | 1,800 |
| — | — |
| 61 Total number of buildings. | |
| Total | \$352,813 |
| Miscellaneous permits | \$ 24,567 |
| — | — |
| Grand total valuation | \$377,380 |



W. L. STODDART,

Of New York City, the architect who designed the hotel soon to be erected at LaGrange, Ga.

This Hotel of Modern Design.

The above picture is of the proposed plan of a modern hotel to be erected at LaGrange, Ga., from a drawing made by Architect W. L. Stoddart, of New York City. Cut of building through courtesy of LaGrange Reporter.

This hotel will face Main street, with a number of large ground-floor storerooms on the left. At the extreme left is an arcade entrance, leading to a theater-auditorium and several small shops in the rear. At the right, on Depot street, there are other store rooms on the lower street surface and a terrace even with the ground floor. With store rooms, shops, a theater and other features embraced in the hotel building.

Oklahoma City Concrete Dam.

Probably more justification can be found for spending large sums of money to develop ample city water supplies than for any other municipal work. Quality supply is absolutely essential to public health, and water in sufficient and unfailing quantities is necessary for fire protection. For large growing cities an impounding reservoir and dam are usually required. Where a natural reservoir can be had merely by building a dam, the greatest economy for the entire construction will rest largely with the dam itself, and the adoption of that type of dam best suited to the topography and foundation conditions and availability of materials will largely govern the economy of the entire development.

Concrete has been extensively used for dams, some of them being the highest and most massive in the world. For conditions where a dam of relatively small length is required and where the ends of the structure may rest upon solid rock, the simple arch type of reinforced concrete dam will usually prove most economical. For locations requiring a long and comparatively low dam, two types have been developed that have been found economical and well adapted to practically all conditions of foundation, flood control, rapidity of construction, economy and other necessary considerations.

The multiple arch type consists of a series of arches with inclined axes. The thrust of the arches is taken by buttresses spaced from 30 to 50 feet apart, braced by horizontal struts in continuous lines. This type is especially adapted to locations where foundation conditions require the buttresses to be as far apart as practicable. The buttress and slab type consists of reinforced concrete slabs in an inclined position supported by reinforced concrete buttresses. In this type, failure of one slab would not affect the stability of the remaining portions of the dam. It is especially adapted to relatively long and low dams where the foundation conditions admit of placing the buttresses close together. Of this latter type the Ambursen design is a good example and the dam was designed and is now being built by the Ambursen Construction Co., 61 Broadway, New York.

This dam closes the comparatively narrow gorge at the outlet of an old lake area on the North Canadian River, about $7\frac{1}{2}$ miles west of Oklahoma City. When completed, the reservoir will be one of the largest in the southwest, and will furnish a supply of water five times as great as that required by the present population of Oklahoma City. Capacity of the reservoir will be about 7 billion gallons. Excess storage capacity provided in this case is merely incidental to the development because it was found that by damming the entire lake area, the work

would cost less than any practicable scheme for restricting the reservoir to a lesser area.

Actual work on this construction was begun April 22, 1918. At the present time the dam is practically complete.

The Chamber of Commerce of Oklahoma City was very active in promoting the bond issue of \$1,500,000 that was necessary to provide funds for this work.

Splendid Record for Birmingham.

The annual report of the city building department, at Birmingham, Ala., presents most convincing proof that the city of Birmingham during the past year entered upon a period of substantial growth which far surpasses any year in the past. This report shows that during the fiscal year ending September 30, a greater number of permits were issued than during any year in history, except 1913-1914. The figures of the present year are, however, all the more significant when it is considered that the larger expenditure of 1914 was the result of the construction of the Jefferson County Bank building and the Tutwiler hotel.

During the past year 4,092 permits were issued for buildings and improvements amounting to \$2,742,968, while the corresponding figures for the year 1917-1918 were 3,415 and \$1,871,840. In the record year 1913-1914, 4,470 permits were issued for buildings and improvements calling for an estimated expenditure of \$3,670,816.

In the opinion of J. E. Spencer, city building inspector, Birmingham is experiencing at the present time the greatest building boom in its history, for as he pointed out yesterday, in 1913-1914 the construction of two very large and expensive buildings ran up the total amount, while the present year saw the construction of a greater number of residences than has ever before been known. During the past two months more permits have been issued for the construction of residences than during any similar period in Birmingham's history, and Mr. Spencer says that he expects this class of construction will continue to increase for some time to come.

A Restricted Suburb.

"If I sell you a lot in this suburb you agree to build a house costing not less than \$20,000?"

"Yes, if that is the rule."

"And I might suggest that my brother is an architect. He'll see that you observe the rule."—
Kansas City Journal.

Upstairs Veranda Living Room

THE inhabitants of warm climates long ago understood and developed the art—the comfortable and delightful art—of living out of doors. The people of Italy have long had their loggias, and the people of the Orient their hanging balconies, made beautiful with vines and flowering plants. And now in America, in those parts where the hot season is even of comparative duration, this same art is developing, writes Bertha Howland in “The House Beautiful.”

It is perhaps a misconception that this is a luxury only for the rich. On the contrary it is within the possibilities of achievement by the very poor, as one



Fig. 1.

may discover by a visit to some of the so-called slum regions of our big cities. In Boston, for instance, where this effort has been stimulated through the generosity of one of its philanthropic women, who offered a prize for the best result, one will find the tiniest corners of the roof-tops in one of its poorest and most congested sections radiant with the colors of flowering plants and the men, women and children enjoying this refreshment from the heat of the crowded and seething streets.

The houses of the rich, especially in country places, are now as a rule provided with verandas, little garden houses, pergolas, and other delightful out-of-door living-rooms. These are for the most part, however, on the ground level. But for them, and even more necessarily for those living in the crowded suburban districts, this luxury could be even better accomplished by the upstairs veranda leading from the rooms of the second or third floor. Here, even with close neighbors, one can have all the delights of open-air living, away from the dust, the noise, and the inquisitiveness of the public street.

For the suburbanite who may not possess the luxury of an extra country house, this pleasure is as a rule of comparatively easy accomplishment at small expense.

Almost every suburban house is entered either at the front or back or both through a covered porch

or “piazza” (Fig. 1), and this covered entrance provides the owner with his fundamental equipment ready made; in other words his floor and boundary railing are already in place.

With this beginning, large or small,—the larger the better, of course,—the construction of the most delightful out-door sitting-room, dining-room, and sleeping-room is a matter of only a little thought and the expenditure of a few dollars. A superstructure may be added of wood (Figs. 3 and 4), or of gas pipe (Fig. 2), or even chicken-wire, and covered as desired with vines, awning cloth, or whatever pleases the fancy of the owner.

On the top of the wooden railing already in place may be fastened boxes of plain construction, preferably about 10 inches wide and of proper lengths to fit the spaces, in which may be sown or planted flowering plants, that shall bloom throughout the summer, forming a partial screen from the street, of delightful colors and perfume (Fig. 6). These boxes are best painted dark green, perhaps, or to match the trimmings of the house. The most satisfactory plants have been found to be nasturtiums, ivy geranium, petunias (preferably white), sweet alyssum, heliotrope, or any of the constant-blooming, low-growing plants of harmonious colors.

One of the most satisfactory second-story verandas that I ever saw was constructed by a boy of fifteen, on the roof of a kitchen L, fenced about with chicken-wire, against which he had put rows of potted nasturtiums and other gay flowering plants. There lying on a bank of cushions and pillows, he used to read by the hour, surrounded by beautiful things and absolutely undisturbed.

Let us suppose, however, that our suburbanite or



Fig. 2.



Fig. 3.

city-dweller is fortunate enough to build his own house and is able to secure ideal conditions. In this case he would perhaps have two verandas, one having an eastern and the other a western exposure. He could construct a substantially supported roof, preferably covering only half the veranda, for by this arrangement he could have shelter without unduly darkening the adjoining rooms inside the house. The supports of this roof would follow the architectural construction of the house, being either of wood (Fig. 3), or concrete, or whatever was suitable.

The finish of the roof "ceiling" gives unlimited scope to the architect's or owner's imagination for decorative effect. In the Italian loggia, to which we already referred, the roof "ceiling" often received some of the most artistic and costly decoration of the whole house, as may be seen in the painted ceiling of the loggia of the Villa Medici, at the Vatican, and in many places throughout Italy. In our severe climate, however, such painted decorations would not, of course, be durable, and hence are out of the question; still there can be many delightful and simple schemes of decoration, carried out by means of beams or well considered sheathing and paneling in rectangular or diagonal patterns, simple and structural in character.

For the furnishing of this outdoor living-room the possibilities are varied and almost unlimited in their range of character and colors, and of expense. Our ideal veranda would be at least twelve feet wide and twenty-five long, which makes a generous space for summer comfort. Here will be room for one or two good-sized tables, several chairs, including a steamer chair, possibly a couch, and one or two hammocks.

The furniture should be chosen with a view not only to comfort, but to its reliable wearing qualities when exposed to weather; and it would be advisable to use willow, rattan, or India cane; or any of the so-

called garden furniture, well painted, varnished and rubbed down to a soft finish; rustic hickory, or possibly Mission furniture, if it is finished with a waterproof stain. It is possible to procure both tables and chairs, and in some instances couches, in all these materials.

Whatever cushions are used are more suitably filled with moss or hair than feathers or down, as they absorb less dampness and dry out more quickly after exposure. The coverings should be preferably of sunfast dyes. At the present day the wonderful successes wrought by the Mercerizing process have placed at our command an inexhaustible range of colors and weaves, ranging in price from fifty cents to many dollars per yard. Turkey red still retains its favor, and there has recently been put upon the market a striped Turkey red, self-toned, that is sixty cents a yard and is likely to prove very satisfactory and popular. Certain shades of denim have been found to be fairly durable, and many of the highly colored linens in Austrian futuristic designs find in these outdoor places their happiest surroundings and are a delight to the eye.

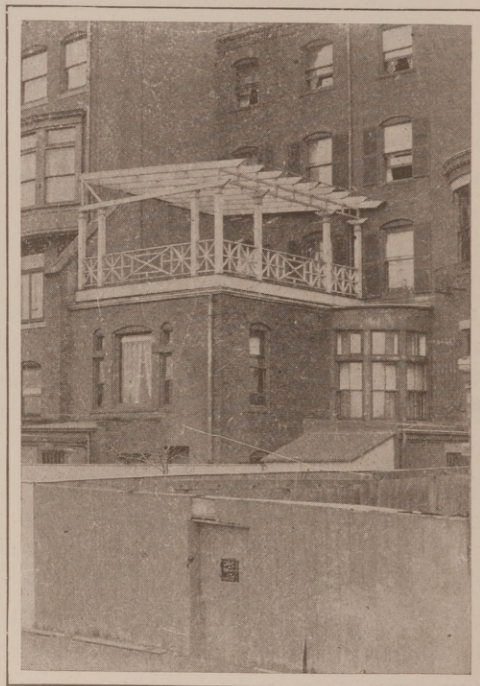


Fig. 4.

For floor coverings, one may use India druggets, Algerian straw rugs made of cocoanut fibre, Scotch rugs, or Moonge rugs. These last, however, at this writing are not easily procurable because of the war conditions.

If one roughly figures the cost of furnishing a veranda in this manner it will be somewhat as follows: an Algerian straw rug will cost from \$5.00 for 3 feet by 6 feet, to \$22.50 for one 9 feet by 12 feet; a willow armchair of any color stain from \$6.75 or \$8.00 to twice that amount, and the cushions, varying

of course with the price of the covering material, at an average price of \$2.50 or \$3.00 each; a rustic hickory or mission armchair about \$7.00 to \$10.00; and a steamer chair from \$2.50 to \$3.50. A willow couch costs about \$18.00.

Tables in these materials range in prices from \$5.00 to \$6.00 up.

Hammocks, of course, can be bought at almost any price, from the ordinary hammock at \$2.50 to the mattress hammock which may cost \$12.00 to \$14.00.

Thus, with one large rug, two armchairs, a willow couch, a steamer chair, two tables and a mattress hammock, these furnishings may cost approximately \$75.00 or \$80.00.

Japanese drop screens are in many cases a desirable and often necessary addition to the veranda furnishings. These are fitted with metal pulleys and priced accordingly to size, from about \$2.00 to \$5.00. The original wooden pulleys that are imported with them are perfectly useless and should always be replaced by metal ones.

In houses of fairly permanent ownership, if there is even a small amount of surrounding land, one may grow strong perennial vines to serve as a screen and shelter. The best of these are the old time bitter-sweet, clematis, woodbine, and passion flower; or one might use the rambler rose or even the grapevine. These all shed their leaves in winter and so admit to the house the full measure of sunshine during the season when it is needed.

In mosquito-ridden climates the veranda may have to be wholly or partially screened, though the higher up the veranda is built, the less urgent is this necessity. Often a sort of fine wire cage at one end, entered by a screen door, is sufficient, as that defends one from the mosquito at his most voracious hours,—this is, during meal time and at night. It is rather



Fig. 5.

an annoyance to be obliged to sit permanently hedged in by a screen, as it is a confusing and unpleasant veil to hang between one's self and the freedom and beauty of the outer world.

In Fig. 4 is shown an upstairs pergola recently constructed for use in the coming summer at the back of a city house whose owner is forced to remain in the city throughout the entire year. Fig. 5 shows a ground-floor pergola which has served as a suggestion to this man of the pleasurable results which he hopes, and with perfectly good reason, to work out in his second-floor retreat. Could anything be more delightful? And how barren it makes all the foregoing houses look!

Fig. 6 shows an outdoor living-room that has been achieved by a business woman who has to remain in the city during the summer, and whose hours of leisure passed here among flowers and vines and trees have become hours of real refreshment and rest. She has told me that for at least three months of the year, she never, at home, eats a meal within four walls.

This veranda was constructed over such an entrance porch as is shown in Fig. 1, with the roof brought down to cover half the width. The house is of shingle finish, and, as will be noted, the supports of the roof follow that construction. Half the veranda is screened by a bittersweet vine of about eight or nine years' growth; it now bears so thick a leafage in mid-summer that the outlines of the close-by neighboring house are hardly discernible. The other half is so protected by an awning with a side curtain attached, which, when drawn, shuts out the sun completely. The flower boxes are filled with white petunias and ivy geraniums, which bloom throughout the summer. The simple drop-light with its Japanese shade is electric, and by means of a simple but ingenious pulley can be drawn up out of the way,



Fig. 6.

when not in use. In the evening it serves the supper table and later is used for reading and sewing. The rug is an Indian drugget; the chair in the middle foreground is of India cane; the other chairs are rush-seated house chairs that can be used here perfectly well because they are not affected by ordinary dampness.

The other end of this veranda, that is not in view, is given up to a hammock and some natural stained reed rocking-chairs, ample and comfortable.

Night on the veranda is by no means the least enjoyable period of these open-air experiences. Here one breathes in a new life, and one is often reminded of the words of Robert Louis Stevenson, who expressed the sensations of an outdoor sleeper when he wrote, "Night is a dead monotonous period under a roof; but in the open world it passes lightly, with its stars and dews and perfumes, and the hours are marked by changes in the face of Nature. What seems a kind of temporal death to people chocked between walls and curtains is only a light and living slumber to the man who sleeps afieid."

This perhaps sounds rather idyllic for the city or suburban dweller, but this same refreshing slumber comes in only a slightly lesser degree to the man or woman who passes the nights in one of these sleeping porches or upper veranda retreats.

Foreign Trade Opportunities.

Where addresses are omitted they may be obtained from the Bureau of Foreign and Domestic Commerce, Washington, D. C., and at the branch offices of the Bureau, 315 Custom House, New York, N. Y.; 629 Federal Building, Chicago, Ill., and Association of Commerce Building, New Orleans, La., and 310 Custom House, San Francisco, Cal. For convenience in filing, please use separate letter sheet for each trade opportunity request.

30692.—The representative of a firm in Java is soon to arrive in the United States for the purpose of buying for private architects, builders and contractors, tramway companies, etc. Agencies are also desired for the sale in Java of safes, water filters, wood preservative for railway sleepers, expanded metal, fencing, water-mixed and dry wall paints, luminous paint, and asphalt or similar stuff for roads. References.

30718.—A firm in Belgium desires to secure an agency on commission for the sale of building materials, architects' supplies, and conserves of all kinds. Correspondence may be in English. References.

30722.—A merchant firm in Spain desires to purchase household refrigerators, cooking and heating stoves (gas, oil, wood, coal, and electricity), household goods and kitchen utensils, hardware, machine tools, building material, paints and varnishes, and

wire and wire screening. Quotations should be given c. i. f. Spanish port. Payment cash against documents. Correspondence should be in English. References.

30870.—An organization for the construction of new hotels in a cit yof France proposes to construct in the near future a hotel of 420 rooms, and desires to get in touch with American firms interested in the export of interior furnishings, such as electric lighting, heating, plumbing, ventilation and sanitary appliances, kitchen equipment, refrigerators, laundry installation, washing and drying machinery, elevators, telephone installation, and insulating material.

30872.—A firm in Cuba desires to represent American firms which are not already represented in that field for the sale of asbestos shingles, corrugated boards, metal shingles, roofing paper, and canvas and canvas goods. References.

30877.—A manufacturer in Scotland desires to purchase, with exclusive rights in the British Isles, supplies for builders, such as sanitary plumbing materials, plaster, and supplies for railway companies and manufacturers. Quotations should be given c. i. f. Glasgow. Payment, draft at end of first month after delivery of goods. References.

Personal Mention.

Prominent Contractor Killed.

James M. McFarland, prominent contractor of Jacksonville, Ala., was instantly killed near his home when he lost control of his automobile, which plunged off a bridge and pinned him beneath the wreckage. A widow and one son survive him.

Atlanta Builder's Secretary Resigns.

Dan Carey has resigned as secretary-treasurer of the Atlanta Builders Exchange, to enter the electrical supply and specialty business. This is in a sense no change of occupation for him at all, for he has been "a live wire" all along.

Returns to Clemson.

M. T. Birch, formerly instructor in architectural drawing at Clemson College, S. C., has returned to his service at Clemson after two years' service in the aviation corps.

Offers Services to Italy.

Whitney Warren, prominent American architect, has arrived in Italy from Paris and will offer his services to Capt. Gabriele D'Annunzio.

Household Efficiency Expert on Closets

By Mrs. Christine Frederick.

POSSIBLY no one feature of house construction has been the subject of more controversy than the closet or cupboard. How shall it be built—what size, what shape, how wide the shelves?

The first thing most women do when they look at a house is to see how much closet space there is and where it is located. As one woman said, she would build her closets first and place the rest of the house around them!

The present tendency is toward more and more built-in furniture, or built-in space instead of using separate chiffoniers or wardrobes. Well planned closet space means sufficient room for storage and convenience for the housekeeper.

Every house needs a linen closet, but it should never be located in a bedroom. The best place for it is in an upper hall so that it is accessible from any room. One such closet has shelves in the upper part four feet long by two feet wide—just the right size for the blankets and comfortables. Other shelves are divided by uprights into separate parts to accommodate each kind of sheets, pillowcases, towels, etc. Plainly written large labels make it impossible to confuse.

It is never a wise plan to have large, heavy, deep drawers at the bottom of any closet, because when filled they will be too heavy to pull out easily. All drawers should be placed midway in any closet, where they can be more easily pulled out than if either too high or too low.

Every one recalls the long, very narrow clothes closets found in some bedrooms. In order to reach one of the garments in them it is necessary to brush all the others off their hooks!

There are several excellent closet systems specially designed for containing clothes in the least space. Some of these are fitted with a flexible rod on which many hangers may be hung. The space taken by these closets is not more than two feet square. They operate on the same principle, indeed, as the "wardrobe trunk."

In a hospital I once saw what I thought was the only sanitary closet. Instead of having the closet service at the floor level it was raised about 18 inches. This made it just the right height for laying shoes, hat boxes, etc., within easy reach. Also, being so much higher than the floor level it never caught the dust.

There is on the market a portable closet, especially designed to keep valuables which one prefers to have locked. This is somewhat like a sectional bookcase and can be placed anywhere. Since it is made

of metal it is fireproof. It is excellent for a small house.

When a drawer becomes over three feet deep it is almost useless. The ideal drawer is just deep enough to contain one layer of articles. For example, the shallow drawers for silver now found in some buffets are ideal. The deep drawer in which everything can be bundled is really only a ragbag, where articles can never be laid in any order.

A closet for phonograph records or player piano rolls can easily be built into any room. A built-in closet for hats and coats is far better plan than a separate "hatrack," which is a most hideous article to put into any hall. The only things which should not be put into a closet are many food stuffs, which will not keep so well when shut away from light and air.

Another closet too seldom seen is one especially for brooms, the vacuum cleaner and also that most difficult-to-fit object, the case holding the extra table leaves. Such a closet may easily be made between the kitchen and dining room or in the back hall, etc. Downstairs in every house there should be a capacious hall closet for wraps and the storage of the many playthings or athletic stuff which every family owns. A small hand wash-basin is a useful addition to this lower closet.

Another useful closet is that of a woman very fond of sewing. She had made a special set of shelves and drawers on which she keeps her patterns, materials and all the tools connected with her work. There is a place for everything and everything is in its place.

It pays to design closet space carefully. Much of the convenience and comfort of the home depends on this small detail of house construction.

Advocates Uniform Color.

The suggestion is made by the weekly bulletin of the Association of Commerce, at New Orleans, in its "paint-up" movement among local business houses that a uniform color be used in decorating buildings in New Orleans.

In its honor roll discussion the bulletin says that buildings conspicuously paintless for many years now glisten in the sunlight in spotless coats of white or light gray. The National Shirt Shops have closed a contract calling for repainting of their store every three months. Odenwald and Gros and F. C. Waterbury are among the merchants which have painters at work on their stores says the Times-Picayune.



MAKING A NEW HOME FROM AN OLD HOUSE

WHEN we bought our house six years ago there were several alterations to make and a few additions, and three weeks only to do it all in; by that time our furniture had to be away from the New York apartments. Such weeks of confusion as they were! We thought the dirty work should all be done before the furniture arrived, and, intending it to be our home all the year 'round, a heating system had to be installed; electric light seems a necessity; much of the window glass was broken and the sashes stuck with paint; several recently cut doorways were to be blocked up, and D. wanted two bed-rooms thrown into one so the summer wind might blow through our room from end to end.

Four posts that supported the central part of the house were of soft wood and, perhaps, unsound; the girders resting on them seemed to have settled somewhat, for diagonal cracks showed in the walls of the central hallway. Consequently, jack-screws were set in the cellar, one under each of the central girders, and the weight bodily lifted from the old wood posts. While the men were at this below, I walked from room to room, and had the satisfaction of seeing the cracks gradually close. An inch or two we must

have raised it; we went as far as we dared, but if I were to do it now, I should be less timid, and "jack" until a mason's level showed the floors absolutely true.

It seems that in old houses like this the floors are generally somewhat sunken in the center, for the outer stone walls remain rigid and the interior wooden posts have been renewed once or twice perhaps and the new posts not wedged up quite tight, so when the old are knocked away the girders settle a little. Such a process had occurred here, and, determining to end it, we installed six cast-iron columns taken from a hotel that was being torn down. The house will not settle again.

Electric wiring was extremely difficult. The floors were of wide, two-inch planks, each tongued into a groove in the edge of the next, so they could not be opened without damage. The oak framing of the outside walls was filled solid in brick with no opening places for the wires; at the level of the second floor there was a heavy sill or girt in both outside walls and partitions, so wires could not be "fished" or pulled up from below, as they can be in a modern house. I doubt the wisdom of wiring such a building; there is too much cutting. Candles and lamps have their attraction; but perhaps this is only a man's point of view.

The steam fitting was comparatively simple. With the exception of the kitchen, there were four chimneys of two flues each, and but seven fireplaces; ergo, there was one empty flue, and the chimney problem was solved. For safety, we opened the front of the flue from the cellar to the second floor and lined it with the standard rectangular terra-cotta pipe known as "flue-lining." The vertical steam risers we ran through the closets whenever we could, or in angles of the chimney-breasts. We tried to place all the radiators where they would not be conspicuous.

Two great Baltimore heaters had been set in front of the dining and drawing-room fireplaces and the openings boarded up behind them, so these, of course, we could remove. The mantels, fortunately, had never been damaged, and, after we had been in the house six months or so, a discovery was made concerning them, which, like every unexpected find in an old house, was disproportionately exciting.

One morning I was tinkering with the boiler in the cellar when I chanced to see what seemed to be several pieces of thick slate apparently coated with stove-blackening. I was at a loss to account for them;



The white treatment of the hallway makes an effective foil for the dark furniture and mahogany banisters.



Wall paper selected
to conform with the
gray landscape.

Appropriate for dining
room of an old house.

curiosity led me to rub off a little of the blacking and, I was surprised to find I had uncovered a piece of beautifully veined gray marble.

Now, it seemed to me the drawing-room hearth was of just that peculiar marble, and I took the piece up for comparison. It proved quite the same, and, moreover, it corresponded in width with the facing, at that time a plastered affair, with crude blue stenciled designs. Excited, I called D. How we ransacked the cellar! Several more pieces came to light, and some of them were of brownstone like the dining-room hearth. It was the most fascinating of cut-up puzzles! In the end we had the uprights of the dining-room facing entire and those of the drawing-room, with the exception of a fragment two inches long or so. What had become of the lintels puzzled us.

A few days later D. called me to the kitchen.

"What on earth is that flat thing they've put under the range?" she said. "Can't we get it out?"

With a table-leaf I pried up the range an inch or so and pulled it out, and another like it.

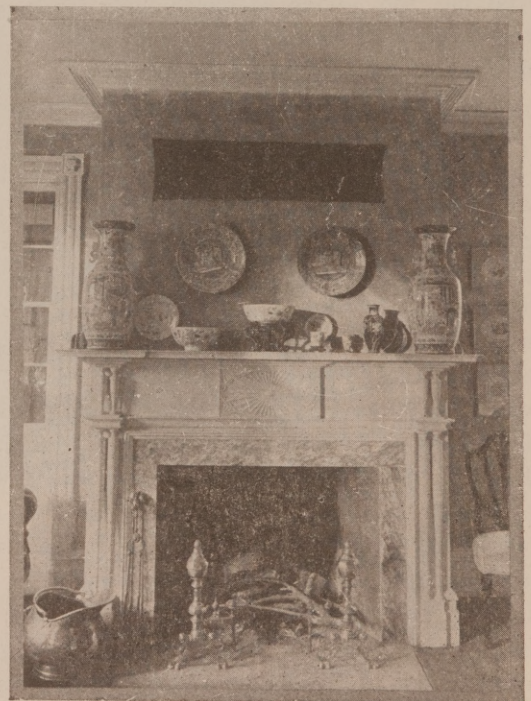
"The lintels!" we shouted. "Yah! Hallelujah! We've found 'em!"

We capered about, idiotically, enthusiastically!

Black they were, but unbroken. Ah! we knew the excited joy of the archaeologist who, digging through buried cities, finds a strange inscription or a perfect bas-relief! What was the history of those facings? Were they taken down merely to serve as foot-stool for an apathetic kitchen range—modern ingenuity victorious over ancient aesthetics? Well,

Art came into her own again, and the old facings are now where they belong.

As to the foundationless range, it developed that a new floor had been laid, lapping over the old stone hearth, so we took it up and exposed the gray, flat stones. The wide fireplace had a curious set of wooden doors, doubtless closed when the fire was not lighted, to keep ashes from blowing into the



From beneath the kitchen stove were unearthed the marble slabs that once framed the fireplace opening.

room. The new floor held them shut, and when it was cut away we opened them. There was the old fireplace just as it used to be; the great iron crane hanging in sockets let into the side wall. It was so curiously interesting that we resolved some day to build another kitchen and turn that into a smoking-room. Meanwhile we use the great fireplace for ventilation. The doors were lifted from their hinges and the range set back into the opening, which is so high that it acts as a hood to gather the cooking smells and draw them up the chimney. The iron stovepipe is carried to the top, and heats the air around it, causing a steady draught up and out from the kitchen. The new position of the range gives more room, too, and all without destroying the old work in the least. In fact, we could restore the mantel-shelf where it had been hacked away for the stovepipe and plaster up the hole above where the pipe had entered the flue.

Those early days of housekeeping! How enthusiastically we plunged into restoration and development! Layers of paper were stripped from the walls, and we painted them or hung new paper more in keeping. D. was the motive force in all this. My interests were rather out-doors, so when something appealed to her irresistibly she forced the situation. The hall had been hung in a green burlap, which I pretended to admire because I thought we had done enough to the house for the time being. D. used to tweak any loose corner when she happened to think of it, and it came loose so easily! One day she tore of an entire side wall. That settled it. I had to acknowledge defeat. I confessed that the queer forms and long, tenuous points that it brought out bothered me, too, above the arch over the foot of the stairs, for instance, and the triangle at the side of the first flight. Samples of many wall-papers were tried before we learned that the finest treatment was in pure white with the dark color of furniture and banisters silhouetted against it. It is several years now since we painted it white, long enough to convince me we were right in eliminating all papers or colors.

The dining and drawing-rooms did not present the same difficulty. The windows paneled beneath to the floors; the doors and the mass of the mantel each was a rectangle resting on the floor; the ceiling, with its delicately moulded cornices, of course, horizontal. With no difficult elements there was a wide choice in wall treatment. The dining-room is now papered in pale gray and white with foolish little repeating landscapes such as old papers have; the floor is gray, and the only colors are in the rug; the various platters hung on the walls, the mahogany of the furniture, and perhaps a mass of flowers on the table. The table was the rankest yellow oak but many coats of white paint have done away with

that; a little scheme of D.'s, I think, to eliminate ponderous table-cloths.

When many layers of paper were removed from the drawing-room walls, the plaster proved to be rough-sanded and colored a warm yellow-ochre, with that singular clearness colored plaster acquires when the pigment is mixed with it before it is troweled on the walls. This was too rare and beautiful to cover with paper, so we let it remain, and worked through one Sunday afternoon painting out various white smears and patches with yellow water-color. The ceiling had always been white, and the painters were none too careful with their splashings. The effect was altogether pleasing.

It is a large room, but we had a carpet which seemed sufficient for it, of a dull, warm pink that harmonized perfectly with the wall color and with several Eastern rugs destined to go there. Accordingly, the carpet went to the cleaners; but it returned a pale solferino hideously out of key with everything we had. What they did to it I do not know. We washed a small piece and a lathery something seemed to exude. A day's bleaching in the sun turned the piece a soft golden brown! This was not at all what we wanted, of course, but if it turned from pale solferino to brown, then in between it must have reached the warm, dull pink desired. Accordingly, the entire carpet was spread on the grass, a hose played on it for two hours, and then left in the sun. The lathery washings killed the grass, but the color softened gradually until it was just as it had been originally.

Then a new difficulty developed, for there was not enough of it by ten yards! The double drawing-room is enormous, and of course it was impossible to buy more of exactly the color. Finally, in laying it, to make the most of what there was, we left out great squares where the rugs were to go, and nailed quilted paper there. The rugs cannot be moved without a sad display.

The old mahogany chairs and sofa seats upholstered in warm pink velour or a delicately colored brocade, are in perfect key. The color scheme is Warm pink—Carpet, chairs; warm pinkish brown—rugs; dull yellow ochre—walls; white—ceiling and woodwork: mahogany—furniture; with small accents of black and clear colors in vases or the details of hangings.

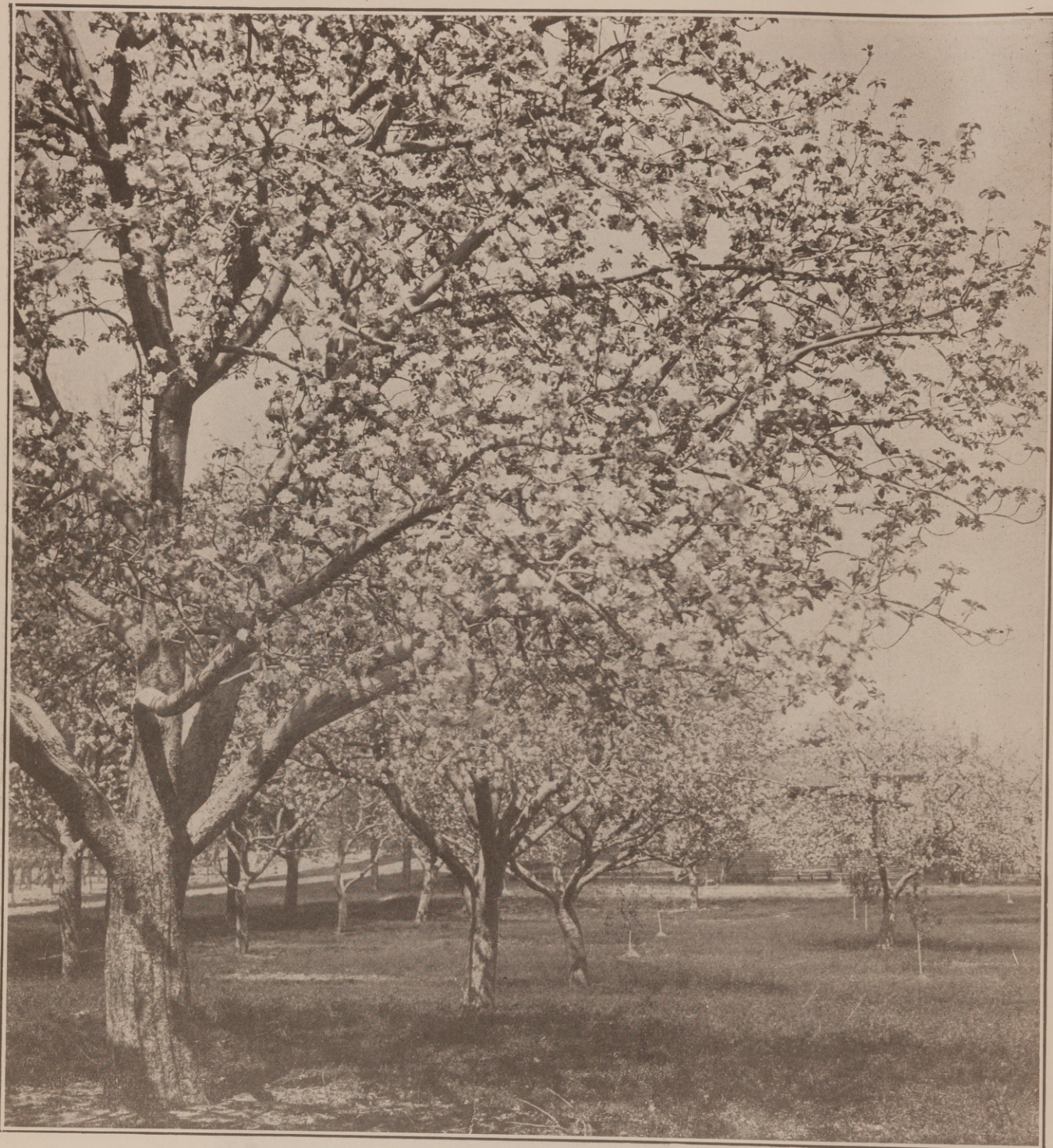
Citizens of La Grange, Ga., have just raised by popular subscriptions the sum of \$30,000 for the purpose of enlarging and improving Dunson's hospital. Among other improvements the trustees have purchased the home of Dr. H. R. Slack, adjoining the hospital, which will be used as a home for the nurses. This hospital was made possible by reason of a bequest of the late J. E. Dunson.



Courtesy Ohio Architect.

R. M. Hulett, Architect, Cleveland, Ohio

View from Garden, Residence E. C. Deible, Akron, Ohio.



APPLE BLOSSOMS.

Dear pale white blossoms overhead, sweet gift of God and
Spring,

Hiding among the fresh green leaves that closely round you
cling,

What picture of her laughing eyes to me you always bring.

The musty scent of pale green blooms floats in the drowsy
air,

The sky, as seen through trembling leaves, seems far and
very fair,

Somehow my heart is tangled in the tresses of her hair.

For where the orchard grasses grow so stately and so tall,
Down where the rose vine runs along the moss-grown garden
wall,

Standing alone, together we, first heard Love's tender call.

And still today the apple trees dream golden hours away,
Lulled by far-off siren songs that unseen fingers play,

And leaves me, dreamer, all alone, where wistful memories
play.

A New School of Fine Arts and Architecture.

By Fiske Kimball.

A NEW branch of instruction will be initiated at the University of Virginia this fall by opening of the McIntire School of Fine Arts, which will help to revive in the new South the knowledge, love, and patronage of art characteristics of the best in the South of colonial and ante-bellum days. It is to this old artistic culture, indeed, that the university owes its early beginning in this field—the earliest anywhere in the United States—for Jefferson included in his scheme for instruction at the university a department of fine arts as the first of the professional schools.

The fulfilment of this prophetic beginning, after just a century, has been made possible by the splendid gift by Mr. Paul Goodlee McIntire, an alumnus of the class of 1879, of \$155,000 to endow a special school of fine art, embracing art, architecture, and music. Among other things in his letter of gift Mr. McIntire wrote: "I sincerely hope that the university will see its way clear to give many lectures and concerts upon the subject of art and music, so that people will appreciate more than ever before that the university belongs to them and that it exists for them."

The work in art and architecture will open this year, while work in music will begin next fall. It is planned first of all to provide as part of liberal training for students in the college, courses in the styles of the past, and in drawing and painting as a means of expression scarcely second to language. Lectures illustrated by the stereopticon will trace the development of painting, sculpture and architecture, and lay the foundation for intelligent appreciation and judgment in after years.

As nothing can replace contact with original works of art themselves, the most notable of the loan exhibitions of the year will henceforth be brought annually to Charlottesville. Thus during the coming year arrangements have been made for showing a collection of thirty paintings from the Metropolitan Museum in New York, an exhibition prepared by the National Sculpture Society, one by the Society of American Illustrators, one of copies of old masters, one of the latest war lithographs by Joseph Pennell. To supplement these, it must not be forgotten, the university itself offers its own unrivalled artistic grouping—the splendid old buildings of the lawn, specially designed by Jefferson "as specimens for the architectural lecturer," the new buildings by Stanford White and others, the fine sculptured figures and groups, old

and new, by Heudon, Moses Ezekiel, Karl Bitter, Gutzen Berglum, and Robert Aitken. In Charlottesville too will soon be unveiled other splendid examples of modern American sculpture—the gift of Mr. McIntire—the Lewis and Clark monument and the equestrian figure of Stonewall Jackson by Charles Keck; the Lee monument by Shrady.

Professional instruction in architecture will also begin this fall, with the opening of courses in architectural drawing and design, and with the announcement of a full four year program leading to the degree of Bachelor of Science in Architecture. While organized as one of the academic schools and taking advantage of the courses in art and other liberal subjects, this will have the fullest cooperation with the Engineering Department in the work in structural design and conduct of building operations. The system of instruction will closely follow that found most successful in the best established American schools of architecture, with such modifications in the direction of conforming to condition of actual practice as war experience has recommended. Its central feature is formed by the problems in design, in which practice in the analysis of conditions in many current types of buildings is combined with development of artistic powers of composition.

For all this work of the School of Fine Arts the University has provided ample present quarters by remodelling the building at the southern end of the West Range, thus furnishing a large and finely re-proportioned hall for lectures and current exhibition of designs, with well-lighted draughting rooms and studies below. The McIntire fund has made generous provision for liberal initial equipment, and even at the outset the collection of lantern slides, photographs, casts, and illustrated works will surpass that of many schools which have been longer established.

To take charge of the work in art and architecture the University has called Professor Fiske Kimball, formerly Professor of Architecture and in charge of the Department of Fine Arts at the University of Michigan. Besides his experience as a practicing architect and as a lecturer on art, he has written extensively, one of his books being a general history of architecture. Another was devoted to the buildings and influence of Jefferson in the realm of art—a subject which renders his coming to Charlottesville particularly appropriate.

Trade Notes of Interest

Malleable Capacity Idle.

In connection with the insistent demand for Malleable Castings, the American Malleable Castings Association reports that this condition has been anticipated and that ample facilities have been provided for both the present and future expansion of the industry.

It is stated, however, that at the present time the shortage of unskilled labor will not permit this great capacity being used. Fully 200,000 tons of Malleable capacity is today idle but would be immediately available if the necessary labor could be secured.

Improvement in this direction is not looked forward to with any great hope until the activities of other industries are curtailed or until there is a flow of immigration sufficient to build up the supply of labor available for foundry work.

This means, therefore, a large percentage of capacity idle continuously in every plant regardless of heavy unfilled orders.

Barrett Company Dividend.

The Barrett Company declared regular quarterly dividends of \$2 a share on the common stock, payable October 1 to stock of record September 17, and the regular quarterly preferred dividend of \$1.75 a share, payable October 15 to stock of record September 25.

Keasbey and Mattison Representative.

According to The Industrial Index, Nelson B. Acree, South Carolina and East Georgia traveling representative of the branch office of Keasbey & Mattison Co., in Atlanta, has to admit that the eleventh is the big date in his life. He sailed for France, as a soldier on the eleventh. The armistice went into effect on the eleventh hour of the eleventh day of the eleventh month. He was discharged from the service on the eleventh of the recent month. And his marriage to a charming Valdosta, Ga., girl took place on the eleventh of September.

A Seasonable Book On Flowers, Trees, Etc.

A very timely and interesting catalogue is issued by Sigmund Tarnok & Co., landscape architects and nurserymen, Augusta Ga., where they conduct the Fruitland Nurseries having succeeded the P. J. Berckmans Company. It is exceedingly comprehensive, abounding with information valuable to everyone interested in flowers, trees, shrubs, vines, evergreens, etc. Under the head of "Hints to Planters" are presented instructions of particular usefulness to the inexperienced, as full information is given

concerning time for planting trees and how the work should be done. Following this are detailed instructions for dealing with injurious insects and fungus diseases, and how to make the spraying solutions, etc., to kill them and to keep them off. There are also instructions about the making of a good lawn, which many a houseowner will appreciate. This firm, as landscape architects, also lay out and improve grounds surrounding institutions, private residences, etc. A number of appropriate illustrations are dispersed throughout the book.

Was Head of Belmont Iron Works.

Walter W. Pharo, one of the founders, president and treasurer of the Belmont Iron Works, and president of the Tuckerton Railroad, died Friday, October 10, in Beach Haven, N. J.

Mr. Pharo was born in Tuckerton, N. J. May 31, 1855. He was graduated from Haverford College, class of 1876. He was a member of the Merion Cricket Club and the University Club.

A wife and two daughters, Mrs. Edward Browning and Miss Elizabeth Pharo survive him.

Mr. Pharo's home was in Haverford. He was a member of the Haverford Friends Meeting.

Atlanta, Ga. Permits.

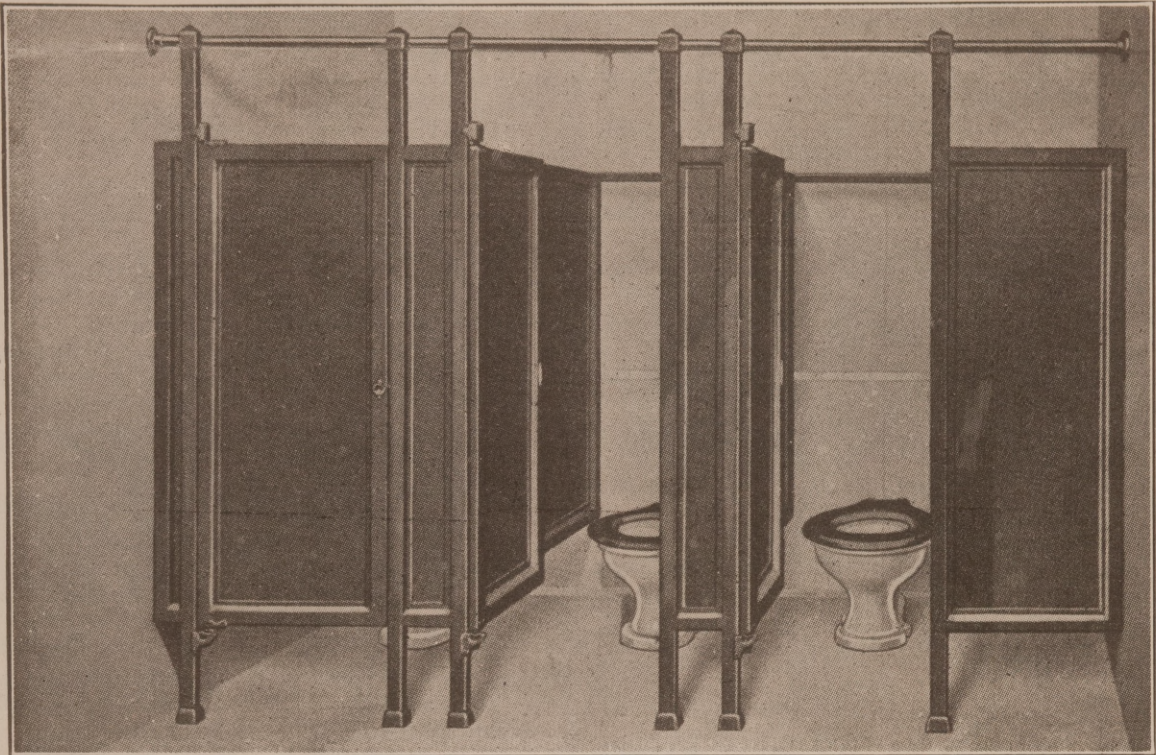
Building permits in Atlanta from January 1 to September 30 aggregate \$8,261,307. In 1912 the city made its highest building record, the permits of that year totaling \$10,000,000. The present year bids fair to establish a new high record.

Permits for the nine months of 1919 have been as follows:

| | |
|-----------------|-------------|
| September | \$1,113,522 |
| August | 897,504 |
| July | 1,534,338 |
| June | 1,181,307 |
| May | 1,171,578 |
| April | 947,220 |
| March | 750,290 |
| February | 401,233 |
| January | 269,385 |
| Total | \$8,261,307 |

Catalogues Wanted for Brickmaking Machinery.

The consul general of a foreign country, located in San Francisco, wishes to secure catalogues of machinery for making bricks. These catalogues may be sent in care of the District Office of the Bureau of Foreign and Domestic Commerce, 307 Customhouse, San Francisco, Calif.

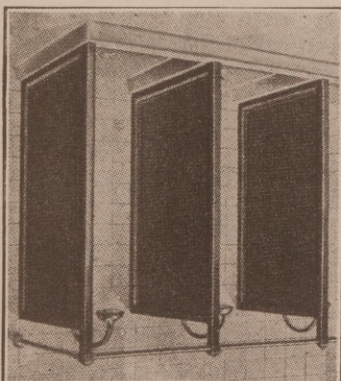


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Building and Construction News.

Bank and Office.

Excel, Ala.—Bank of Excel; brick building.
 Blytheville, Ark.—W. S. Langdon will not erect buildings as lately reported.
 Lafayette, La.—Bank of Lafayette & Trust Co.; addition.
 Monroe, La.—Central Savings Bank & Trust Co., Travis Oliver, V.-P.; 2-story addition; 34 additional offices; \$40,000.
 New Orleans, La.—Federal Land Bank; \$25,000 improvements; Favrot & Livaudais, Archts., Hibernia Bldg.
 Easton, Md.—Liberty Bank, U. F. Carroll and others; \$10,000 to \$15,000 building; 30x50 ft.
 Hennessey, Okla.—Hennessey State Bank; building and basement; site 25x90 ft.
 Isabelle, Okla.—Farmers' State Bank, W. H. Stewart, Prest.; building.
 Walterboro, S. C.—First Natl. Bank Bldg. Comm.; bids until Nov. 1 for building; 2 stories; brick.
 Columbia, Tenn.—Dr. Robert Pillow and Gordon Cowie; lawyers and doctors' building; 60x120 ft.; Milwaukee brick front; electric lights; steam heat; electric elevator; 2 stores on first floor; \$52,000.
 Perryton, Tex.—First Nat. Bank, F. P. Rogers, Prest., Ochiltree, Tex.; building.
 Berkley Station, Norfolk, Va.—Mexican Petroleum Co.; building for office and residence.

Churches.

Ozark, Ala.—Methodist Church; \$10,000 parsonage. Address The Pastor.
 Adel, Ga.—Baptist Church, A. D. Wiseman, Secy. Building Committee; bids until Nov. 3 to erect building; \$25,000; plans at office Mr. Wiseman and office J. E. Greene, Archt., Birmingham.
 Savannah, Ga.—Agudath Achim Congregation, A. Levy, Prest.; \$25,000 synagogue; brick and tile.
 Lothair, Ky.—Ashless Coal Corp; church at Yellow Creek.
 Louisville, Ky.—Bates Memorial Church; \$20,000 building; 40x80 ft.; frame and brick veneer; composition shingle roof; wood floors; hot-air heat; bids opened Oct. 19; O. W. Williams, Archt., 2225 W. Walnut St.
 Prestonsburg, Ky.—Salt Lick Coal Co., Beaver Creek; church.
 Lyon, Miss.—C. G. Bobo, Chrmn. Bldg. Committee; bids until Nov. 15 to erect 2-story brick church; plans and specifications from Mr. Bobo.
 Alexandria, La.—First Presbyterian Church, Rev. B. L. Price, Pastor; building.
 Dundalk, Md.—Spencer E. Sisco, Archt., 1605 Continental Bldg., Baltimore; \$30,000 community church, auditorium, gymnasium, bowling alleys; first of 3 buildings.
 Boone, N. C.—Methodist Church; \$20,000 building; contemplated; Rev. H. F. Powell, Pastor.
 Albemarle, N. C.—Stanley Baptist Association, Union Grove; considering \$50,000 church.
 Andrews, S. C.—Methodist Episcopal Church, South; \$35,000 building; brick or stone; seating capacity 400; steam heat; electric lights. Address J. E. Ford, pastor.
 Blackville, S. C.—Baptist Church; \$60,000 church and parsonage; Rev. L. H. Miller, pastor.
 Marysville, Tenn.—Methodist Episcopal Church, Rev. J. M. Emert, Pastor; \$51,000 building; R. F. Graf & Sons, Archts., Knoxville, Tenn.
 Memphis, Tenn.—Sacred Heart Parish, Rev. Father P. L. Mahoney, pastor; considering expending \$100,000 to complete church.

Norfolk, Va.—Church of Blessed Sacrament, Rev. Father Ryan, Pastor, York St.; stone building, 40x90 ft.; No. 1 Buckingham slate roof; wood floors; hot-water heat; bids opened Oct. 30; Wickham C. Taylor, Archt.

Salem, Va.—College Church; building. Address The Pastor.

Atlanta, Ga.—Plans for building for Presbyterian Church have been completed. W. M. Everett, Dr. C. J. G. Vaughn, L. D. Strouss and others, committee.

Clarksdale, Miss.—Bids will be received up to noon November 15, for erection of two-story brick church building. C. G. Bobo, chairman of building committee.

Greenville, Miss.—J. Rice Scott & Co., Grand Opera House Bldg., this city, are architects for \$10,000 building for church of the Redeemer, Episcopal; plans now ready.

Savannah, Ga.—Parish house will be built by St. Paul's Church; committee to confer with architects, S. S. Furse, R. Y. Marlow, A. B. Moore and S. K. Ward.

Public Buildings.

Birmingham, Ala.—Board of commissioners of Jefferson county authorized Frank H. Hewitt to secure architectural plans for record building of fireproof construction to cost not more than \$100,000.

Meridian, Miss.—Bids will be received until November 24 by Jas. A. Wetmore, acting supervising architect of the treasury, Washington, D. C. for erection of postoffice and

Miami, Fla.—City voted \$248,000 bonds, including \$15,000 bonds, including \$15,000 for hospital, \$3,000 for pavilion in cemetery, etc. Address The Mayor.

St. Petersburg, Fla.—W. L. Straub, Chrmn. Committee to erect war memorial; petitioned city for bond election.

Elberton, Ga.—City; library and community building; Willis Irvin, Archt., 1404 Lamar Bldg., Augusta, Ga.

Bogalusa, La.—City voted \$525,000 bonds, to include \$300,000 for school, \$10,000 for city hall improvements, \$15,000 for fire-alarm system, etc. Address The Mayor.

Wadesboro, N. C.—City will issue \$20,000 bonds to erect municipal building and improve fire-fighting facilities; Louis H. Asbury, Archt., Charlotte, N. C.; H. P. Taylor, Mayor.

Cushing, Okla.—City; \$33,000 city hall; 70x60 ft.; wood floors. Address The Mayor. (Lately noted voting \$40,000 bonds.)

Ponca City, Okla.—City; city hall. Address The Mayor.

Belzoni, Miss.—Humphries County; \$200,000 courthouse and jail; Kramar & Lindsley, Archts., 612-13 Millsaps Bldg., Jackson, Miss.; plans for buildings and mechanical equipment, including cells, furniture, etc.; ready about Jan. 1.

Roanoke, Va.—Roanoke County Commrs.; \$40,000 courthouse; 1 story; 42x100 ft.; brick; G. R. Ragan, Archt., Terry Bldg.

Monroe, La.—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C.; bids until Nov. 21 for remodeling postoffice and courthouse; drawings No. 100; plans and specifications at office Supervising Archt., or with custodian at site.

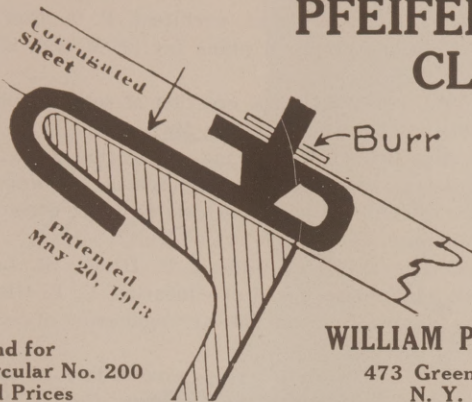
Meridian, Miss.—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C.; bids until Nov. 24 for remodeling postoffice and courthouse; plans and specifications at office Supervising Archt., or with custodian at site.

Memphis, Tenn.—W. I. Moody, Orgill Bros.; \$10,000 building; one story; brick; 60x80 ft.; heating plant; \$2000; Jones & Furbringer, Archts., Porter Bldg.

El Paso, Tex.—Construction Division, War Dept., Washington, D. C.; \$325,000 warehouse at Fort Bliss; 500,000 sq. ft.; frame; tar-paper covering and sides; Lieut.-Col. F. G.

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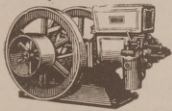
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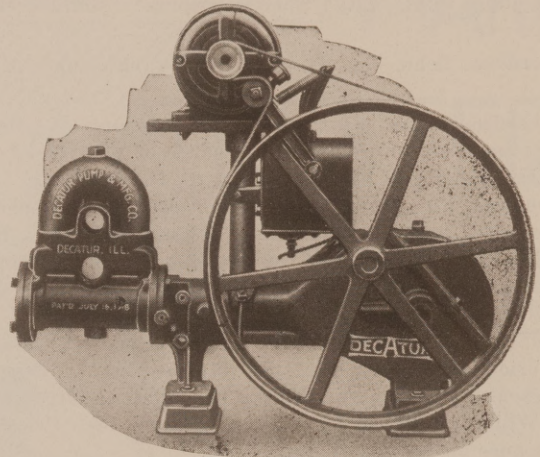
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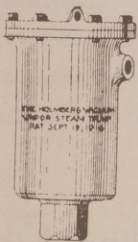
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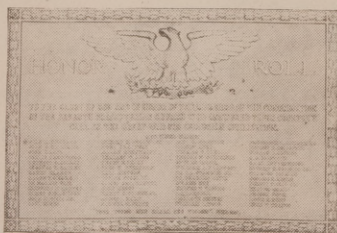
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Chamberlin, Constructing Quartermaster for Southern Dept., in charge of construction.

Greenville, Miss.—Salvation Army, Thomas F. Parker, Chrmn.; \$150,000 hospital.

Smithfield, N. C.—Chamber of Commerce; promoting erection memorial hospital.

Sapulpa, Okla.—City; \$50,000 hospital. Address Mayor Stone.

Cordova, Tenn.—Dr. H. C. Chafee; sanatorium.

Schools and Colleges.

Aberdeen, Miss.—Board of commissioners of Monroe county is considering proposed issuance of \$150,000 of agricultural high school building bonds. G. G. Ray, clerk.

DeLand, Fla.—Bids will be received until November 21 by board of public instruction of Volusia county, C. R. M. Shepperd, superintendent, for erecting school building at Ormond, Fla.; plans by Architects Mark & Sheftall, Jacksonville, Fla.

Elberton, Ga.—Building for colored school will be erected; brick and hollow tile; hot air heating; composition blackboards; sliding and folding partitions; address Architect Willis Irvin, Lamar Building, Augusta, Ga. Prices and catalogues on the partitions desired.

Gaffney, S. C.—Board of trustees of school district No. 10 will be petitioned to order election upon issuance of \$200,000 of school improvement bonds. The Chairman.

Itawamba, Miss.—Itawamba Agricultural High School building is to cost \$85,000.

Lincolnton, Ga.—Architect Willis Irvin, Lamar Building, Augusta, Ga., has prepared plans for school building; brick and hollow tile; bids are desired on erecting building; also, sub-bids on tar and gravel roofing, blackboards, hot air heating plants and millwork. Brick and tile prices guaranteed.

Bids will be opened in Lincolnton November 17, 1919. Address the architect.

Micanopy, Fla.—T. M. Bryan, architect, P. O. Box 275, Gainesville, Fla., has prepared plans for brick high school building; two stories.

Moulton, Ala.—Movement for erection of school building to cost \$10,000 has been begun. The Mayor.

Moultrie, Ga.—Proposed ordering of election upon issuance of municipal bonds for erecting school building, extending sewer system and paving streets is under consideration. J. S. Johnson, mayor.

Savannah, Ga.—Architect William B. Ittner, St. Louis, Mo., has been engaged by board of education, C. B. Gibson, secretary, as advisor on interior arrangements of school buildings to be erected.

Greenwood, S. C.—Dormitory to accommodate 24 cadets will be erected at Bailey Military Institute, Col. F. N. K. Bailey.

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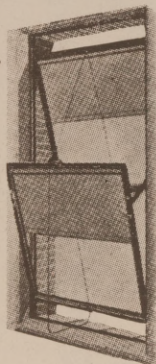
The "Sparta" acknowledged and admitted to be the most perfect and most satisfactory Glazed Brick on the market. Uniform in size, never craze nor chip off. Permanent in color and finish. "SPARTA" Brick are also made in Lemon, Orange, Old Gold and many other shades both glazed and unglazed. The most profitable line on the market for live agents to handle. High class goods with character in them that build high class reputation for the dealer and Agent.

The Federal Clay Product Co.

MINERAL CITY, OHIO.

WINSLOW WINDOWS

AUSTRAL BALANCE
WINSLOW CASEMENTS
All Solid Rolled Steel



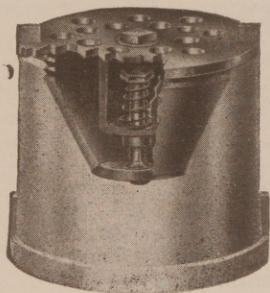
Scientific ventilation, maximum light, weather tightness, easy operation—the perfect window for Offices, Hospitals, Government buildings, etc.

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Window Department
542 W. 27th St., NEW YORK.
Branches in All Principal Cities.

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MADE BOTH PLAIN AND GOOSENECK

Simple in construction, but mighty efficient—no parts to wear or deteriorate—can be cleaned in five minutes.



Descriptive Circular on Request.

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BETTER HOMES
MAKE
BETTER
WORKMEN

Health is the first consideration. And health means contentment — ambition — greater loyalty. Without modern toilet conveniences in the homes of your workmen, you are working against the odds of human nature and medical science.

"My district is unsewered"—is no longer an excuse.

Kaustine System Toilets

REQUIRE NO WATER NOR SEWER CONNECTION

Based on principles advocated by health authorities. Dispose of sewage immediately after discharge from body. Chemical reaction insures sanitation.

No bailing, as with ordinary chemical closets. Sewage is flushed into leaching pool, by means of drain valve, after disinfection in Armco Iron tanks. Kaustine tanks and all metal parts are constructed of Armco Iron and specially treated.

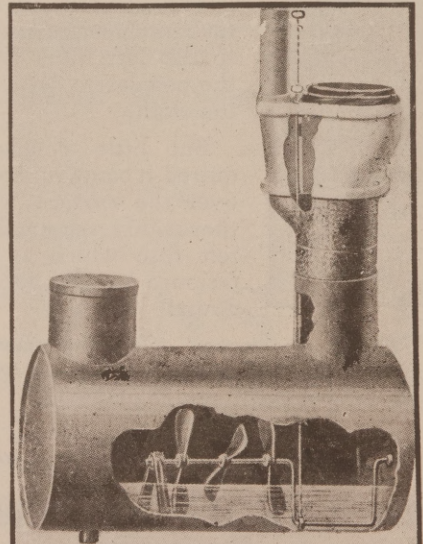
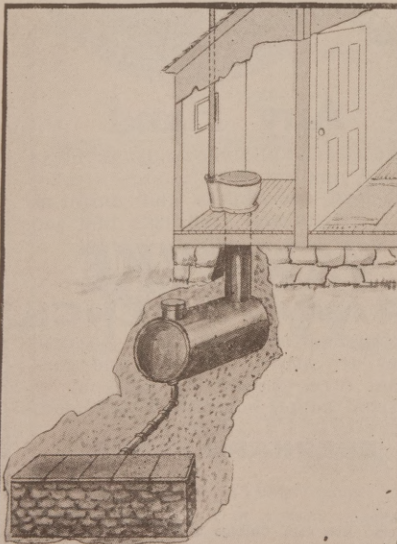
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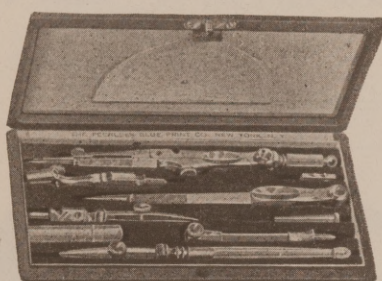
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The felt disc on cover
saves time. No cloth or
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TO prepare tracing cloth so it will take ink readily, the perforated cover of the container is turned slightly to the left, thus permitting the powder to be shaken on the cloth.

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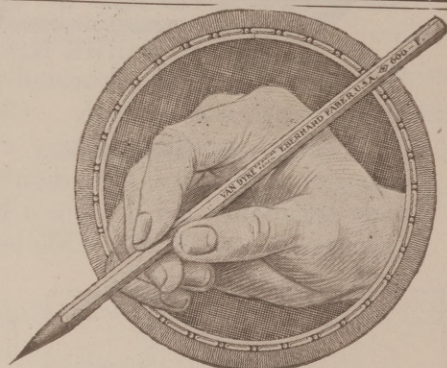
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Specify and Install

"STAR" Ventilators

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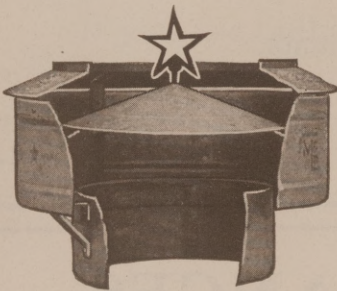


Diagram of the Standard
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Rain and Storm-Proof

"Star" Ventilators
will exhaust
more cubic feet of air
per dollar invested
than any other ventilator
in existence

CORRECT ventilation for buildings to make them habitable, and lessen the tendency to ailments resulting from breathing vitiated, foul air, is a vital problem.

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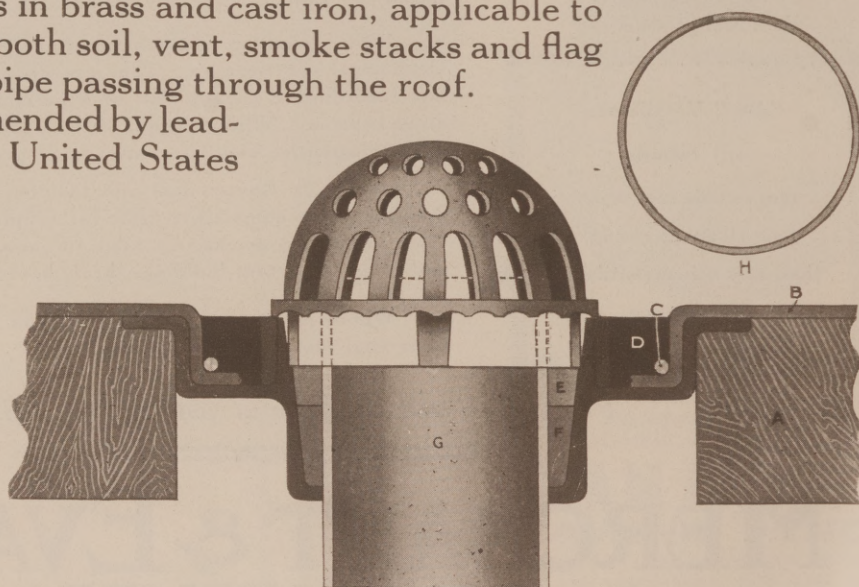
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Made in all sizes in brass and cast iron, applicable to all pipe connections, both soil, vent, smoke stacks and flag poles or any type of pipe passing through the roof.

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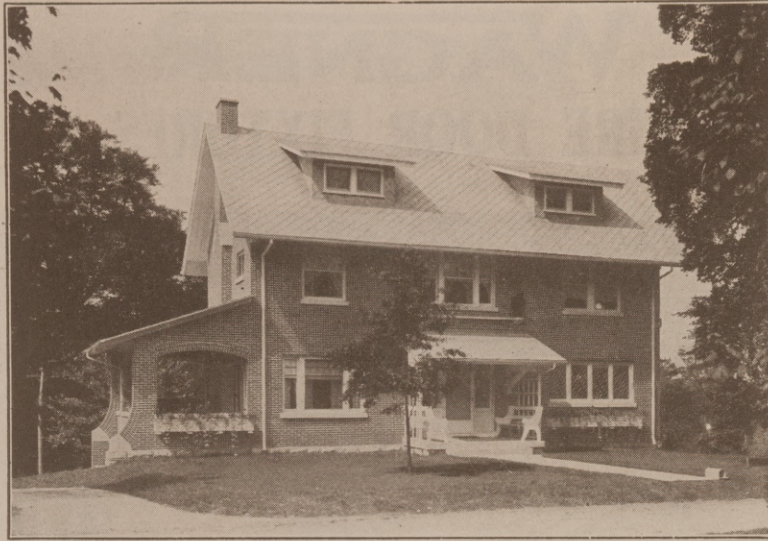
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The Ambler Asbestos built house defies fire.

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Ambler Asbestos Shingles (Century Brand). Made in 3 styles, 3 permanent colors. Lie snug to the roof forming water-tight and fire-tight covering.

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Send for samples and literature showing users and reproductions of installations.

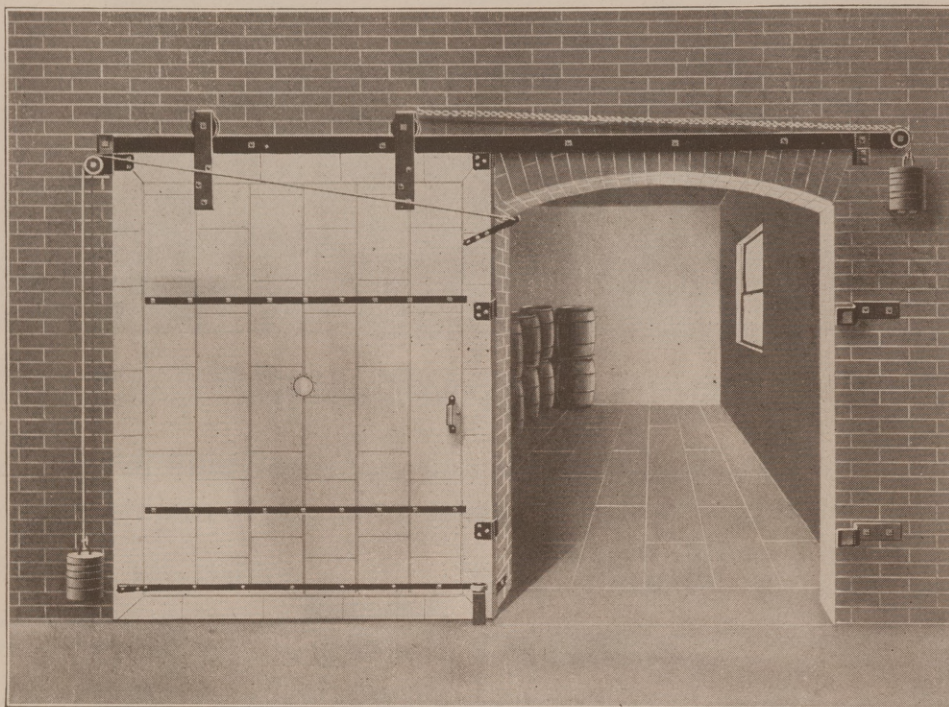
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Submit specifications of your needs—if there are any perplexing problems consult our engineering department. There is no charge for this service.

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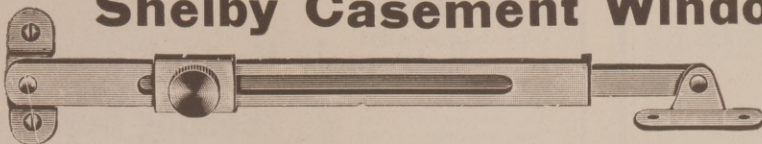
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Cedar Falls, Iowa

U. S. A.

Shelby Casement Window Adjusters



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No. 1 This Adjuster is universal for right or left hand windows opening in or out. Will hold the window positively locked in any position. Can also be used as a friction stay.

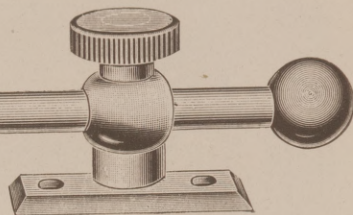
It is also furnished with brackets to be used where attachment to window casing or trim board is necessary.

No. 2 This Adjuster is for right or left hand windows opening out. It is very strong and has $\frac{3}{8}$ inch wrought steel rod made in 8, 10, 12 and 15 inch lengths.



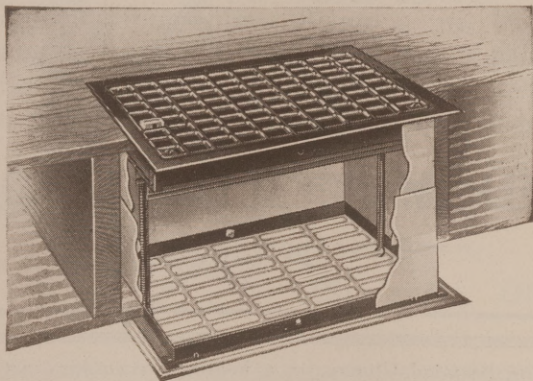
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Made at Shelby, O.
Sold Everywhere.



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The above cut represents one of the complete line of registers which is designed especially to convey the surplus heat from the lower to upper room.

It is thoroughly practical, easy to install and increases the efficiency of your heating unit whether it be a kitchen stove, parlor stove or furnace.

Let us send you our catalogue describing a complete line of warm air accessories.

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AT THE SAME TIME
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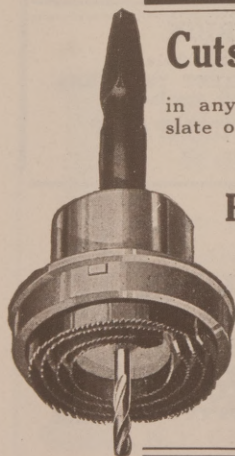
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in anything—metal, marble, plaster, tile, slate or fibre, as easy as in wood.

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Prices reasonable.
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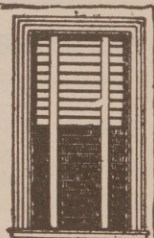
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any part of the win-
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Venetian or Sliding Blinds

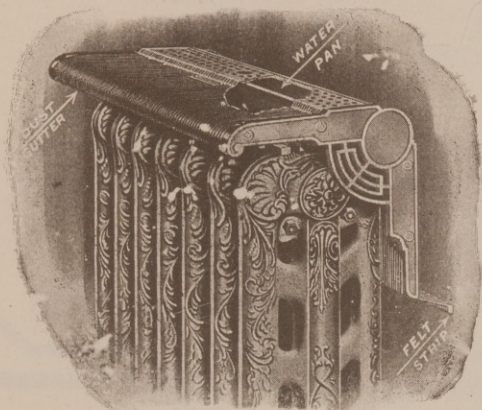
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for Windows and Doors

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Acme Radiator Shield



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You can make an additional profit on your steam and hot water jobs by including the ACME Shield. Use on old as well as new work.

Made in plain or ornamental designs to meet every demand. Acme Radiator Shields are made both with and without water pan.

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"The exclusive Furnace, Stove and Range Folks of Akron and everywhere."

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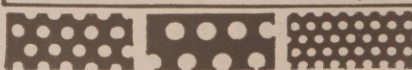
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SCREENS OF ALL KINDS

Chicago Perforating Co.

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Builders appreciate French

Quality First

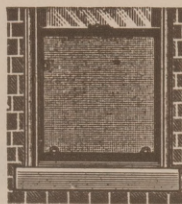
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Special Architectural
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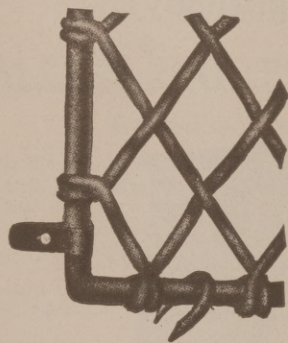
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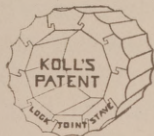
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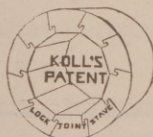
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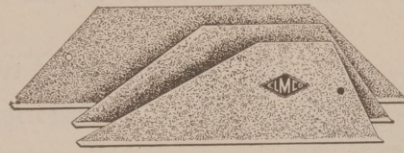
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ELMCO Handy Rafter Markers answer your need for a small building job on your farm or anywhere.



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(Patent Applied For)

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Estimates gladly furnished on basis of total cost per square foot per coat. Send us drawings or blue prints, or better still, write and our engineers will call and take up any problem calling for Speed, Economy and Durability.

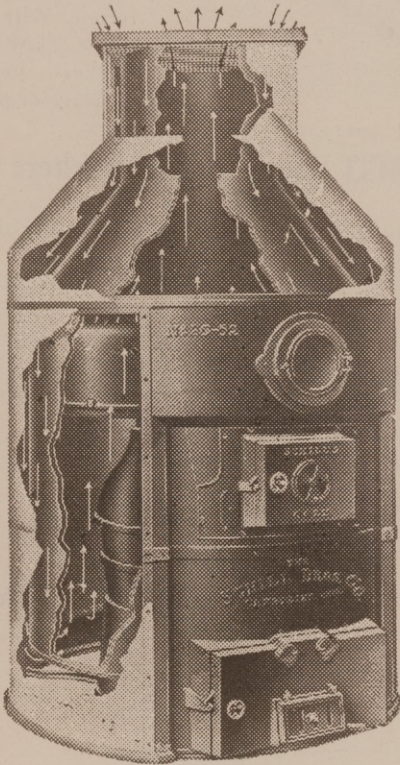
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"Our proof is waterproof—what's yours?"

COZY { The Perfect Pipeless Furnace

Stands for the last word in economical and healthful Heating

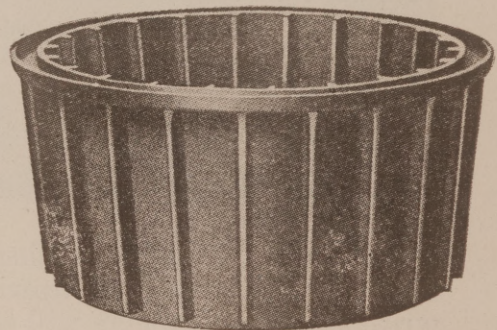


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Many thousands of "The COZY Pipeless" are now being used in the East and Middle West which opens up a vast field for new business.

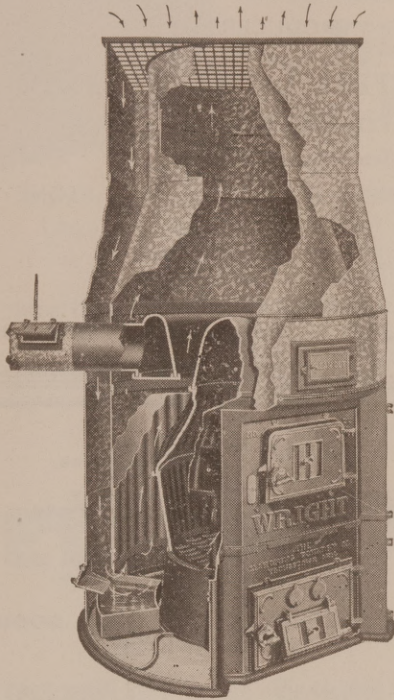
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**EXTRA LARGE GRILLS
TRIPLE INNER LINING
SPECIAL HUMIDIFIER**

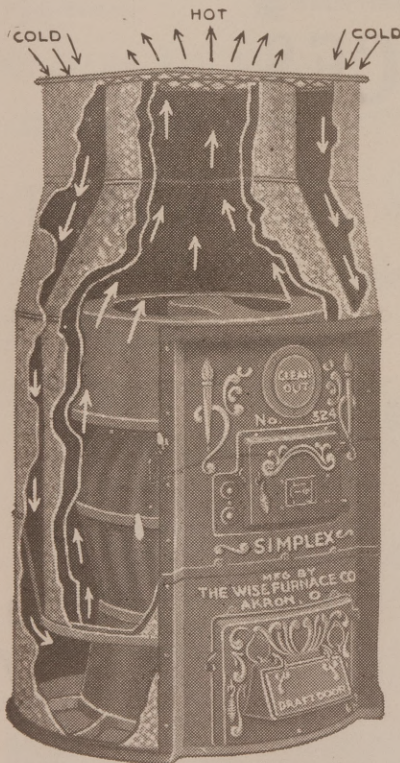
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No walls to cut. No pipes to run. No dirt. More heat. 35% less coal. Easy to install. No heat in basement. Thousands in operation and giving satisfaction. No danger of dealer losing profits by underestimating the amount of labor and material required, as furnace is shipped complete except smoke pipe.

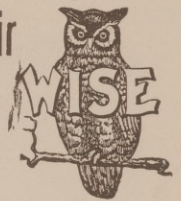
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is a simplified heating system that combines efficiency, economy, ease of operation and installation. It is especially desirable because of its eliminating numerous warm air pipes in the basement and within the partition walls, and the special cold air duct, combining the whole system into a DUPLEX CASING AND REGISTER directly over it, that provides a cold air intake and warm air discharge, eliminating all friction and loss of heat, thus saving a considerable amount of fuel and delivering a maximum amount of heat.

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The Largest Exclusive Furnace Manufacturers in the United States.

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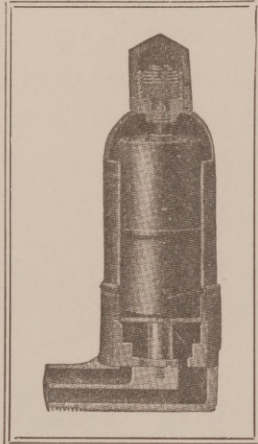
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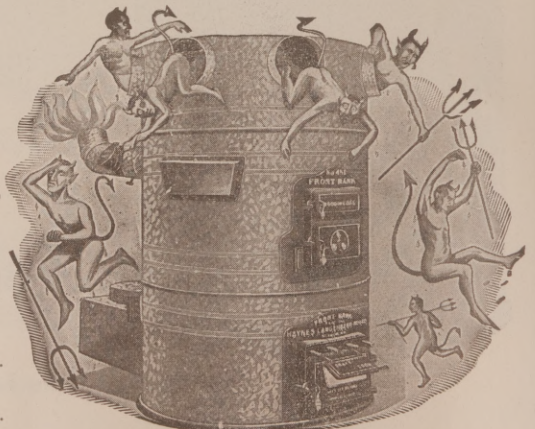
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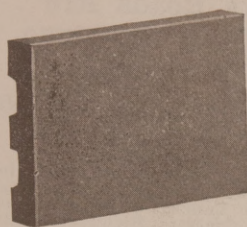
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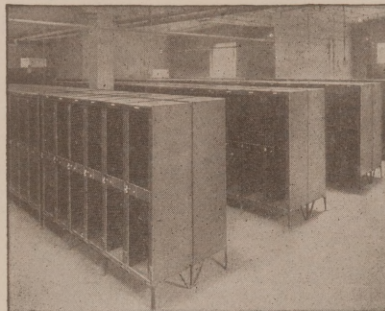
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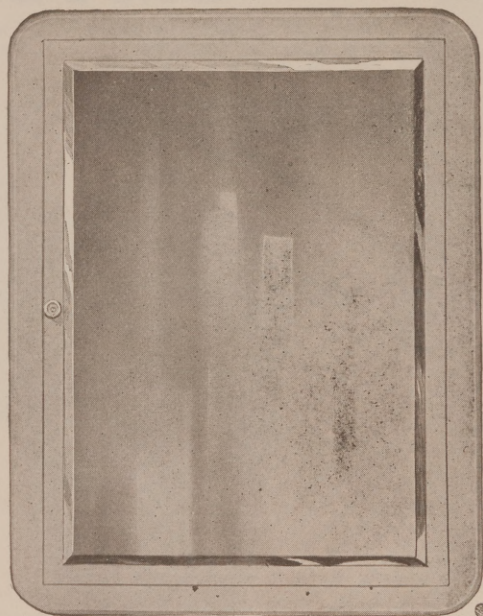
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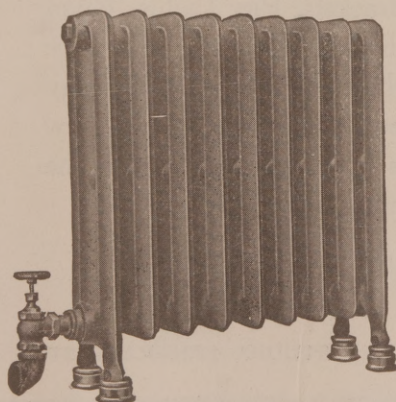


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"WHITE-STEEL" SANITARY FURNITURE CO.

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ADJUSTABLE FOOT



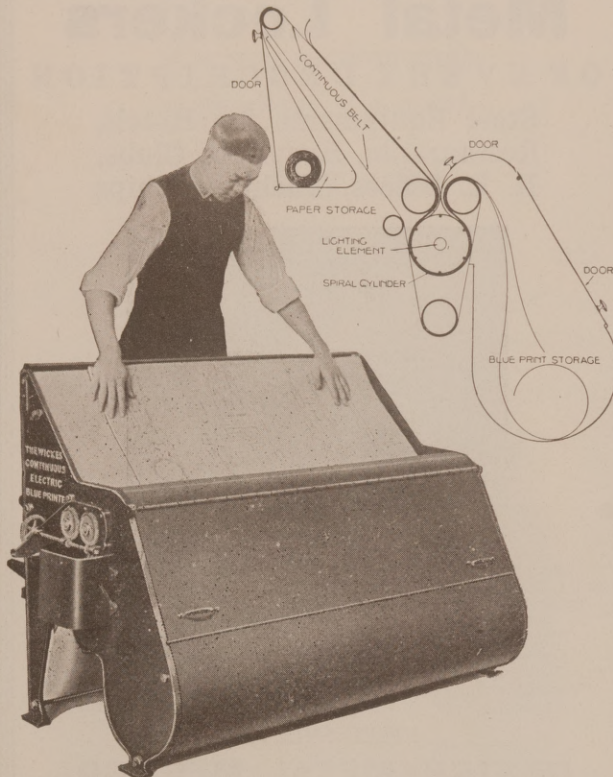
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Simply the twist
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you desire.

A sample will be
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The Wickes
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half the price. Uses half
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B & C Plates can be put on at the completion of your work and fastened securely thru a simple but positive lock joint. The B & C Catalogue shows the unique construction of our many types and tells the full B & C story. What is your name and address?

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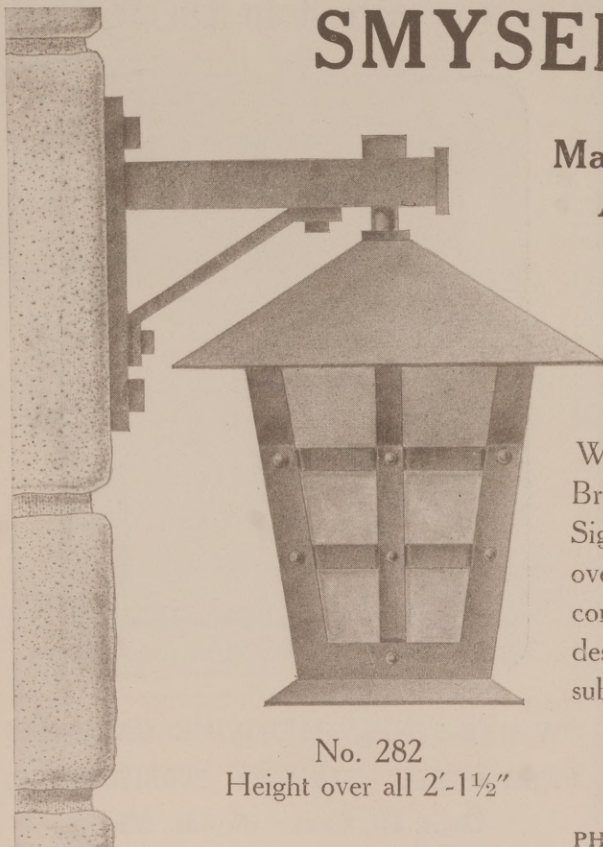
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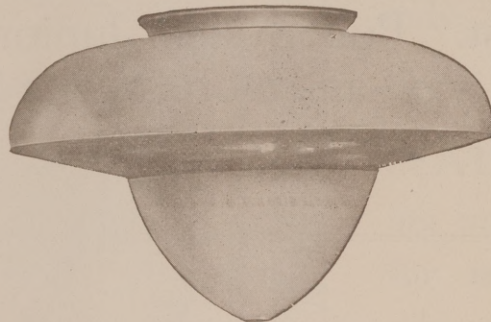
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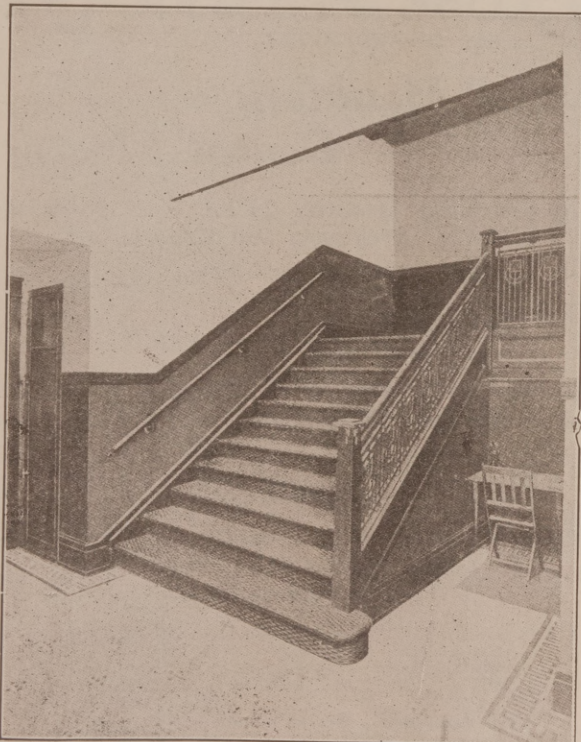
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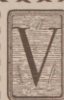
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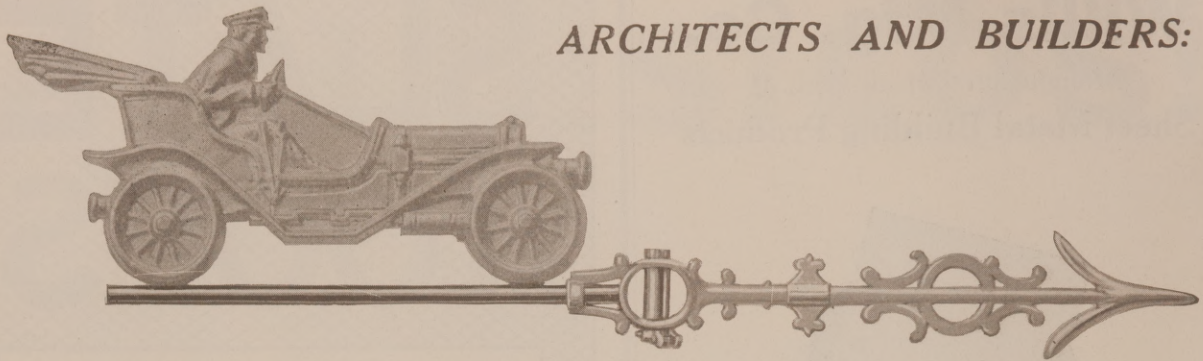
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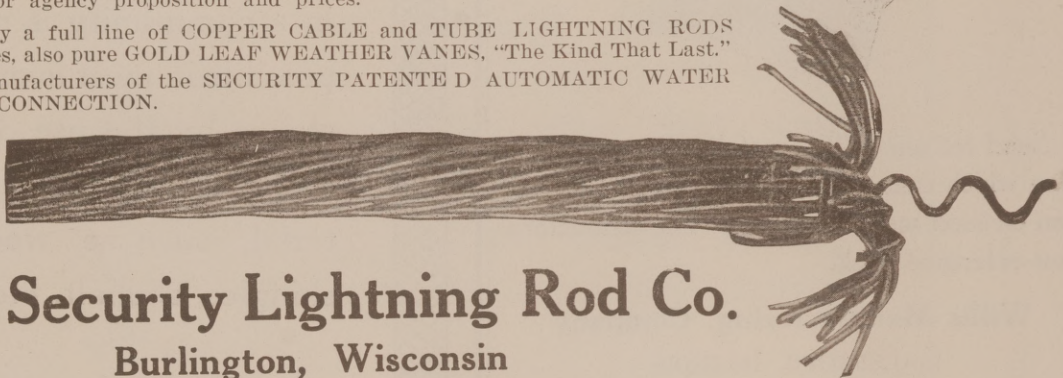
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They not only secure the permanency of your work but provide you with a handsome additional profit. Practically no extra time required for installation as building is being put up.

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Sole manufacturers of the SECURITY PATENTED AUTOMATIC WATER GROUND CONNECTION.



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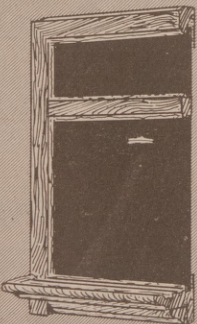
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Natural Slate Blackboard Company

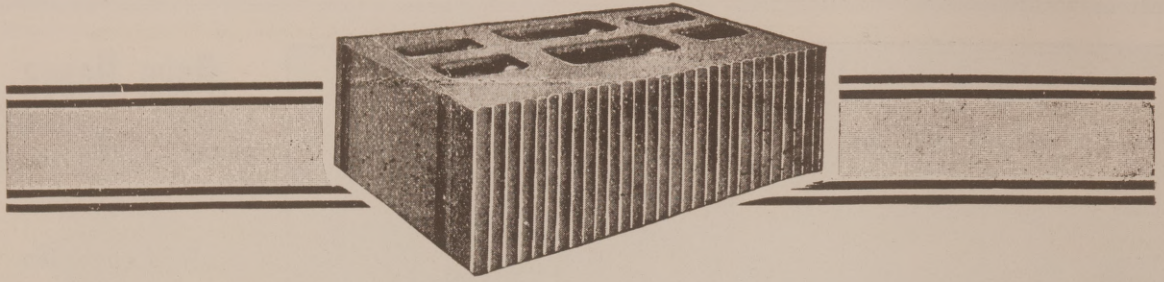
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—how you can make them at a profit

The time for you to establish a McIntyre building tile plant is NOW.

If you wait until next spring you will probably find that some more enterprising chap has already established a McIntyre plant on the very site you had selected.

The demand for building units is going to be enormous. It represents a big opportunity for live men with the right kind of snap.

Here are the advantages of the McIntyre Live Air Space Building Tile as a building material.

It is a light unit and the masons like to lay it.

It being light it does not sacrifice strength. It is dense, strong, waterproof.

It lays up a wall that admits air at the bottom and lets it out at the top under the roof plate. This blanket of live air is a perfect insulator.

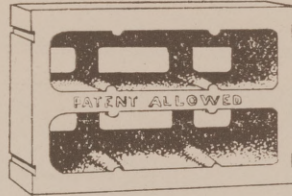
McIntyre tile walls may be put up at considerable saving over brick construction and at a lower cost even than wood frame construction.

These tile are manufactured on automatic machines in permanent plants.

The machines are operated by power and turn out from 2,000 to 3,000 building tile per day which will displace in the wall 12,000 to 18,000 common building brick.

We want to establish a McIntyre tile plant in every community where the proper raw materials are available and where a sufficient market is assured for the product.

This is a proposition to be taken up by men who have ability in handling concrete, who have the capacity for overseeing a simple manufacturing operation and who can secure the necessary selling organization.



Bottom View of McIntyre Building Tile

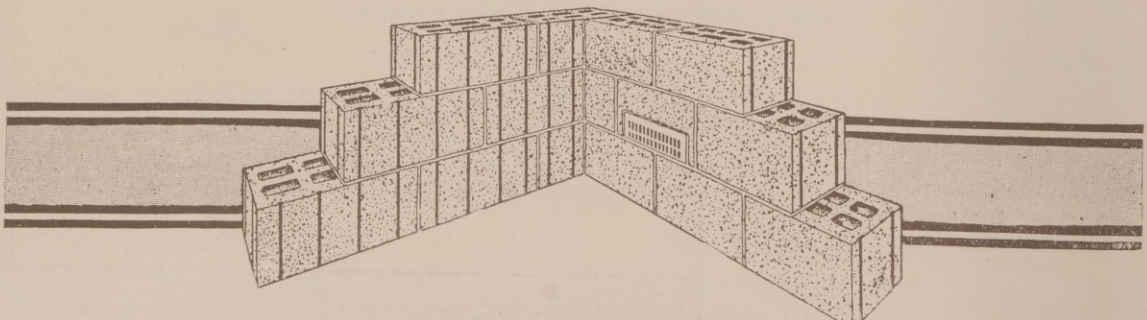
Note that this tile when laid in the wall really forms a triple concrete wall with two blankets of live air space. The design of the tile is such that it is easily taken hold of. It is a unit that workmen do not object to handling.

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The Concrete Engineering Co., Engineers Building **Cleveland, Ohio**

Exclusive Sales Agent for

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Quickly Adjustable

JACKS

Powerful Metal Shore

JIFFY**"EVERLASTING"**

FOR CONCRETE

CLAMPS

COLUMN CONSTRUCTION

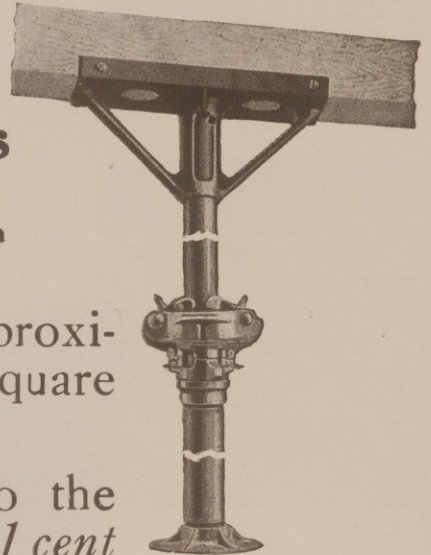
There is no comparison between

Jiffy Adjustable Jacks

and Old-Fashioned Wood Shoring
The Jiffy Jack Is a Labor Saver and a
Money Maker.

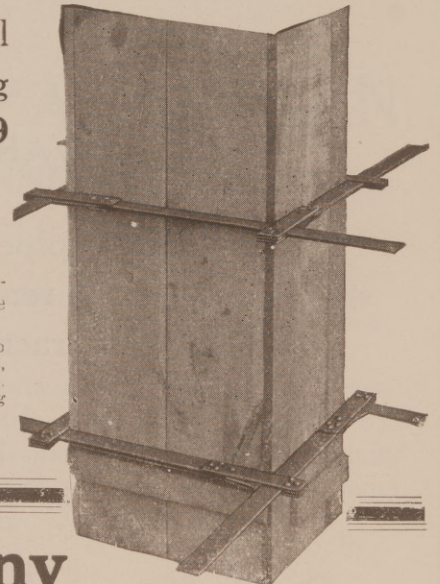
Wood Shoring costs approximately 3 1-2 cents per square foot of floor area.

Jiffy adjustable Jacks do the same work for *less than 1 cent per square foot.*

**Put In Your Jiffy Jack Equipment NOW**

Look out for prices in 1920!

The wise contractor, if he isn't already familiar with the immense advantage of Jiffy Jacks and Clamps, will lose no time in investigating and in buying at the 1919 prices.



The Jiffy Adjustable Jack
is Simple

Scientific and Efficient

Easily raised by means of a lever, as shown in the illustration.

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The cost of labor (no material) during the life of Jiffy Jacks will be nine-tenths cent per square foot of floor construction, involving no waste of lumber, nails or other material.

JIFFY COLUMN CLAMPS

Another name for Bigger Profits—Extreme Simplicity—Light Weight—Interchangeability of parts—Adjustable to the smallest fraction of an inch—No loose parts to get lost.

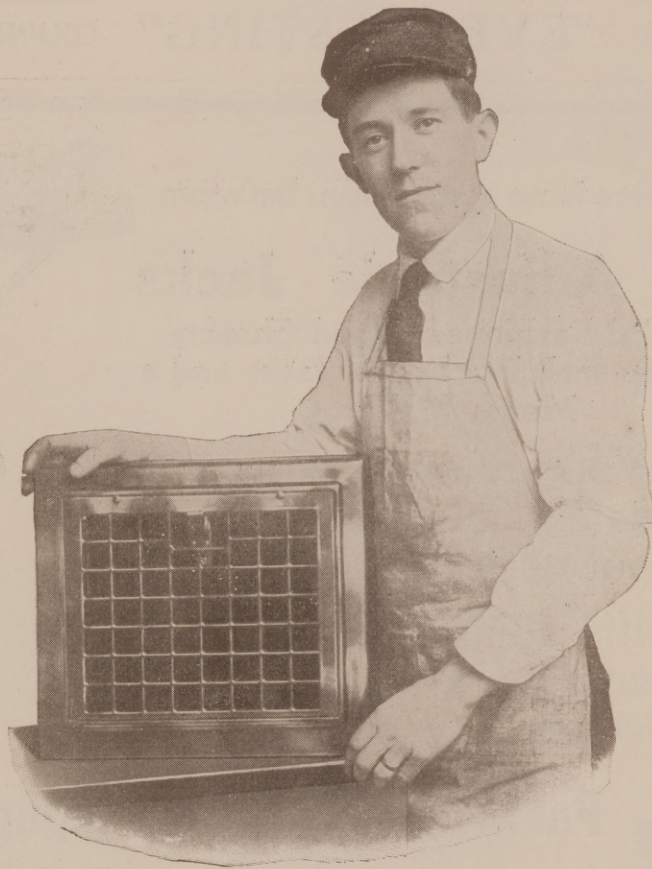
Simple and quick to set, Jiffy Clamps are vastly superior to wood clamps. They require no wedging—there is no dead space in their adjustment. They automatically square the column, and positively close all cracks. No small parts to get lost. Also made for round columns. Jiffy Equipment will help you to secure more contracts where competition is close, by reducing labor and material items in your estimates.

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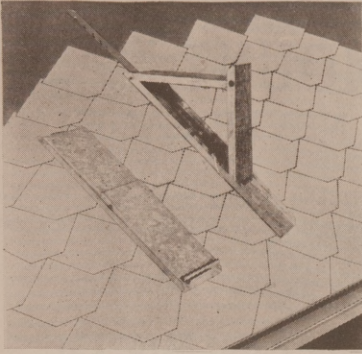
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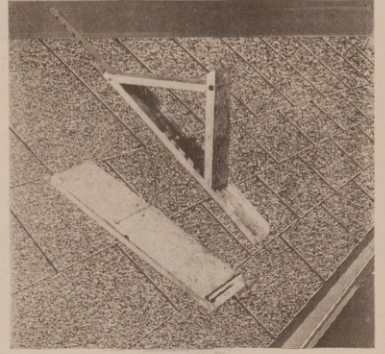
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Ask your jobber for them.

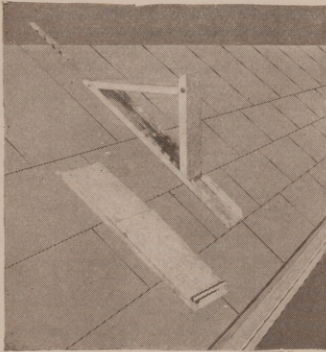
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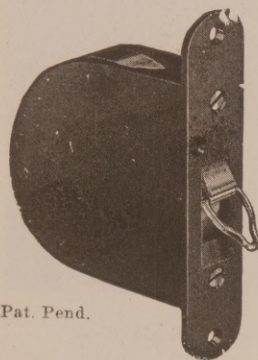
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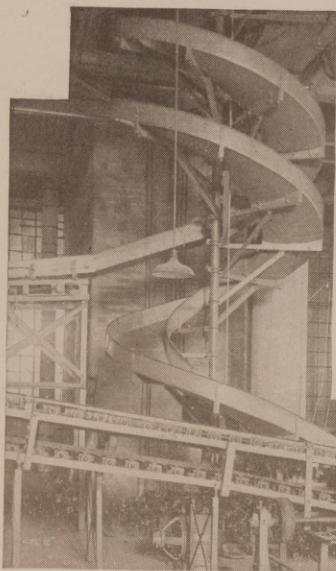
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when the need
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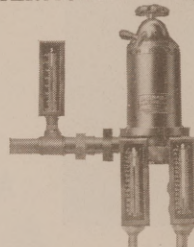
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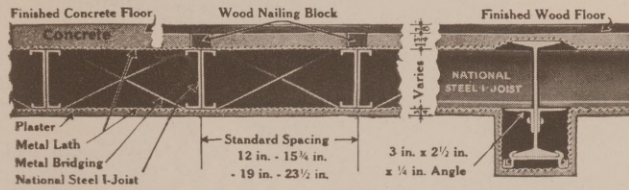
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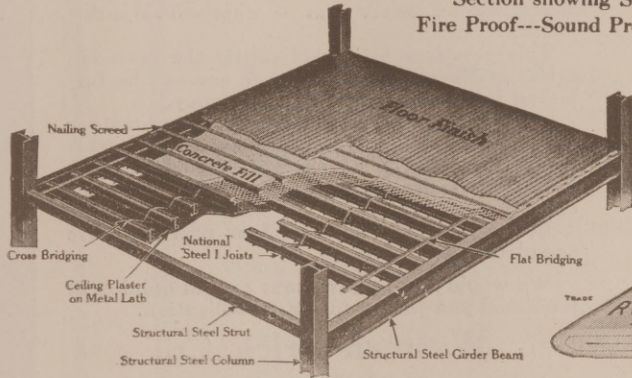
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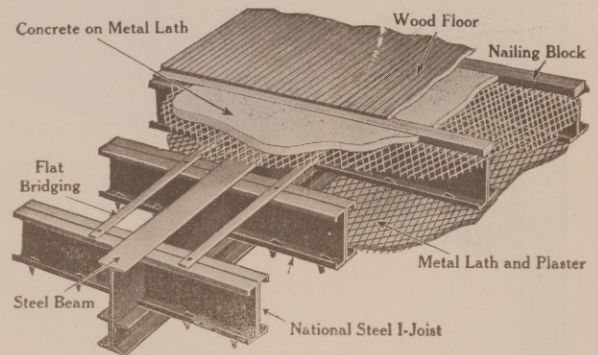
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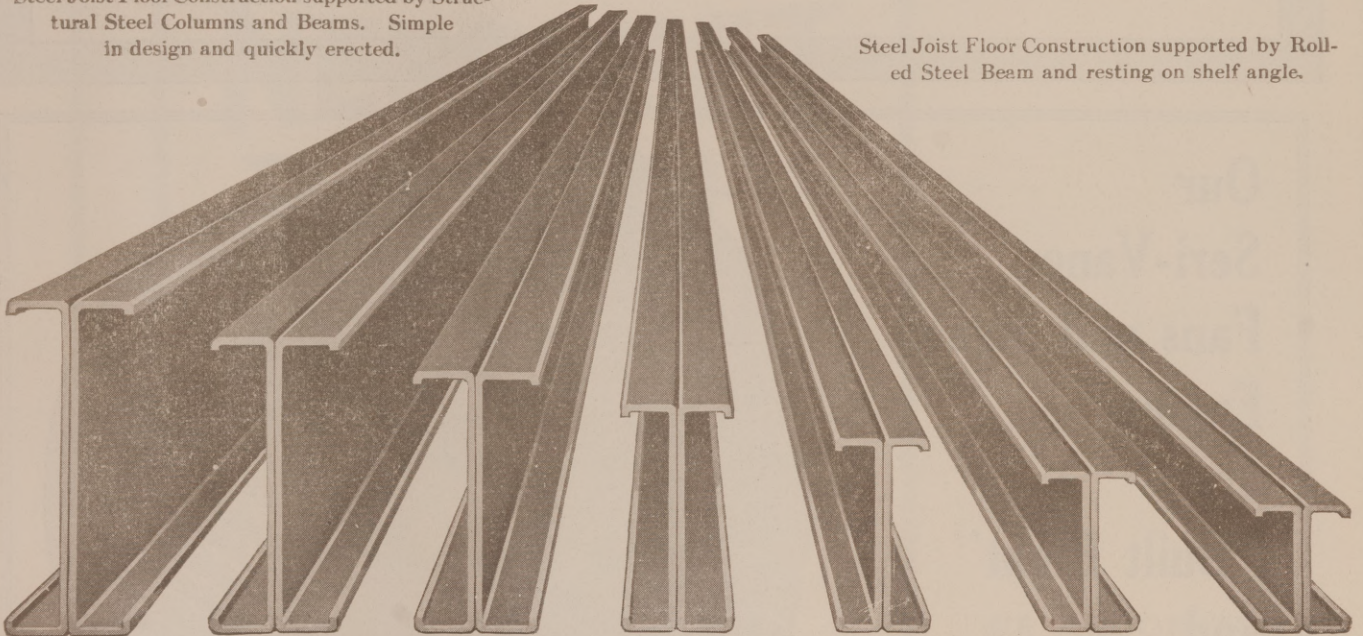
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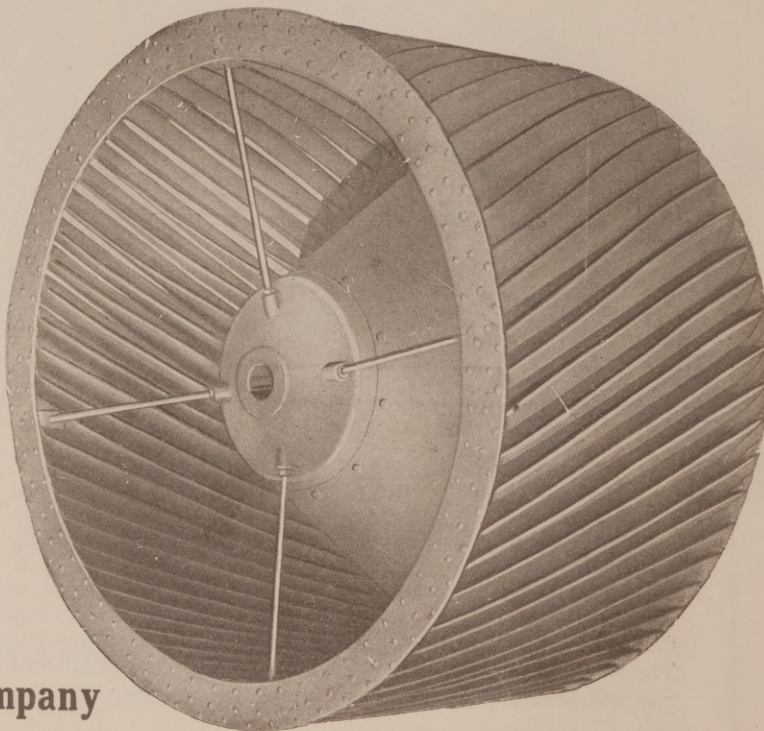
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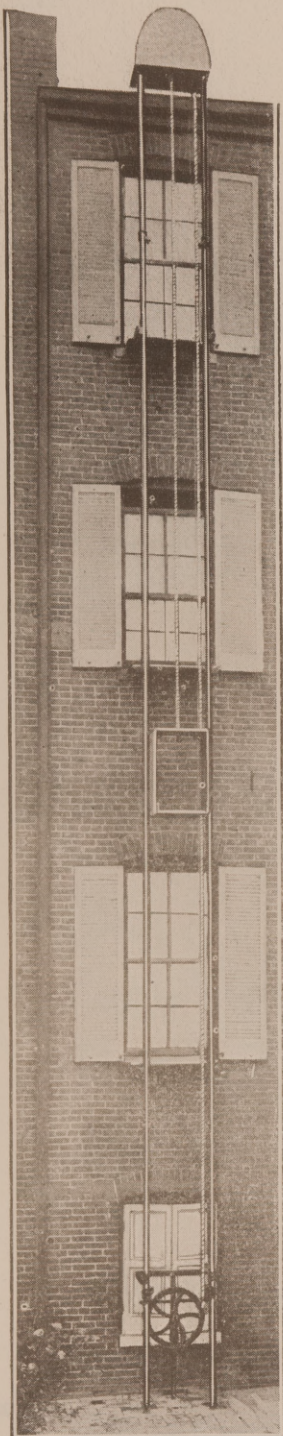
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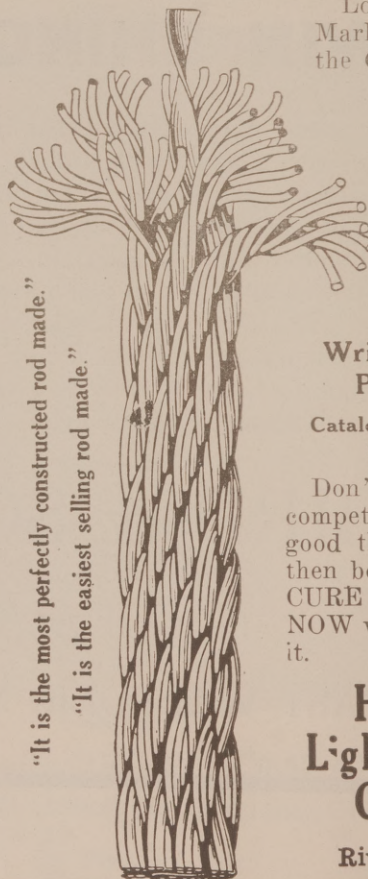
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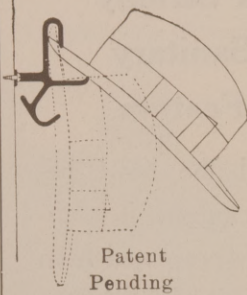
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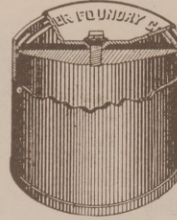
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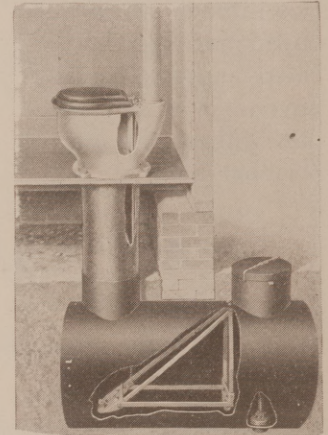
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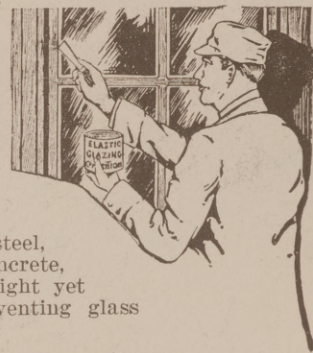
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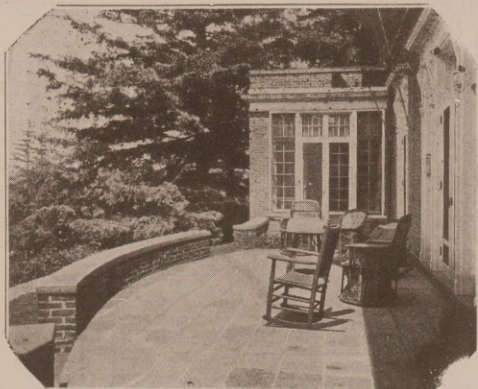
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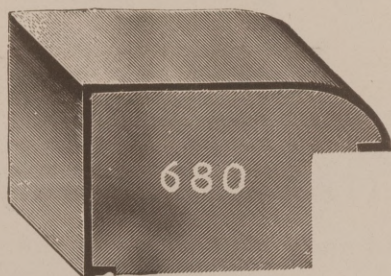
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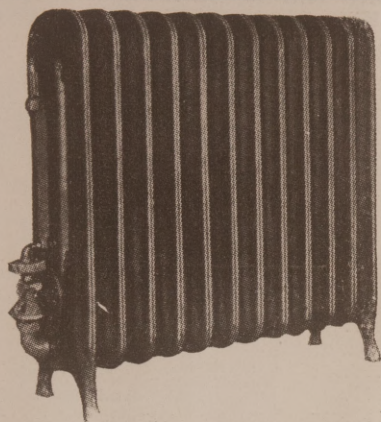
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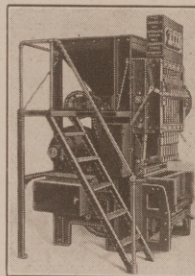
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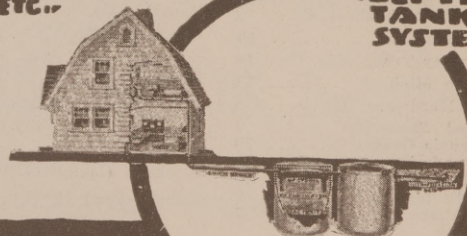
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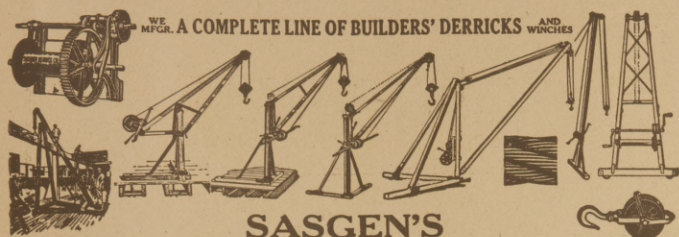
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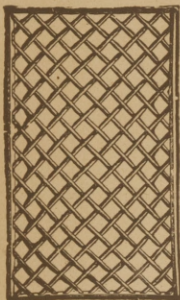
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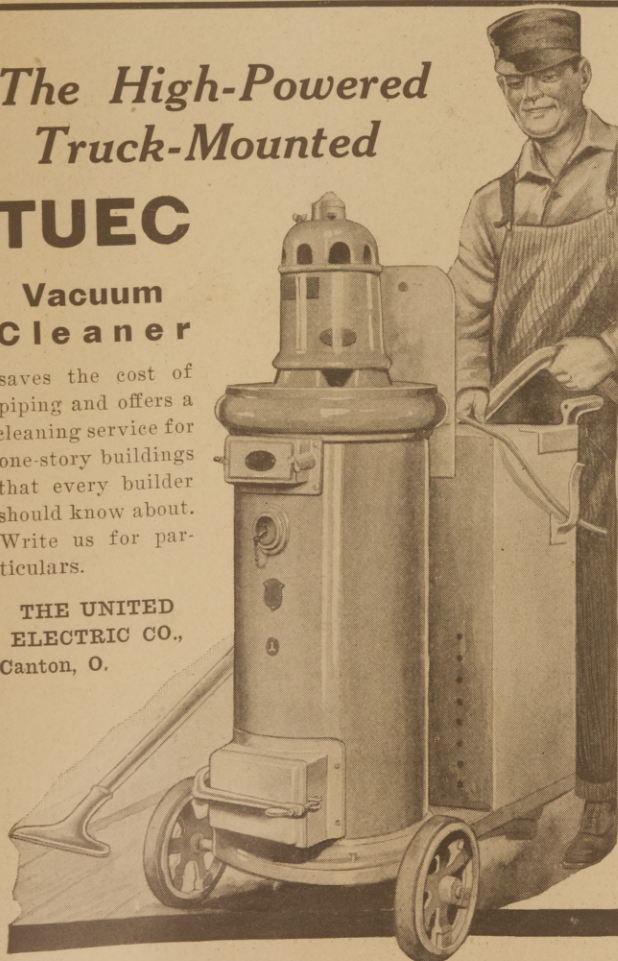
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