

Southern Architect and Building News

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ENSURE ARCHITECTURAL
STRENGTH, BEAUTY AND
SALES SERVICE.

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FOR STEAM AND
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GURNEY
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COMPLETE
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HOME OFFICE:
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MINERS, MAKERS AND SHIPPERS OF ALL STYLES AND
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Write for prices.

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Manufacturers of

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FOR EVERY PURPOSE

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RANGE BOILERS
SMOKE STACKS
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ODORLESS TOILET ROOMS

ASSURED. A SANITARY NECESSITY. NO CHEMICALS.
EVERY Owner of a water closet a prospective
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Contractors and Builders
OUR NEW CATALOG
"EVERYTHING FOR THE FIREPLACE"
FREE

Write today and secure a copy. Largest
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published.

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Colonial Bldg.
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Built by

AMERICAN ELEVATOR and MACHINE CO.

INCORPORATED

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The Hawley Down Draft Furnace Co.

Builders of the Original Down-Draft Smokeless Furnace
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Formerly of Chicago.

Easton, Pa.



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ENGINEERING
Instrument Maker

Architects', Engineers' and Contractor's
Supplies.

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ROOM"

TRANSITS and LEVELS Repaired, Lented,
Bought and Sold.
BLUE PRINTING

Both Phones Main 4083.
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Atlanta Architectural Terra Cotta
Made in Atlanta by

ATLANTA TERRA COTTA COMPANY
514 Third National Bank Building
Factory at EAST POINT, GA.

Perforated
Radial Brick

CHIMNEYS

BERGEN & LINDEMAN, Inc.

120 Liberty St.,

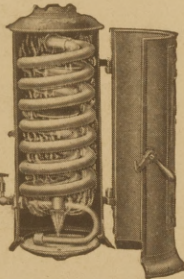
NEW YORK

Branch Offices: Philadelphia and Boston.



SANDS KEROSENE HEATER

Heats 30 gallons of Hot Water in one hour.
No wicks—no odor—
makes its own gas.
Double copper coil construction.

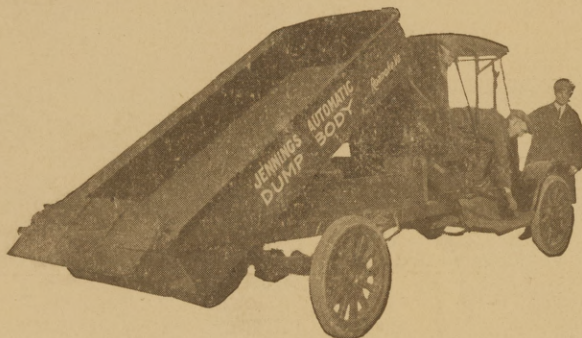


Economical—
Burns eight solid hours
on one gallon Kerosene.

*Circular and prices on
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5300 Sweeney Ave.,
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JENNINGS DUMP BODIES

This body pays for itself in time and labor saved
Quick Simple Durable Practical
A dump body that does more work and lasts longer
than more expensive bodies at less than half price.

Why waste fuel and shorten the life of your motor
when it is quicker, cheaper and easier done with the
Jennings Automatic dump body? No waiting for parts
from factory if any should break. A good blacksmith
can make any repairs. Easy to mount on any make
of truck. The load can be dumped and body replaced
in less than 10 seconds.

The body sets nearly on a balance, and when the
lever is pulled down it starts the load and gravitation
does the rest. The body is lined inside with 22-gauge
sheet steel and well supported with iron braces bolted
to the wood work, which is made of best oak timber.

Price \$175 to \$275, f. o. b. Roanoke, Va.

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JENNINGS AUTOMATIC DUMP BODY, Inc.
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"OTELLO" PAINTS

(ready mixed)

are more lasting, adhesive, elastic
than oil paints and cost half the
price of oil paints.

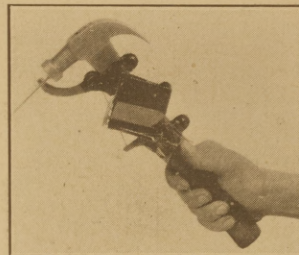
An excellent non-poisonous
substitute for red lead on steel
surfaces.

Greatest resistance against
acids, moisture, seawater.

*For prices and shade cards
apply to*

THE WILLIAM CAIL
BITMO CO.

18 Broadway, NEW YORK



AUTOMATIC NAIL FEEDER

feeds nails to your hammer.
A one-arm man can drive
nails—easy to attach to any
hammer—great time saving
device.

No. 1 takes nails up to 8d
No. 2 takes nails up to 16d
Weight only 7 ozs. Don't
hold your nails in your
mouth while you do nailing,
it isn't good for your health,
have your nails attach to
your hammer.

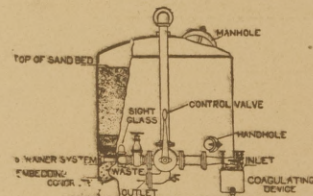
PRICE \$1.50.

BUDNICK MFG. CO.

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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.

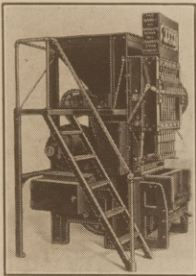
New York

TETTENBORN

Safe, 100% Sanitary
Solid Porcelain
Refrigerators

Beaver Refrigerator Mfg. Co.
New Brighton, Pa.

Brandell



All-Automatic Power Concrete Stone Machine

1600 to 2000 concrete stone building units per day, the equal of 20,000 brick. Entirely automatic. This equipment will secure you a large Builders' Supply business. For details write

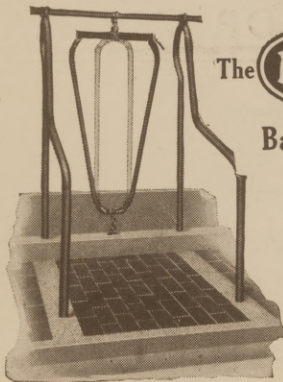
The Brandell Co.

Union Central Tower, Cincinnati, O.

**Builders Make Good Profits
and Satisfied Customers by Specifying**

More
Comfort
for the
Cow

More
Convenience
for the
Farmer



The **CLAY** Co.
Barn Equipment

It's
Different
and
Better

Just 3 Parts to Erect

No complicated attachments, connections or cumbersome castings. Just three parts to a CLAY Steel Stall—the Partition, Top Rail and Stanchion. Installed quickly and easily.

The CLAY 2-WAY Stanchion eliminates rigid posts and cow stops. It adjusts itself to fit any size cow. The Stall post and Partition is in one piece instead of two or more with complicated connections. This unique construction not only provides superior strength, maximum sanitation and is easier installed, but costs the farmer less and at the same time nets the Builder a substantial profit.

Free Book to Contractors and Builders

Send for the CLAY Steel Barn Equipment Book and learn the advantages of this most modern equipment. It will help you beat competition in price and satisfaction.

ADDRESS DEPT. 7.

IOWA GATE COMPANY, Cedar Falls, Iowa

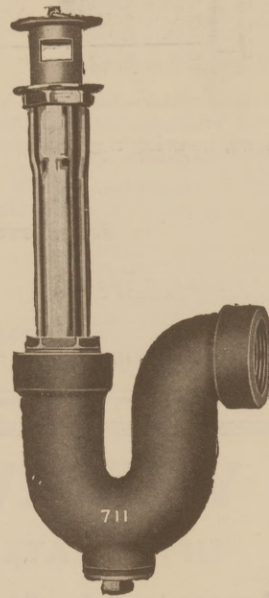


Fig. A

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

Write for prices.

ESSEX FOUNDRY

Newark, N. J.

"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**

San Francisco

Chicago

Toronto

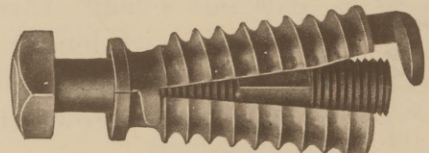
The U. S. Expansion Bolt Co.

Manufactures the Complete Line of

**Lag and Machine Expansion
Bolts, Lead Anchors and
Toggles**

Our Malleable Iron Machine Expansion Bolts have been adopted and standardized by many of the largest engineering organizations in the country.

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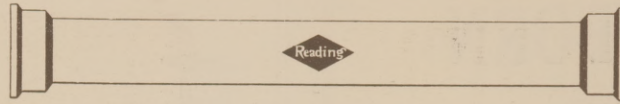
Pat. open Back Machine Expansion Bolt.

U. S. Expansion Bolt Co.

General Offices: New York Edison Building.

Duane and Elm Sts., New York

Foundry at Columbia, Pa.

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**

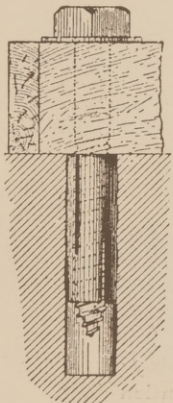
When specifying seats for a job get our Catalogue and name of nearest jobber who handles our line.

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

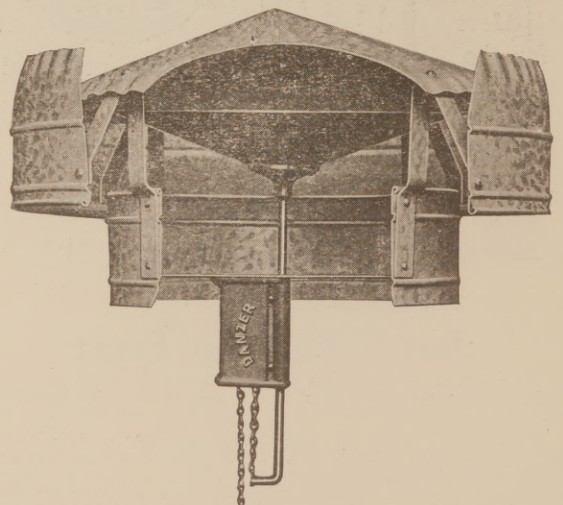
**LITTLE GIANT****Expansion Screw Sleeve**

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 Warm Air REGISTERS



Modern Design

EVEN in homes of most moderate price people want good looking hardwood floors and baseboards and registers that are in keeping. The superior finish of Columbian semi-steel and all-steel registers is just as important as their strength, large air capacity and easy working quality.

Columbian Registers are made from modern patterns and dies—no back number designs are included.

Send for latest catalog.

THE COLUMBIAN HARDWARE CO.
Cleveland, O.



Irwin Apartments,
Detroit.
Arch'tect.
Paul Kroske.
Steam Fitter,
R. P. Peckham.

*In buildings like
this they're installing*

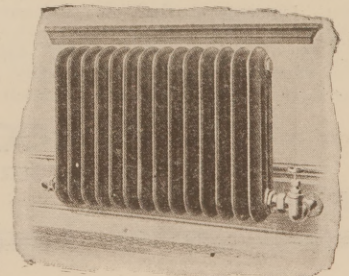
Pressweld Radiation because it has been proven better by many leading architects and heating engineers. It is the complete answer to the vital factor of heating in any kind of building.

PRESSWELD RADIATION

is equally successful in steam, hot water, vapor, or vacuum heating. Made of a special alloy, non-corrosive metal, with sections pressed and welded together—absolutely sealed against leakage—it is practically everlasting. So light it may be applied to walls or ceiling. And best of all it has been proven more economical in operation—proven by accurate and undeniable tests. Let us give you the facts. You will find them interesting.

A line to Dept. "C" will bring them to you at once.

**The American Pressweld
Radiator Corporation**
Detroit, Michigan.



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.

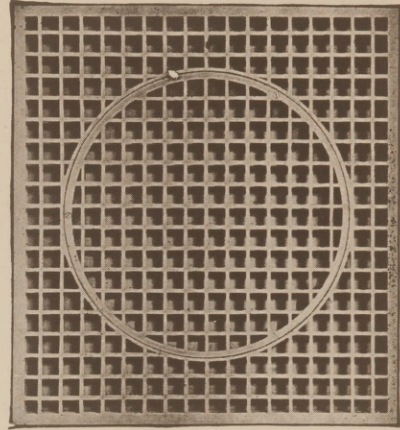
Write for samples of this material. Compare **DARK HOLLOW GRAY** with other Indiana Limestone.

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.

\$3,500 Worth of Motor Hauling Equipment for \$1,840

A good motor truck capable of hauling three tons, with body, etc., complete, costs about \$3500. A substantial saving can be effected by using the Martin Semi-trailer Method of Hauling. For instance: You can take a good one-ton motor truck costing about \$1200, add a Martin three-ton Semi-trailer, costing about \$648, and for this total expense of about \$1848 can secure an outfit that will haul three tons economically, smoothly, quickly and satisfactorily.

This is being done by hundreds of progressive business houses all over the United States, who have found the Semi-trailer method of hauling the most satisfactory and the most economical of any they have ever used.

FOR INSTANCE:

The Planters Lumber Company of Little Rock, Arkansas, who are using a one-ton truck with a 3-ton Martin Semi-trailer attached, say: "When we first purchased your outfit we were somewhat skeptical of your claim that a motor truck could PULL three times as much as it could CARRY. Our skepticism disappeared the first week the outfit was in use, and we are thoroughly convinced after the seven months it has been running, that there is nothing else on the market that can equal it in low original cost and low running expense. When we need further equipment you can count on securing our business."

C. P. Chase & Co., of Springfield, Mass., writing of their two-ton Indiana truck, with a Martin 5-ton semi-trailer attached, say: "We are able to go in soft ground where the conventional motor truck cannot go with half the load, and we are satisfied that the outfit will do the work of four or five double teams." (This was written after the truck had been in service many months.)

Many hundreds of firms give testimony to the same effect, and we have many commendatory letters from customers substantiating our claims of the merits of the semi-trailer method of hauling.

We can furnish any size of outfit desired, from one to ten tons capacity, at extremely attractive prices.

Full details, cost data, commendatory letters from customers, etc., are shown in our new catalog, just off the press.

Send for your copy today if you want to learn more about this latest and most economical method of hauling merchandise.



1 TON TRUCK FEDERAL AND 3 TON TRAILER.

MARTIN ROCKING FIFTH WHEEL COMPANY

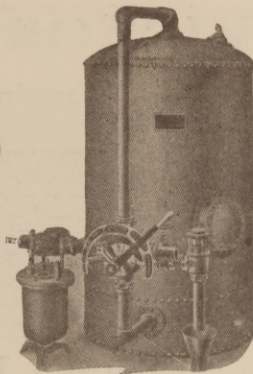
PIONEERS OF SEMI-TRAILER METHOD OF HAULING

SPRINGFIELD,

MASSACHUSETTS

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**

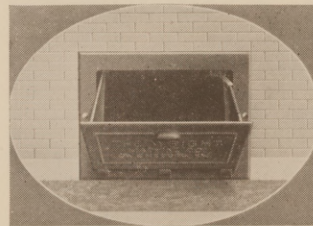


Are Mechanically Right

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.

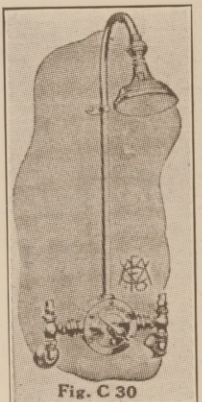


Fig. C 30

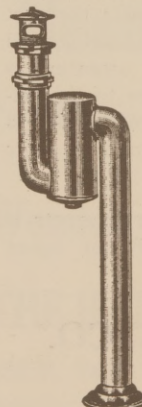
**CRUSHED GRANITE
GRANITE SAND
RIP-RAP
JETTY STONE**

ALL SIZES SHIPPED PROMPTLY

A. T. Small Quarries Company

OFFICES: 353 1/2 THIRD ST., MACON, GA.

QUARRIES: HOLTON, GA.



CLEAN SWEEP TRAP

Close to the PEOPLE'S NEEDS.

SAFE, SANE and SANITARY.

UP-TO-DATE in MAKE and APPEARANCE.

ABSOLUTELY the BEST TRAP.

A RED HOT Proposition.

A REAL TRAP.

Used by the Government in its work.

In LEAD and BRASS.

Detroit Sanitary Supply Co.

SOLE MANUFACTURERS

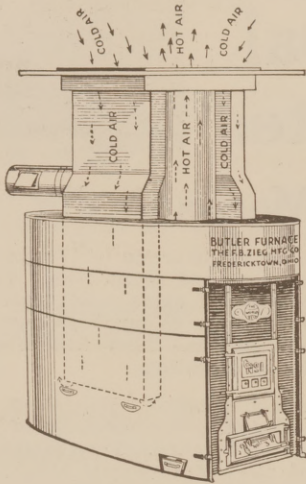
Second Ave. and Antoinette St.

DETROIT,

MICHIGAN

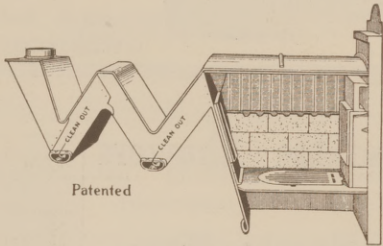
A Complete Line

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.

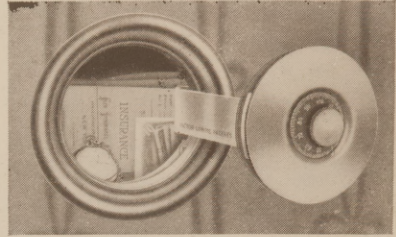
You and your helper carry it into the basement—set it on the floor—place the wrought iron base around it and proceed with the assembly. This will be found most simple as the furnace will have been previously assembled at the factory and all parts will go readily into place.

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

Trade Mark
on edge of "NO-SAG" every door

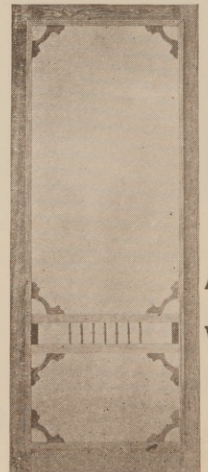
The Better Screen Door

is the Contractor's friend.

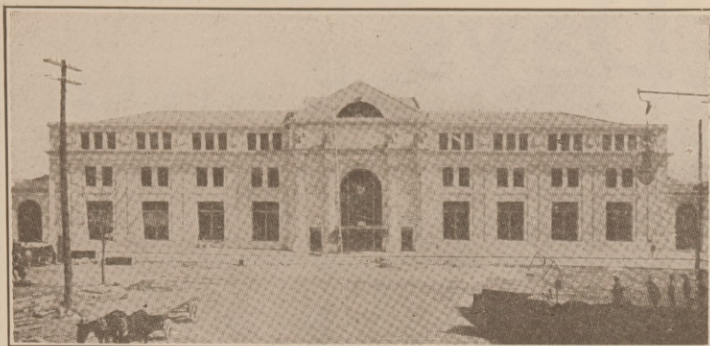
Made for front, rear and screen porch doors of houses and the strong, reliable screen doors used on offices and store buildings.

**THE DOOR THAT WILL
NOT SAG.**

A special arrangement is made for Architects and Contractors. Ask us how to buy **NO-SAG** direct.



Cadillac Lumber Co.
CADILLAC, MICH.



Terminal Station, Macon, Ga.

Alfred Fellheimer, Architect.

The entire contract for
KALAMEIN WORK

MADE BY

RELIANCE FIREPROOF DOOR CO.

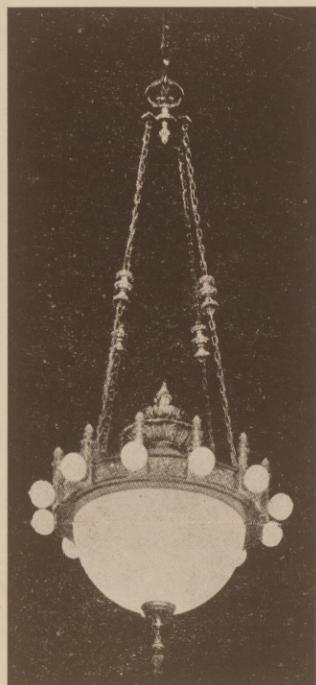
Metal Covered Doors, Windows, Trim, Etc.

Labelled Kalamein Doors a Specialty

West and Milton Sts., and
Greenpoint Ave.

BROOKLYN, N. Y.

Agents—Beaulieu & Applewhite, Atlanta, Ga.



Ornamental Lantern

Equitable
Trust
Building
New York

Made By

Bullock Mfg. Company

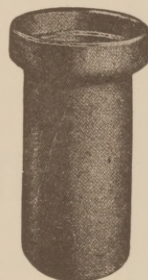
LIGHTING FIXTURES

BRASS AND BRONZE SPECIALTIES

408-10-12 West 13th Street, New York

"Sewer Pipe of Quality"

MADE OF OHIO RIVER FIRE CLAY



By test 43% stronger than competitors'
Send for special test circular.

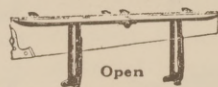
Cannelton Sewer Pipe Co.

CANNELTON, IND.

Southern Distributor—Fischer Lime & Cement Co., Memphis, Tenn.

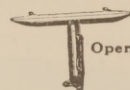
Western Distributor—St. Louis Clay Products Co., St. Louis, Mo.

Unbreakable Steel Folding Saw Vises



Open

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



Open

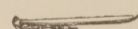
14 in. jaw, wgt. 2 lbs.

Folded



\$2.25 Prepaid

Folded



\$1.25 Prepaid

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

Buckeye Manufacturing & Foundry Co.

Successors to Buckeye Saw Vise Co.

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Notice to Architects

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

THE L. MARTIN COMPANY'S
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Special Blacks for Pointing Brick and Stone.

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Heating Apparatus

For Schools, Churches, Dwellings and other buildings.

Wonderful "Bilt-Rite" Furnaces

THE HAMMOND HEATING CO.,

130 E. Pearl St.,

Cincinnati, Ohio

In the Old Days

When you specified Cast Iron Columns, the local jobbing foundry turned out the work. You had no guarantee that the metal was clear and sound all the way through and you were almost sure that the wall thickness was not uniform. You finally became disgusted with their work and stopped using Cast Iron Columns altogether.

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you can buy guaranteed and trademarked KEYSTONE Cast Iron Columns and be sure that the metal is clean and sound. Absolutely accurate wall thickness is insured by casting KEYSTONE Columns vertically. As an added precaution we also use solid molds and metal core-bars exclusively.

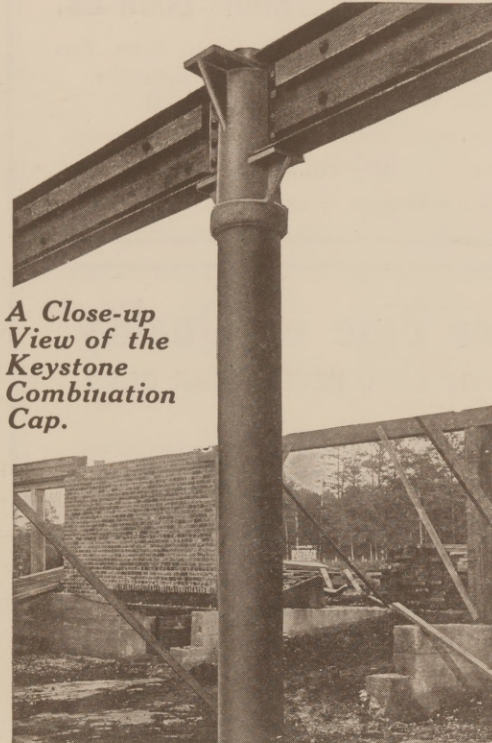
Rigid inspection and tests are given each KEYSTONE Column. Any further information you may desire may be secured from our Architect's Service Sheet which outlines the most approved application of KEYSTONE Columns. A copy of this sheet is waiting for you! What is your name and address!

Send for the Service Sheet Today.

UNITE STATES Cast PIPE and COMPANY
Iron Foundry

722 E. Pearl St., Burlington, N. J.

Southern Sales Offices: 1002 American Trust Bldg., Birmingham, Ala. Security Bldg., St. Louis, Mo.



A Close-up View of the Keystone Combination Cap.

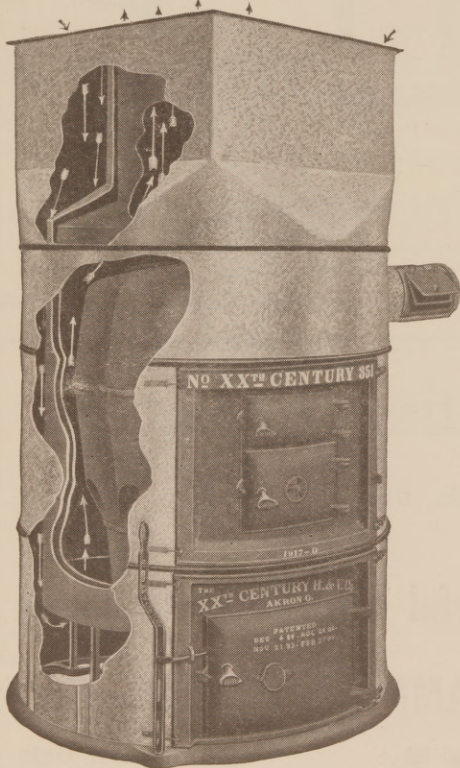
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Many customers ask their dealers about pipeless furnaces, and in a number of instances the dealers find that a pipeless furnace will meet the customers' requirements.

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Write for catalog and terms to dealers.

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Akron, Ohio.



Southern Architect and Building News

WITH WHICH IS CONSOLIDATED "SOUTHERN BUILDING RECORD"

VOL. XLIII.

DALTON, and ATLANTA, GA., MAY, 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.

Price \$2.00 Per Year.

TO OUR ADVERTISERS

*Our advertisers are requested to have copy and
cuts for changes for advertisements in this office not
later than the 5th, preceding the month of publi-
cation.*

*We cannot be responsible for changes not
made, when copy and cuts are received later, or sub-
mit proof.*

TABLE OF CONTENTS.

Editorial	11-17-23
Points for Spring Builder	31
Do Not Delay Building	34
Personal Mention	37
Prices Will Never Drop	37
Pretty Garden Furniture	39
North Carolina Architect Bill	44
Improvement Shown in March Building	46
Foreign Trade Opportunities	51
Trade News Notes	52
Building News Items	53

Make Building Arrangements at Once.

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 ma-
terials 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 be-
tween 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 in-
creased production have not received the additional
building that was necessary.

So now, all at once, city and country are rushing
into the market to procure their necessary building
supplies. Is there a sufficiency of building material
in the country to meet the demand? This is the
question. Each day the demand grows stronger.
The cities in particular are doing their best to get
themselves supplied with material.

Here is where the farmer 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 having 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 reli-
able firm to have it delivered as soon as possible and
the buildings erected. Then, if there should 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 can be filled immediately after they are re-
ceived. Get your buildings up now, while a good
supply of material is available, and provide against
the time when you must have them.

Architects and Advertising.

The following paragraph, culled from the Ad-
vertising World, is another sign of modern advance-
ment. It is too much to expect that one of these
days we shall see several pages of The Southern
Architect and Building News filled with advertise-
ments of our most distinguished architects?

I see the American Institute of Architects has
removed the ban which debarred architects in the
United States from advertising. The Institute will
not, however, go so far as to advocate the practice

In its official organ the Institute defines the rea-
sons which have led to the change, paying therein
a tribute to the wider part which advertising now
plays in our everyday life in "the study of markets
and the analysis of business in order to increase
sales and open new markets." In fact, the Institute
realizes that good advertising is not such a dreadful
thing after all. Finally the Institute organ says:

"Advertising as a word thus began to stand for
a variety of selling forces which could scarcely be

enumerated. The architect, obliged in some manner to make his name known, could no more escape the utilization of some form of it than he could escape the use of the post for carrying his letters."

Build Schoolhouses.

"Build schoolhouses," says Dr. P. P. Claxton, United States commissioner of education.

"Previous to our entrance into the war we were spending in the United States a hundred million dollars a year on new schoolhouses, but at this rate we were in no wise supplying the need. Hundreds of thousands of children in the lower grades were on half-time attendance, and millions attended schools in houses wholly unsuited to school use, according to modern standards—badly ventilated, poorly lighted, and otherwise unsanitary.

"For the two years of our participation in the war schoolhouse building almost ceased, and there are now both the need of 1916 and the accumulated need of the two years of the war, larger than in normal times because of the unprecedented shifting of the population.

"To supply these needs will require not less than five hundred million dollars of buildings, to be completed by the time of the opening of the schools in the fall of 1920. It is very important, therefore, that legislatures, county and city councils, and boards of education all over the United States immediately take the necessary steps for this building and for the raising of money necessary for it.

"In view of the part which popular education must play in the new era there can be little or no objection to any expenditures for buildings that may be necessary for the full efficiency of our school systems."

Finds But Little Pessimism.

There is but little pessimism in the trade, in spite of the continued high prices, states Building Age, editorially. The feeling is growing that prices will hold steady; it is to be hoped that government efforts looking to this end will prove effective in removing any remaining uncertainty.

In country house construction, a suburban firm of architects and builders who have kept careful track of their costs during the war, report to us that their records show a high mark of 35 per cent over pre-war costs last fall, with present prices between 20 and 30 per cent over before-the-war costs. Our own investigations in non-fireproof construction show this to be about right. Fireproof construction has shown a greater increase.

The fact that costs in non-fireproof construction, which is largely residence work, have not risen to so great a degree as have fireproof construction costs will logically see the stimulation of residence work,

which will probably be well under way before city building.

Architects are beginning to feel business flow their way, and although much of this work has of course not yet reached the contractors, it can be expected to be in their hands in the near future. When the Fifth Liberty Loan is out of the way loans will undoubtedly be made more freely. All in all, the outlook is bright indeed.

Spend Wisely for Construction.

We need good roads. **Make them.**

We need buildings—home—public and industrial. **Construct them.**

We need more railway trackage and equipment. **Produce them.**

We need homesteads for many of our returning soldiers. Drain the swamp and irrigate the arid lands and they will "blossom like the rose."

Possibly 50 million, certainly not less than 30 million horsepower, is literally running to waste in our streams. We need industrial power. Harness the streams. Build the dams, construct the power plants.

The **immediate** carrying out of only a fraction of our needs in these lines of production will put to work every idle man and every idle dollar.

The **purchasing power** of the labor and capital thus profitably employed, plus normal demand, will keep every wheel turning, every factor of commerce busy at top speed.

Every dollar wisely expended on productive lands, buildings, railways, good roads, power plants and similar undertakings is an addition to the permanent wealth and industrial progress of the nation.

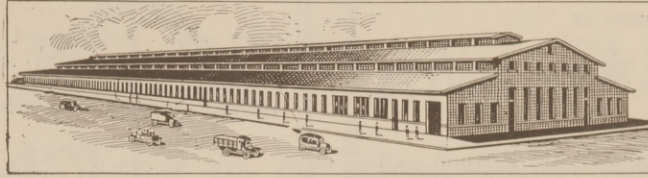
Plan Your Building Now.

The Southern Architect and Building News would advise making plans for that building right now. Everywhere, especially here in the South, there is going to be a period of unusual prosperity to make up for the more than four years stagnation when the public did not know just what to expect.

Now that real peace is so near at hand there is a brighter outlook, and, according to E. G. Grace, president of the Bethlehem Steel Corporation, who predicts "a period of unusual prosperity supported by an era of construction" after American manufacturers have put their whole economic structure on a normal peace-time basis.

Thrift vs. Stinginess,

Stinginess puts savings in his sock, lives an empty life, and dies a miser. Thrift puts savings into a home, raises a family, gets the most out of life and benefits his fellowmen and his country. Burn the sock and build a home.

INTERNATIONAL STEEL & IRON CO., Evansville, Ind.**S
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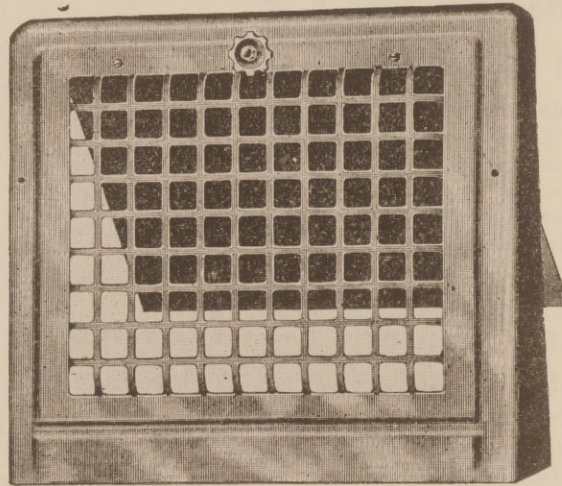
Warehouse and Fabricating Plant—Evansville, Ind.

IRON AND STEEL

Standard and Bethlehem carried in Warehouse stock for Immediate Shipment.

STEEL FOR BRIDGES AND BUILDINGS

Fabricated Promptly.

Elevators, Cornice and Skylights
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Write for General CatalogueMillwork and Glass, Ornamental Iron
Certain-teed Roofing.**STEARNS' STEEL BASE REGISTER**

represent the very latest in register construction. Their distinction is the result of combining these quality features—

DESIGN—simple, neat and very attractive.**FINISH**—very high (in black or white japan orelectroplated finishes).**MATERIAL**—the very best obtainable.**CONSTRUCTION**—durable (guaranteed against breakage).**OPERATION**—absolutely perfect.**CAPACITY**—full, both in face and box, for the size pipe it is intended for.Let us convince YOU of the soundness of these merits, investigate **STEARNS' STEEL BASE REGISTERS** today.**STEARNS' STEEL BASE REGISTERS** can be had in five sizes ranging from 8x10 to 11x13.**WRITE FOR FULL PARTICULARS AND CATALOG TODAY.****STEARNS REGISTER COMPANY**

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Passenger and Freight.
All Powers.****TURNER ELEVATORS****K. C. ELEVATOR MFG.
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KANSAS CITY, MO.**Your Metal Problems Solved**We are supplying some of the most prosperous Brass
Goods Manufacturers with our**YELLOW
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(H. I. M.)
INGOT
METAL**

Why not join them? Write for information and prices.

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Conkling-Armstrong Terra Cotta Company

Manufacturers of

ARCHITECTURAL TERRA COTTA

in all colors and finish—Standard, Enamel and Polychrome.

We will be pleased to furnish approximate figures or final estimates, without obligations.

Main Office and Works: Philadelphia, Penna.

Running Water--under pressure --for strictly modern homes

Without an adequate supply of running water—under pressure—a home cannot be strictly modern. It is the one essential needed in every home, and everyone who does not have access to city water mains may have this convenience for their homes by the installation of a

Hoosier Pneumatic Water Supply System

Hoosier Systems operate from any kind of power, electric motor, gasoline engine, windmill, or hand. They are easy to install, economical to operate, and give many years of service. Hoosier Tanks are coated inside with Anti-Rust Enamel, preventing rust and corrosion.

Hoosier Systems may be had in various sizes, suitable for homes of any size. Investigate the merits of Hoosier Systems without delay. Write for complete information.

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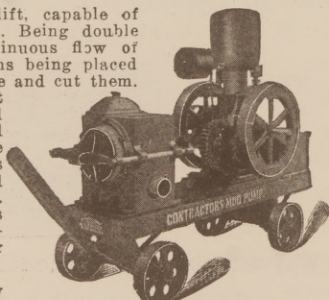
KENDALLVILLE,

INDIANA

No Boiler, Engineer or Fireman Is Required for Our Contractor's Pump

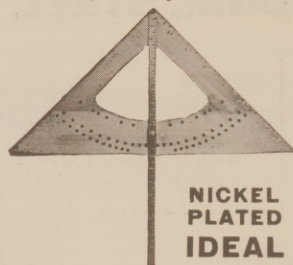
It has an extreme hi-h lift, capable of producing 24-inch vacuum. Being double in action, it gives a continuous flow of water. Its two diaphragms being placed vertically, grit cannot lodge and cut them. Working horizontally, it does away with all overhead work. Mounted on solid truck, it is easy to move from place to place. Its compactness reduces needed floor space to only 2x5 feet. Its weight is 1000 lbs. Has no plunger, plunger packing, stuffing boxes or spring valves.

Our Circular Explains Fully



A. A. PARKER, Front Street, WATERFORD, N. Y.
New England Agents: Perrin, Seamans & Co., 57 Oliver St., Boston, Mass.

TRY SQUARE, RAFTER SQUARE, MITRE SQUARE



NICKEL
PLATED
IDEAL

Makes all rafter cuts—Common, shorts, hips and valleys.

The Ideal rafter tables give full length of all rafters (free with illustrated instruction book to buyers).

Makes all mitre box cuts. A great try square.

The bar swings and locks for every cut.

A wonderful tool—simplicity, speed and accuracy combined.

Mailed on Receipt of \$2.00.

IDEAL TOOL WORKS, MIDDLETOWN, N. Y.
Privilege to return money hereby reserved, in case of shortage of material.

"HAYNES" & "HOFFMAN" Specialties Save Fuel

Our Booklet on modulated and Vapor heating is full of instructive matter. It also illustrates and describes these specialties. Send for your copy.

Haynes Selling Company

1711 Sansom St.

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Double Drainage Shower Traps and Drains Feature No. 9

Victor traps are designed so compactly as to avoid cutting away construction work to install them.

Licensed under Patent No. 855017.

If your jobber does not carry Victor Traps, mail your order direct to us.

The Victor Brass Mfg. Co.
Cleveland Ohio

SILVER LAKE A Sash Cord

The guaranteed sash cord (since 1869 the standard) not only outwears common cords, but outwears chains and ribbons. The name Silver Lake A is printed on every foot of the genuine. Guaranteed full lengths.

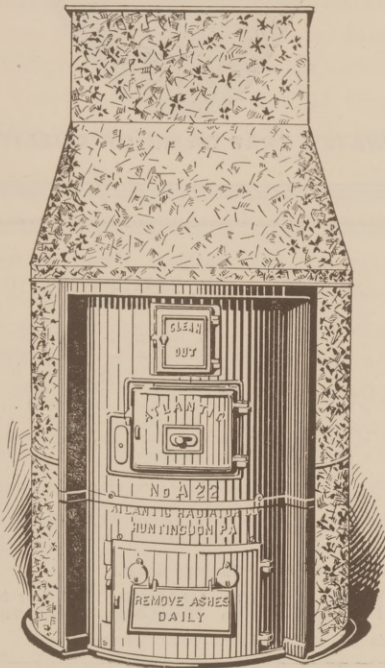
Silver Lake Co.
Newtonville, Mass.

The Practical Workman is
Sure to know the Reason Why



ATLANTIC PIPELESS FURNACE

The Last Word in Efficient Heating Service



Before installing any other kind, consult us. We can show you the points of excellence which will make you our customer. All we ask is a chance to show you.

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General Offices:
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Works:
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SINGER CHIMNEY CO.

(Not Inc.)

Engineers and Builders of

Radial Brick — Common Brick — Reinforced
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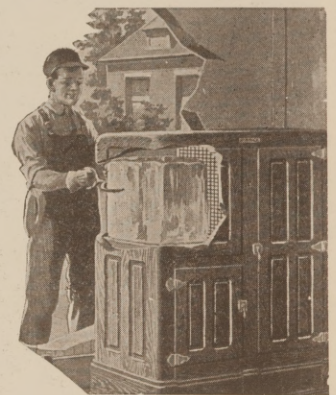
CHIMNEYS

Home Office: CHICAGO, ILL., 1553 Monadnock Bldg.
ST. LOUIS, MO., 1906-12 Pine St.

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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 iceman out.



The

Herrick Outside Icing Refrigerator

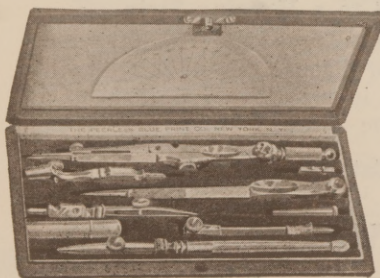
is winning praise everywhere. Hundreds of builders, contractors and architects are availing themselves of the Herrick Free Plan Service. Planning and making the outside icing openings right is important. Let us guide you.

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.



Special Drawing Set

No. 450-A

Price \$4.65

Sent parcel post
prepaid
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We have also a full assortment of large sets of
instruments.

PEERLESS BLUE PRINT CO.

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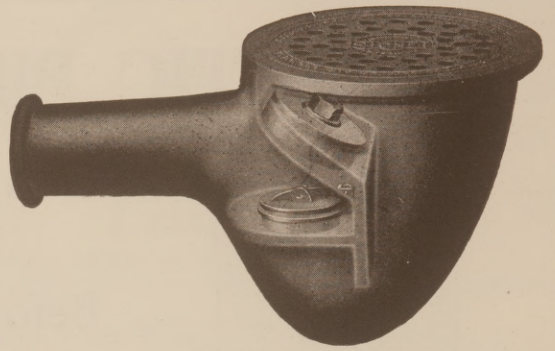
NEW YORK CITY

SIGNET FLOOR DRAIN

The quality of material, the superiority of design, the absolute safety and reliability of operation, recommends the Signet for all high-class work where permanent satisfaction is sought.

Write for circular

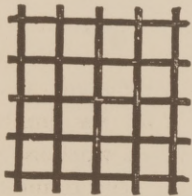
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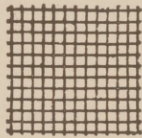
THE BACK WATER TRAP DRAIN OF QUALITY

"If it's made of Wire we make it."

ESTEY WIRE WORKS CO.

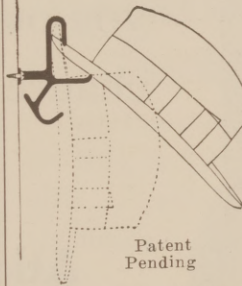


34 Cliff Street
NEW YORK
CAMBRIDGE, MD.



Manufacturers of
Bank Railings and Enclosures, Wire
Cloth, Wire Work, Wire
Goods, Etc.

Estimates Promptly Made. Send for our Wire Cloth Catalog
No. 20, Wire Work Catalog No. 19.



Patent
Pending

Mr. Builder: Have incorporated into your buildings our Universal Safety Hooks.

We have designed it to be of practical value and it possesses satisfying features. Will hold any stiff hat safely, cannot puncture delicate garments if hung over inverted "U," and has a projection for holding razor straps or umbrellas.

The castings are nicely japanned and are shipped in cartons of one dozen. Send today \$1.00 for trial dozen. Wholesale price on request.

Reference: Dime Savings Bank.

MONITOR PATTERN & MFG. WORKS,

50 Lothrop Ave.
DETROIT, MICH.

Tear out this ad and write at your convenience.

"NU-JAMB" HINGES

These hinges are applied DIRECTLY to the JAMB.

NO HANGING STRIP REQUIRED

or if hanging strip has been installed, the hinges can be applied DIRECTLY to the strip WITHOUT mortising.

Strongly Constructed. Ample Spring Power. Bearings Insure Durable Service. Ball Tips Locked to Prevent Working Loose.

A Hinge Applied Direct to the Jamb is more Solidly Supported than one Applied to a Hanging Strip.

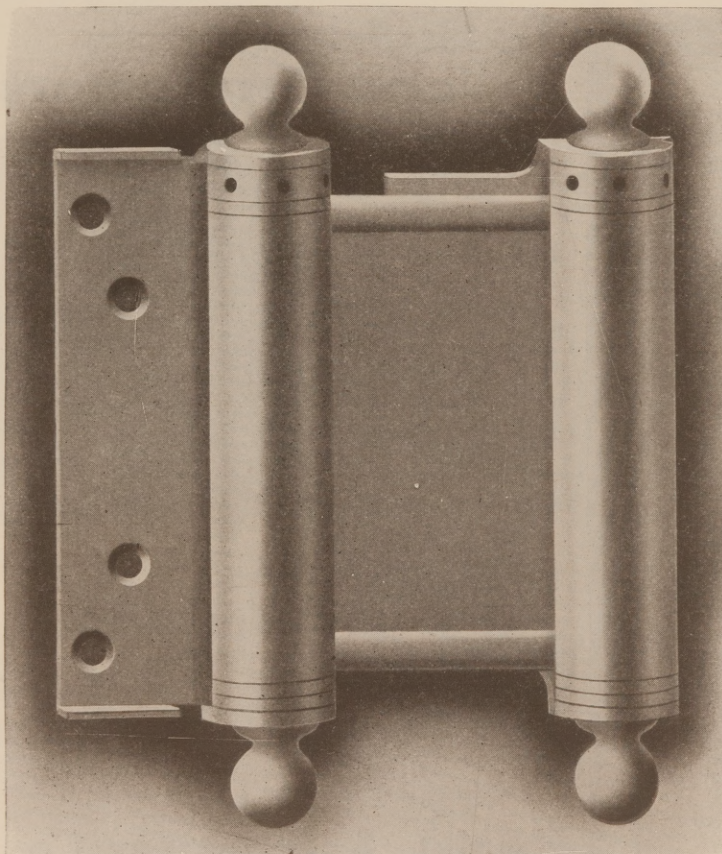
Made of wrought metal—steel, brass or bronze, single and double acting, in sizes from 3 inch to 10 inch, the increase being per inch.

Catalog sent on request.

Lawson Mfg. Co.,

Superior and Franklin Streets,
CHICAGO, ILLINOIS

New York Office, 85 Walker Street.



Team Work is the Keynote.

Teamwork of every blooming soul will bring prosperity says George E. Roberts of the National City Bank who writes interestingly in The American Magazine for February. The following are extracts from Mr. Roberts' article:

"If we can get rid of the vicious doctrine that there must be conflict between capital and labor, we ought not to find any insurmountable difficulties in our path. That idea is a false one and must be recognized as such by both sides. Their interests are absolutely mutual, and if they work together on this plane both of them will benefit.

* *

"We have shown what we can do if we all pull together. If we work with the same zeal, energy, unity of spirit, and use all the productive forces of the country as effectually in supplying the ordinary wants of the people as we have worked in carrying on the war, it will be possible to accomplish all that has ever been hoped for in improving social conditions. And when we say social conditions, we might as well say business conditions, for that is really what it amounts to. Social conditions depend on business in its broad sense; for business is what feeds and clothes us, educates our children, pays our doctors' bills, takes us to the theatre or the 'movies,' keeps our churches open, and makes life what it is.

* *

"I believe in labor being well paid. We have always had the highest wage scale in the world, and we want it to be always the highest in the world. But we have learned one thing of importance. It is that the vital point about wages is not the rate per day or per week, but the rate per unit of production. That is the key to the industrial problem. Efficient labor is worth high wages. But the man who demands high wages, without giving efficient production in return, injures himself and is unfaithful to the wage-earning masses. He adds to the cost of the necessities and comforts which his fellows must buy.

"Suppose he is making hardware. If he gets high wages for poor work he increases the cost of hardware. The result is that the man who is working in the cotton mill in Massachusetts will have to pay more for his stove, or his tin pans, or whatever he buys in that line. He will be forced to demand more for his own labor. The cost of cotton goods then goes up, and the original man, the hardware worker, has to pay more for his shirt, his underclothes, all the cotton things he buys for his family.

"This is not a question of class interests, but of obligations between people in the same walks of life.

"As for the employer, it is to his interests that employees as a class shall be well paid. The higher their purchasing power the better it is for business in general. We have got to get this into our heads as a people: that we are not independent of one another; that the honest prosperity of each one is beneficial to the rest of us. That is the secret of prosperity: mutual interest, cooperation. Efficient workers, well-paid workers, we must have. But they must realize their obligation to be efficient as well as their desire to be well paid. And the employer must understand that a vast body of workers with a great purchasing power forms the true foundation of prosperity.

* *

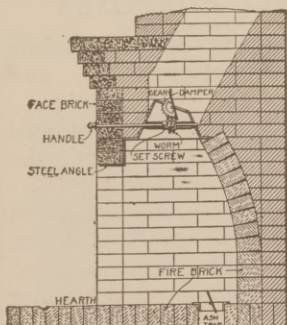
"We are all in this business of peace just as we were all in the business of war. The way to win it is to work together and to work individually just as efficiently as possible.

* *

"To the extent that we realize this fact, that we are all dependent on one another for prosperity, to just that extent are we likely to have prosperity."

Building Material.

From the North comes the announcement that since the fixing of the prices of steel a scramble has commenced for building material, and that the supply does not appear to be anywhere near the require-



STOVER
Mfg. & Engine Co.
FREEPORT, ILL.

Build the Fireplace Right

Don't try to reduce the cost by leaving out a good damper. It results in an expensive fireplace to operate and allows rain, wind, birds, and other objectionable things to enter the room when the fireplace is not in use.

Stover Dampers support the brick work, form a smooth throat, regulate the draft perfectly, and reduce the labor cost of erecting fireplaces.

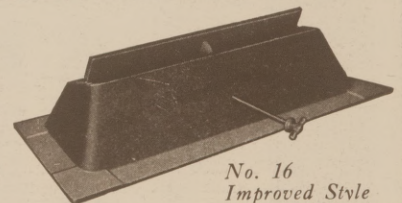
The price is low enough so a Stover Damper can be used in every fireplace. Made in several styles for all size openings. The Improved style shown above is one of the most popular.

Send for catalog No. 1740 showing our fireplace fixtures and giving information as to the best fireplace construction.

We also make windmills, feedmills, gasoline engines, hinges, pulleys, saw vises, latches, sink brackets and other hardware.

Stover Mfg. & Engine Co., 722 East St., Freeport, Ill.
Send us Catalog No. 1740.

Name Business
City State



No. 16
Improved Style
Made in 7 Sizes

ENAMELED IRON SIGNS. ENAMELING ON CAST IRON OR STEEL OF ALL DESCRIPTIONS ACID-PROOF ENAMELING

Fittings, Plumbing Specialties, Guide Rings, Signs and Name Plates, Enameled.
Enameled Dials for Clocks, Meters, Indicators, Guages, Thermometers, Etc.

MANHATTAN DIAL MFG. CO.

38-42 Lexington Ave. BROOKLYN, N. Y.

ments. Brick especially is reported short, and the information indicates that the structural steel mills will have their hands full.

The outlook is therefore extremely good for the lumber trade. It is so good that the United States foresters are uttering a warning that if the sawmills are not more discreet in their forestry practice the timber supply of the country is soon to show serious inroads, and the prediction comes from that same official and competent source that North Carolina is approaching the edge of mighty thin ice in its original supply, says the Raleigh, N. C., News and Observer. Ten years, the foresters think, will see a first crop pine tree a scarce thing in this state, and then the second growth will have to be the principal reliance. Already Pacific coast shingles are coming to North Carolina carload after carload and selling in every little town in the state. If we are to continue a prominent lumber producing state, which we must be, a better system of forestry has to be taken up pretty soon, and it is a safe guess it will be, for necessity is a hard driver, but also a certain one.

With the demand for material all kinds of lumber will be in active movement, and as the lumber industry is one of the chief activities in the state this influence seems to be settled as a part of the prosperity procession for the next year or two at least. With lumber doing pretty well, wages are

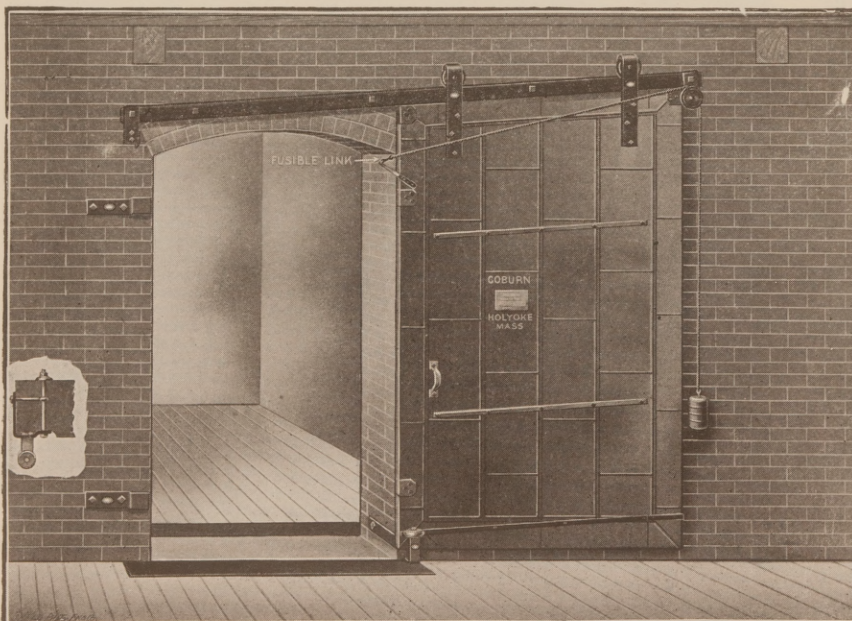
bound to be good in nearly every section of the state, for nearly all parts of North Carolina make more or less lumber products.

Evidently all signs look about alike these days, and point in the right direction, according to the Observer.

Big Construction Program to Follow the War.

Investigation by New York City committees of building trades has revealed that more than \$5,000,000,000 will flow into projects through the United States in the rebuilding of Europe during the five years after the end of the war.

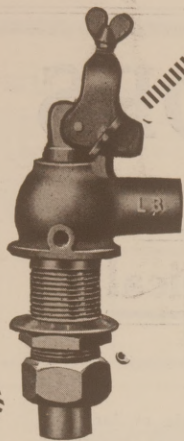
A large part of the reconstruction will be done by organizations in this country. France is negotiating already for more than \$150,000,000 outlay in the reconstruction of her devastated cities. Orders from both France and England are pouring into the National Lumber Manufacturers' Association, which reports that in one English city—Birmingham—50,000 houses of the frame type ought to be replaced at the earliest possible moment, the community needing from 10,000 to 20,000 more houses at once. The proposed rate of construction is to be 5,000 houses a year, the entire program calling for nearly 2,000,000,000 feet of American timber. The town council is preparing to handle operations which will involve \$6,250,000 annually.—The Architect and Builder (San Francisco).



COBURN Fire Proof Doors FOR ALL PURPOSES

Made single and double, incline slide, level slide, single and double swing and vertical slide. Are inspected, labeled and tagged under the supervision of the Underwriters' Laboratories, Inc. Send for our catalog and price list covering these standard doors. Also makers of barn door hangers, parlor door hangers and rolling store ladders.

**Coburn Trolley Truck Mfg
Company
HOLYOKE, MASS.**



Master Plumbers prefer the L. B. Ball Cock

because of its simplicity and lasting qualities.

Does more work and does it better than any other ball cock made.

Easy to assemble or take apart. **One Screw Releases all Parts.**

All moving parts wear equally and work smoothly.

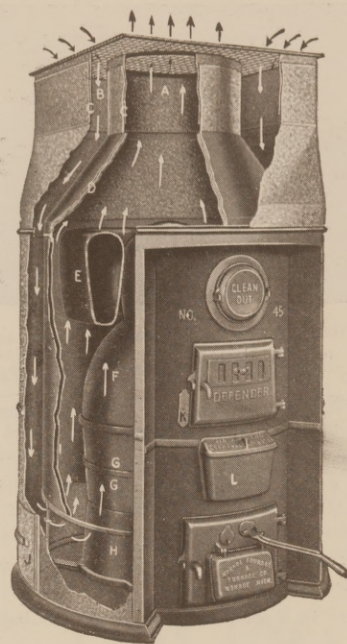
Made of Steam Bronze.

Cannot stick, bind, or get out of order.

The L. B. Ball Cock fits any tank—high or low—and works well under high or low pressure. What you have been looking for on your repair work.

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L. B. BRASS COMPANY
PEABODY, MASS.



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.

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The Monroe Foundry & Furnace Co.

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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.

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REGISTERED
ECONOMY
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Protects
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Cases Everywhere
Why?

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Six Drawer Sections, 26"x38"x2";



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Four Vital Qualities

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For bungalows and moderate cost houses 3-8 inch OAK FLOORS, CLEAR Plain or SELECT Plain, is the ideal flooring, because it is very economical in cost, and when laid has the appearance of 13-16 inch flooring.

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OAK FLOORS are made in 13-16 inch and 3-8 inch thicknesses in different grades, so that any building from the most pretentious to the most modest can be floored with OAK FLOORS at a price to fit the pocket-book.

There is a solid satisfaction and lasting pleasure in the substantial and dignified appearance of OAK FLOORS.

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"America's Best Flooring"

Oak Flooring Manufacturers Association

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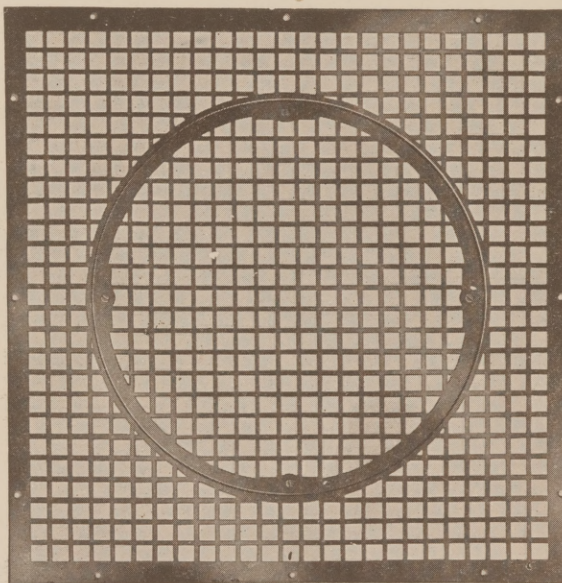
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are made substantially, with round center for warm air supply and square cold air intake.



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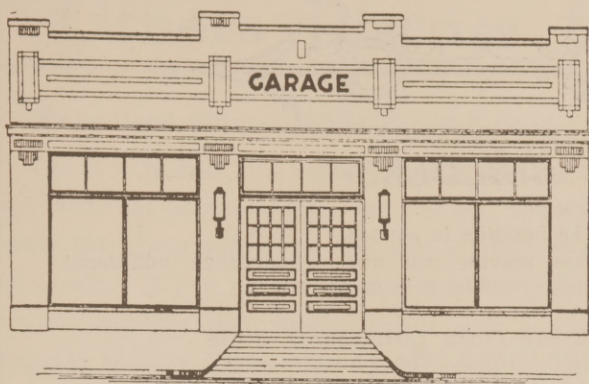
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Do not let the construction of the modern garage worry you. Our garage department will relieve you of these cares.

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

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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.

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

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Complete Store Fronts EVANSVILLE, INDIANA

Renewed Tungsten Lamps

10-15-25-40 watts—110 volts, 17c each
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Send orders to local dealer or direct to

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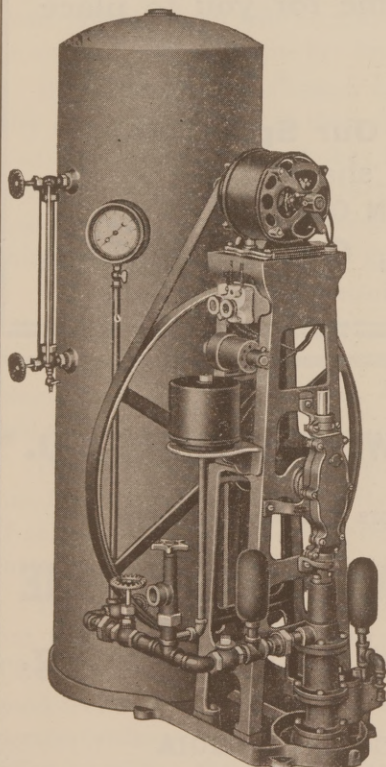
1—Very transparent. 2—Exceptionally strong. 3—Being rolled on a large core it will lay flat on drawing board to the last yard. Others to follow.

In rolls of full 20 yards; 30, 36 and 42 in. wide.

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For
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Automatically
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Noiseless

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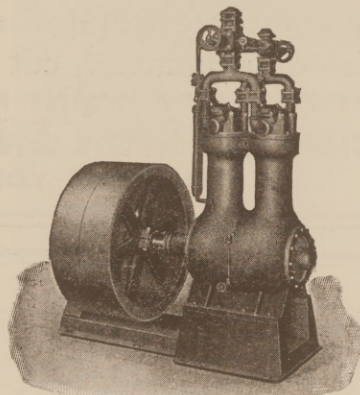
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180 Gallons
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A building isn't complete unless it's protected from lightning.

SECURITY LIGHTNING RODS can be installed as the building is erected.

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.

Write for agency proposition and prices.

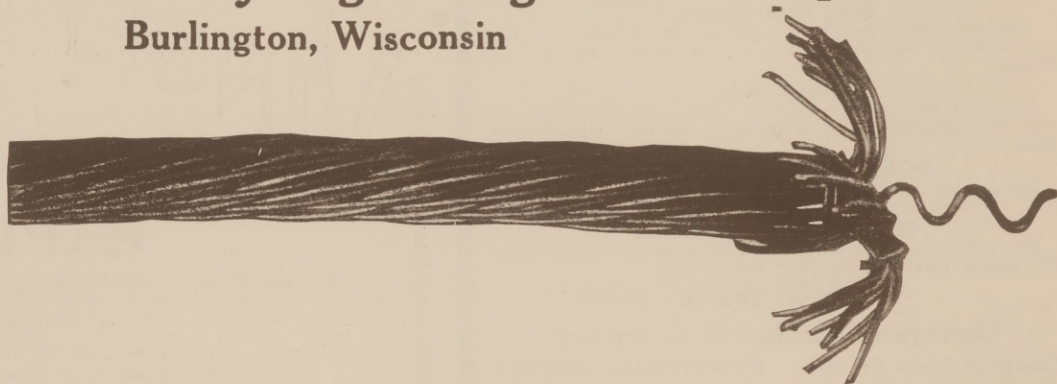
We carry a full line of COPPER CABLE and TUBE LIGHTNING RODS and Fixtures, also pure GOLD LEAF WEATHER VANES, "The Kind That Last."

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We have the stock. We have the facilities.

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Either twisted or diamond, cut to length, bent to shape.

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INDIANA LIMESTONE

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Estimates promptly furnished

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LONG LEAF YELLOW PINE
Timbers and Factory Flooring.

VALDOSTA, GEORGIA

Others Discuss Some Timely Topics

Make Good Citizens While You Sell Goods.

The foreign-born buy reading matter and the foreign-born are lonesome, and one touch of nature makes the whole world kin, and also is likely to sell the goods. If you don't care for the foreign-born, yet you care for their money orders, and you may care for the foreigners, too, when you know them better. Try this:

Tell the woman who speaks little English that you want to show her something interesting. You can tell her that much with your eyes and hands and smile.

Show the woman who speaks little English some pictures, and if the catalogue from which you are selling has some pictures in beautiful colors, show her those. Color and music and form speak to everybody, everywhere and in every tongue.

With hands and eyes and smile interest her so greatly in the pictures of her own country as well as ours, that she will want to read the text.

With hands and eyes and smile, make her understand that the text is there to be read—for a song; the song of the English language.

If she would like to speak better English within a very short time, tell her you will, yourself, take her to a night school where she can learn; if you are a good salesman you will be able to make your book or magazine or catalogue her first English primer.

If you are a good salesman you won't look critically about the homes of these foreign-born women. You have your work and they have theirs; Hers is likely to be a good deal harder than yours. Don't knock even in your mind. Knocking never sold anything—but the other fellow's goods.

If you are a good salesman you'll know at a glance whether it will serve you best to speak of books or babies; if babies, there are likely to be plenty about. Talk of them, by hands and smile and eyes.

Don't gush over the foreign-born woman. She has her reserve and her dignity to look after, even if she doesn't speak the language. Be kind and be interested and alert. You'll sell your goods.

The above suggestions are likely to serve you, but that isn't the only reason why they are made. They are made because America needs the help and good feeling and humanity of every one of her prospective citizens, and just now the man or woman helps to secure these things for our country, helps to win the war and a prosperous future "over here"

us both, if you are trying to sell something. You help us and we'll help you.

Neglect of Housing By United States.

Neglect of housing by the United States Government is shameful, declared Robert D. Kohn, architect and former United States shipping board official, in an address he delivered before the Octavia Hill Association.

"Why, even little Cuba appropriated several millions for this purpose before the war," declared Mr. Kohn. "Why have we been so remiss? Probably because we have a naive belief in the all-efficiency of private initiative. People make most money out of building expensive houses. Consequently no houses are built for the man who receives low wages and he has to live in houses no one else would have."

Mr. Kohn approved the plan of Massachusetts, where, he said, the state loans money at a low rate of interest so that low-cost houses can be built.

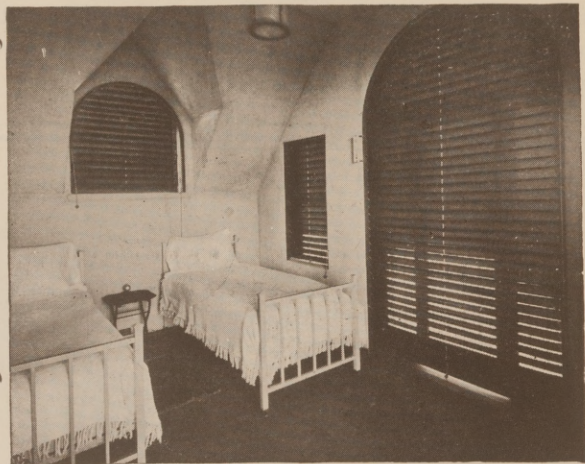
"In England," continued Mr. Kohn, "Premier for the men who just now are 'over there.'"

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SYSTEM

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

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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.

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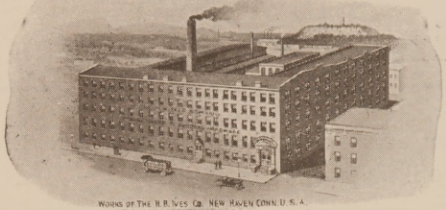
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Manufacturers of

BUILDERS' HARDWARE

HIGH GRADE WINDOW AND DOOR SPECIALTIES

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WORKS OF THE H. B. IVES CO., NEW HAVEN, CONN., U. S. A.

The foreigner needs us; we need him, you need Lloyd-George already has announced a colossal housing program, one hundred millions, I believe. It is part of their reconstruction program and supplementary to their war-time efforts in that direction."

Building and Loan to Rescue.

With a view of supplying work for surplus labor the Division of Public Works and Construction Development of the Department of Labor last week met with 25 representatives of building and loan associations, from almost every section of the United States, to formulate plans for necessary construction and the obtaining of assistance to this end.

In normal times, it was developed during the meeting, ordinary construction work each year aggregated approximately 600,000 homes built to take care of the normal growth of the country and to replace the losses occasioned by fire and other destructive agencies. During the past two years this class of construction work has ceased almost entirely. Conservative figures furnished by the representatives of the associations indicated that more than 1,000,000 homes are needed to take care of the normal growth and destruction during the past two years. The major portion of this construction, it

is believed, has not been abandoned, but rather delayed, and it is with this idea in mind that a way to make liquid the associations' assets is being worked out, so as to provide more money to float home-building loans.

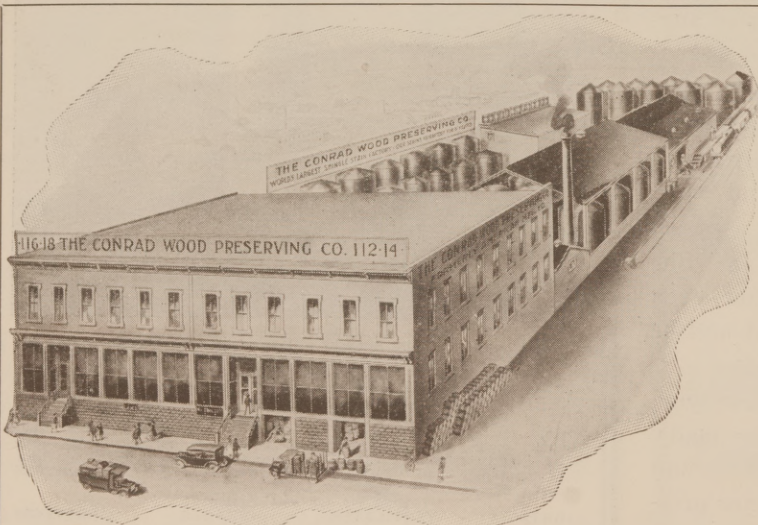
View on Building Accessories.

Concerning the likelihood of a drop in such building accessories as doors, window frames and the like, L. G. Barnard, president of the Memphis Sash & Door Company, says:

"With the great scarcity of housing accommodations in Memphis as well as in all other parts of the country, there is no question about the increased demand for buildings of all descriptions which is bound to occur as soon as weather and labor conditions permit, and this is already being felt by the number of inquiries brought in every mail.

"There is no likelihood of values returning to their pre-war levels for a long period, owing to heavy domestic and foreign demand; and, by comparison, prices on mill work and sashes and doors have not advanced in anything near the same proportion with food, clothing and many other commodities.

"For this reason there is absolutely nothing to be gained by further postponing the erection of necessary buildings. In all probability both time and money will be saved by building now."



Conrad's Creosote Stains don't wash off or fade!

Our Greens are superior to any in the market and our Bungalow Brown has no equal for staining smooth sidings as well as rough boards and shingles. Write for samples and prices to the world's largest Shingle Stain Plant.

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112-114-116-118-117-119-121 Plymouth Avenue
MINNEAPOLIS, MINN.

You can get Conrad's goods all over the country, Conrad's Brick Stains, Concrete Waterproofing and Stains, and Creosoptine Wood Preserver. Guaranteed.

The three requisites of successful road making—

Permanency—Quick Construction—Economy
are combined in

WHITTAKER
HILL

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

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Whittaker Hill Novaculite is put on the road, leveled to

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

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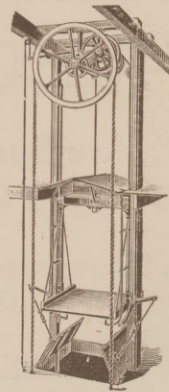
Note the simplicity of construction. Then note that not one cent of repairs has been spent on this 18-year-old road.

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FOR ALL PURPOSES

DUMBWAITERS

SIMPLEX CHAIN HOISTS

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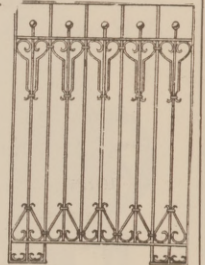
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Brass Rails

OF EVERY DESCRIPTION
FOR THEATRES, BANKS,
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Let us bid on all BRASS AND BRONZE WORK. Inducing Prices, High Class Workmanship. Send us list of Requirements. Write for Catalog.

Bank Fixtures, Hand Rails, Signs and Tablets and Building Directories, Kick Plates, Etc., Brass Grilles, Brass Frames, Thresholds, Electro Plated Work, Bronze Work.

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Water Pipe—Gas Pipe

NATIONAL Pipe is made **Right**—on new equipment—By use of special **CORES**.

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Prompt Shipments.

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Write Nearest Office for Prices.

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Sanitary Floors

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**.

Acme Asbestos Covering & Supply Co.

1349 W. Kinzie St., Chicago.

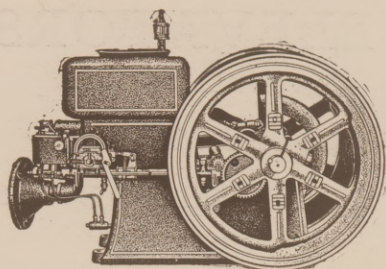
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FOUNDRY AND MACHINE SHOPS

GRAINGER & CO., Inc.

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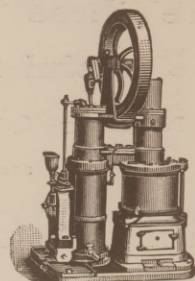


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REECO SYSTEMS

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

A Reeco Rider or Ericsson Hot Air Pumping Engine—safe and simple—build a fire, that's all.

A Reeco Electric Pump—for suction or deep well duty—Automatic if desired.

A Reeco Gasoline or Kerosene Engine for pumping or general power.

A Reeco Pneumatic Tank System—Pump, Power, Storage—pure water—good pressure.

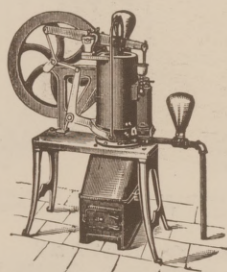
There's a Great Field for REECO Systems
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Get better acquainted—Send for Bulletin B-4.

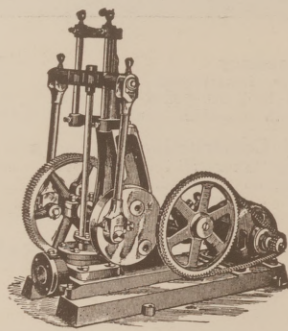
Rider-Ericsson Engine Co.
WALDEN, N. Y.

New York District Office, 20 Murray St.
Philadelphia District Office, 40 North 7th St.

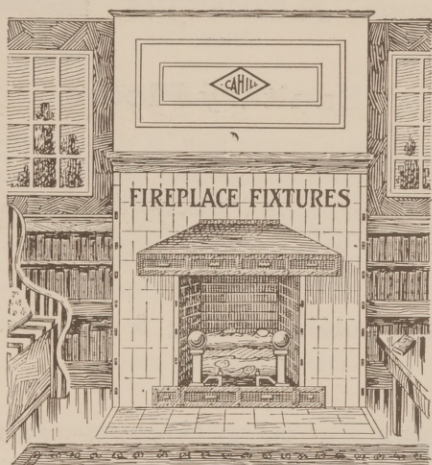
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who know the decorative value of Open Fireplaces,
should apply for New Catalogue describing latest de-
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Wrought Iron Trimmings Portable Baskets

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CRANES

FOR

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Second and Carlton Streets
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The Wood Mosaic Kind

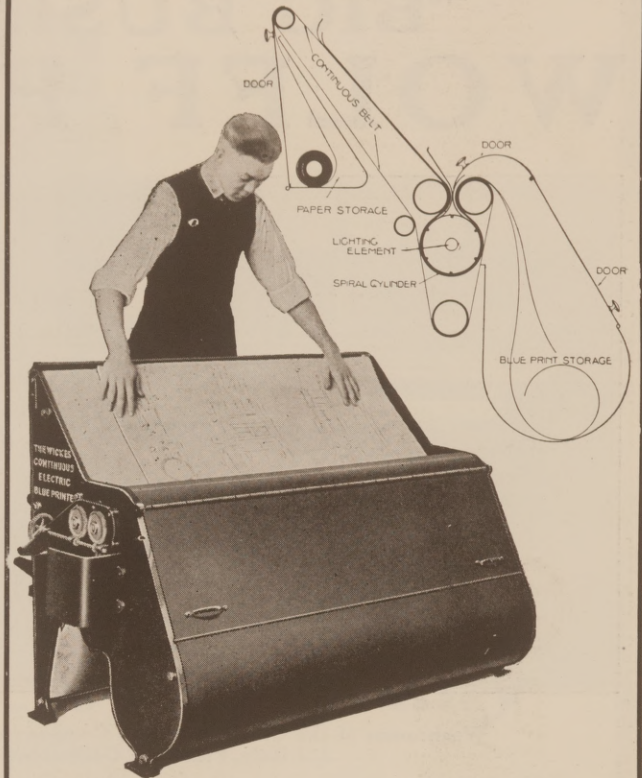
For every home—Old or new. Can be installed by our mechanics. Our 5-16" flooring can be laid in old or new houses. We make all kinds and thicknesses; Wood-Carpet, strips, Plain and Ornamental Parquetry, Tongue and Groove Flooring.

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
New Albany, Indiana

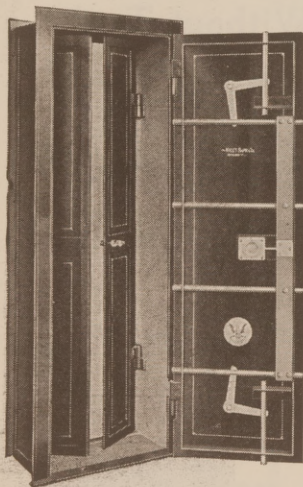
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The Wickes
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No. 1AA Fireproof Vault Door.

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79 High

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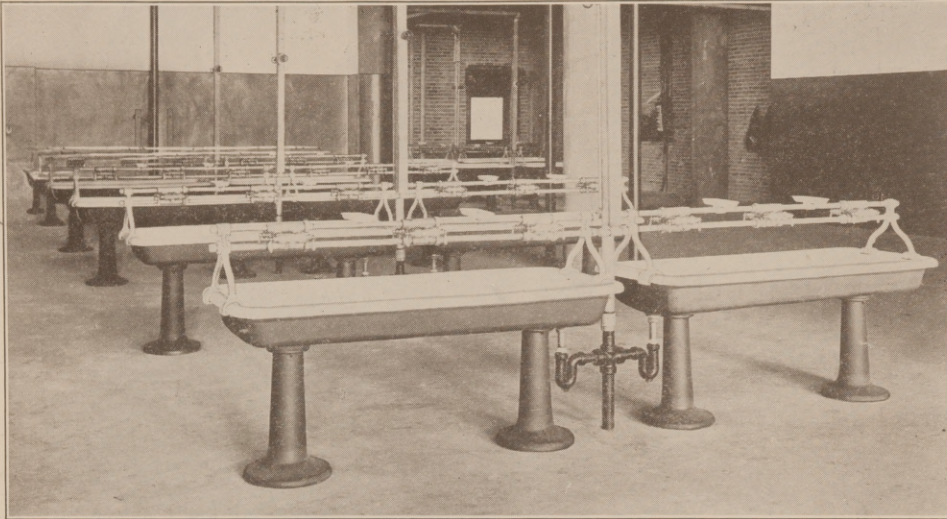
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CO-OPERATIVE SERVICE.

This company maintains a department for co-operating with architects or clients in solving problems encountered in selecting and installing vaults.

Prices and estimates will be promptly furnished on application.

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Washrooms of the Continental Can Company of Clearing, Illinois
J. J. Daly, Plumbing Contractor.

WHEREVER long life, constant service and high efficiency are demanded of plumbing, there WOLFF Products command the interest of the owner, architect and contractor.

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will pay for itself in one season in gas saving alone.

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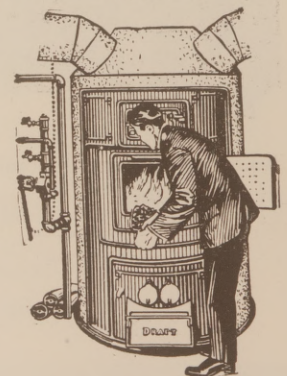
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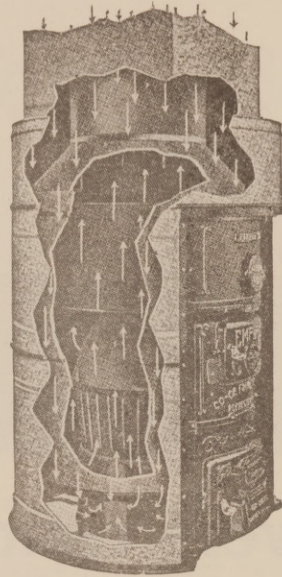
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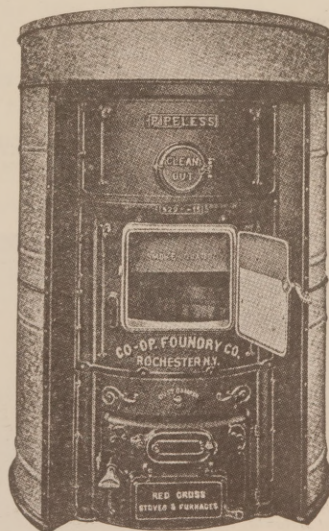
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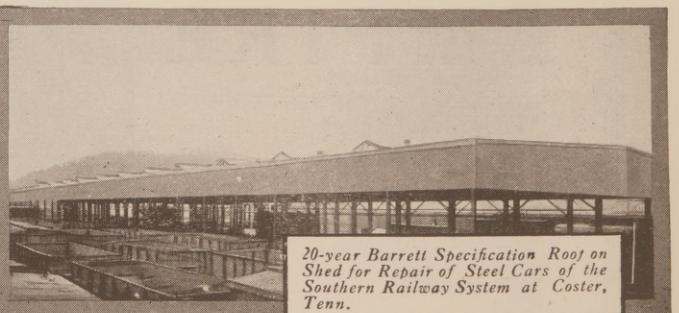
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Barrett Specification Roof on Freight Depot and Office Building of the Southern Railway System at Atlanta, Ga.



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Southern Architect and Building News

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DALTON, and ATLANTA, GA., MAY, 1919.

No. 1

Thinking of Building This Spring? Here Are Some Facts to Consider

By WALTER F. ANDERSON, Architect, in American Magazine for April

YOU build your house from the ground up; but it's a mighty good thing, if it is to be a two-story house, to plan it from the top down. I know that at first sight that looks like putting the cart before the horse; but if you'll stop to think a minute, you'll see that it isn't.

The second floor contains your bedrooms; and you simply must have, in addition to bath and hallway, a certain number of them—enough to accommodate your family, anyway. There is a minimum below which you cannot go in number, and there is a minimum below which you cannot go in size. No double bedroom, or room intended for two people, should be less than 12 by 12; that is, no double bedroom should contain less than 144 square feet. And no single bedroom, or room intended for one person, should be smaller than about 8 by 8 feet. Certainly it should contain not less than 60 square feet.

Upstairs your necessities rule; downstairs, your wishes. You may want a reception hall, a livingroom, a diningroom, a kitchen, a pantry and the like, and want them a certain size. But their size and arrangement you can accommodate to the floor above better than you can accommodate the upper floor to the lower one. You may very well find that you have to enlarge your bottom floor to take care of the top one. So remember, in forming your plan in your head, or in putting it down on paper—which is an excellent thing for every prospective builder to do—to give the second story first vote, and the ground floor second. Or, better still, if you consider them together you will save yourself some disappointments.

But that is going ahead of the first thing you have to consider, namely, the lot on which you are going to build. I have in mind the house of moderate cost in the typical suburb or town; and if you have not already bought your lot there are some things you will want to think about. One of the first of these is to stand in the middle of your prospective lot, see which way the sun rises, and figure out whether

you can build in such a way that the morning sun will shine through your dining room window. In other words, choose your lot with the sun and your diningroom in mind.

For a long time, every morning I ate breakfast in a diningroom where the sun never penetrated, and that gloomy breakfast cast its blight over my whole day. I believe it will do that for any man or woman. Your breakfast ought to be cheerful; and the sun, coming into your diningroom window and touching the silver and glass, goes a long way toward making it so. As for the livingroom, the sun is needed there in the afternoon rather than in the morning. Sunshine in the diningroom in the morning and in the livingroom in the afternoon is a mighty good arrangement, and one that can be worked out.

Of course there are other things to think about in choosing a spot to build on. Many people are anxious for a corner lot, and the corner lot usually brings the highest price. How often do we see the advertisement "Corner Lot For Sale." And, partly because of this advertising, we have been led to believe that it is the most desirable location. Now, if the town or suburb is to grow, the corner lot may prove a good investment, for it will increase in value out of proportion to the others; and perhaps that has something to do with the fact that the term "Corner Lot" sounds good to us.

But not altogether; for the corner lot has many advantages as a place to build on. Your house will occupy a position of prominence—and we are as anxious for our homes to be prominent as we are to be so ourselves. Also, the corner lot offers open spaces on two sides and behind, with a maximum of breeze and sunshine.

But there are disadvantages, too. You may have to pay double the amount your next-door neighbor pays for pavements, for pavement upkeep, for sprinkling the street on two sides of you, and for having the snow shoveled off the sidewalks. You

have become responsible for twice as much frontage as your neighbor has. And unless you are able and willing to meet these obligations, to become, as it were, steward of the corner, you had better look for a lot farther down the street.

Here, if the town is laid out irregularly, you may have to choose between one that is deep, in proportion to street frontage, and one that is shallow with more street frontage. A long house, with its end to the street, is not likely to be pleasing architecturally. What is more important still, the windows are apt to be shaded by the house of your next-door neighbors. We have all seen city tenements whose rooms were desirable and bright so long as there was a vacant lot next door, but which became dark and unwholesome when another tenement was put up on the vacant lot. To a lesser degree the same thing may happen to any narrow house set endwise to the street; whereas, if it sits broadside, the rooms upstairs and down will get sunlight and breeze both from the street and from the vacant space behind the house, or the garden.

There was a time when the builder of moderate means, having chosen his lot, could consider brick or stone among the materials of which he might build; but that time has passed. I am thinking all the time of the house to cost from five to eight thousand dollars; and, unless you can go beyond the last figure, you must eliminate brick and stone and consider cheaper materials—frame, stucco and brick veneer.

The frame (weatherboarded or shingled) house is well known, and I do not need to talk about it. The stucco and brick veneer house is coming into favor, and with the advancing price in lumber the stucco or brick veneer house costs about five per cent more than a frame house of the same size and specifications. But here is an important matter to think of: The frame house will need to be painted, at the very least once every five years. Once every three years would be better. The stucco or brick veneer house does not call for paint, except for the eaves, window casings, and doors and blinds. Stucco properly put on will last thirty years without cracking; brick veneer probably longer. In that time you will have painted your frame house at least six times, and each painting will have cost you several hundred dollars. I hold no brief for the stucco or brick veneer house; but if these appeal to you, you need not let the original extra five per cent frighten you. It will be more than made up in the long run.

It is a very old saying that we have no right to dispute with another concerning matters of taste; and the way your house is to look is a matter for you to consider—in the main. I tacked on that qualifying clause because you will, of course, want to take into consideration the rest of the houses about you and try to conform in general idea to them. That is, if they are of the low or rambling

type, you will not want to erect a tall and narrow structure, or one that contrasts unpleasantly either in design or size to the others. It is quite possible for a house to be pleasing set off by itself, and unpleasant when set in the midst of others. Your architect will tell you that.

You know, in almost everything there is plenty of room for individual taste without completely breaking away from other people; and there is plenty of room for your individual ideas in home building to express themselves, and for your house at the same time, to conform in general design to the houses about you.

In going down the street of the average town or suburb you can, with a little training, pick out three types of houses—the bungalow, the colonial, and the English cottage. The bungalow, which originated in California, is one story high, with a low-pitched, unbroken roof and deep overhanging eaves. No house of more than one story is a bungalow. However, the bungalow style of architecture has influenced two-storied houses, and we can call many of them the bungalow type. It is as if the plain sloping roof of the original bungalow had been raised and a second story sandwiched in, using long dormer windows.

The colonial type of house is a rectangular or boxed sort of affair, so far as the main body goes, with either a portico upheld by columns, or an entrance of colonial design. The English cottage has steep-pitched roofs and gables and has usually half timbers showing through the brick or stucco out of which it is normally built.

So as you go down the street you can say, "Bungalow, Colonial, English," according to the dominance of the type in each house. Many houses have elements of them all; there is an "American type" which does. The bungalow, the colonial, the English, and the American type—all are good and all have given many pretty homes. Just take your choice.

Of course you will not want to build on top of a hill or terrace a house that gives the appearance of height rather than of length; it will look pretentious, "reared up." Towers and turrets and bric-a-brac and fancy porches are relics of an age that went astray in the matter of taste. Also, such houses are hard to keep up. Taste calls for simple lines, and taste is not only, as has been said, on the side of the angels, but in building it is on the side of your pocketbook.

There are some things which people of moderate means sometimes want in their houses that are not worth what they cost; and in denying them you may save money, and yet have a very pleasant home. For example, a hardwood floor is a good thing, but so is a Georgia pine floor, and Georgia pine costs less. My office has a Georgia pine floor; it has been in use fifteen years; thousands of people have walked on it; the floor has never splintered or rubbed

rough, and it is good to look at, also. Of course it is a selected pine, and all heart; and if you decide on a pine floor see to it that only selected all-heart pine is put down in the specifications. Please understand: I am not saying that a hardwood floor is not a good thing. But, if you must save money, you can do it on that feature of your house.

Or you may have decided on a tiled fireplace. But the tiled fireplace costs fifty or sixty dollars, and the pressed brick mantel about twenty-five or thirty. By the time you count your fireplaces you'll see what a saving the difference represents. Also, a simple wood mantel is more appropriate, I think, in a modest home.

Do not insist on too many fireplaces—chimneys are very expensive both in themselves and in the adjoining work that has to be done about them. See that each chimney serves as many rooms as possible.

You can save much money by having your windows and doors of "stock size," which means that these windows and doors are made in factories and are for sale in lots. It is extravagant to insist on a certain sized door or window not in these stock sizes, just as it is extravagant to have a pair of shoes made to order if you can get a perfect fit out of stock. Unless you have a peculiar foot you can do this; and unless you have some peculiar whims you can get your windows and doors out of stock. Fortunately, the factories offer a wide variety of sizes and designs in doors and windows, frames and moulding. Here, as in the architecture of your house, you can have room for your individuality to express itself, and at the same time conform to your pocketbook.

Paneling is ornamental, but very expensive, and the effect of paneling can be secured by having a

chair rail or moulding around the room about two and a half feet from the floor. Below this moulding you can use, if you desire, a paint of a different color from the color of the wall and thus secure variety and do away with the "dead wall" effect.

Your bathroom should never be placed on the exposed side of the house, the side from which the cold winds blow. There is danger of freezing the fixtures for one thing; your bathroom ought to be the warmest room in the house for another. The kitchen should have two exits, one leading toward the diningroom, the other to the hall, so that your servant can answer the door bell without passing through the diningroom and disturbing the meal. The other exit should lead into a rear passage and then upstairs, so that your wife can go to her room from the rear, if she chooses, when there's company downstairs. In all matters pertaining to the kitchen, however, consult her; she's the expert in the kitchen, not you.

I find it a good plan, in finishing the interior, to kalsomine the ceilings down to the molding of the livingroom and bedrooms, and then from the molding down to put on some cheap, simple wall paper. Nearly all walls, as the house settles, will crack a little. These cracks will show up in the cheap wall paper; and by the time the house is through settling, and the walls through cracking, the cheap paper will be done with, and better and more permanent paper can be put on. As for the bathroom, laundry, and kitchen, paint the walls. Kalsomine will not endure where there is steam, but in a short time will look blotched and streaked. Never kalsomine your bathroom or kitchen.

So far as woodwork is concerned, if you desire to



Unique Bungalow, South Pasadena, Cal. \$2,000.

paint it white some varnish put in the last coat will give a hard surface like enamel.

The hardware of the house, door knobs, hinges and the like should be of the very simplest patterns. It is not necessary that they be of brass or beaten bronze. Plated hardware is much cheaper and will last as long as the house—except out of doors. But if you live within fifty miles of the ocean, you will economize by putting brass or bronze knobs and hinges on the outside. Plated ware on the inside, solid ware on the outside, is a safe and economical rule if you must consider the cost.

I am not advertising my profession when I say that, even in building a house of the most economical and simple kind, you ought to have an architect take charge. Some people roughly make their own plans for a house, and leave the rest to a contractor, thereby saving the architect's fees. The trouble with that scheme is this: The contractor is interested in making his margin of profit as large as possible; and unless you have the time and the technical knowledge to check him up there will be nobody to do so. In fact, a first-class contractor would rather deal with the architect than with the owner, for the reason that he wants to be checked up.

The architect receives a stated fee; it is to his interest to see that the very best job possible is done, that the contractor lives up to every item in the specifications. The architect's task begins when he draws the plans; it ends only when he turns over the keys of the completed house to the owner. Dur-

ing the course of construction he will have checked up the work in detail, and from time to time advised you how much money is properly due the contractor; and, as final service, he will audit all the bills and see that the contractor furnishes all certificates from the local boards of insurance underwriters and any other papers of like character that may be required. If he cannot save you his fee—say five hundred dollars out of a five-thousand-dollar house, not to mention the saving of worry and time for you—then he does not know his business.

And now as to the cost of a house: There have been many misleading statements printed and published, with pictures of houses accompanied by estimated cost, which was far below the mark. You can put up, in normal times, a comfortable, enduring, good-looking house of six rooms for five thousand dollars. Of course you may not have all the chimneys you want; you will have to use stock doors and windows; you may have to deny yourself tiled fireplaces; you will have to use simple fixtures and hardware. But all of these things will be good, enduring and in good taste for that price. If you want to add a room, add another thousand dollars to the cost; if two rooms, two thousand—and so on. Your house, as I have said, will be good enough. The cost above what I have said lies in the finish. A six-room house may cost five thousand, or it may cost, according to the finish—well, the sky's the limit. It's all according to your pocketbook, your desires, and your tastes.

It Will Not Pay to Delay Building

THERE is a rather general impression that building materials are to drop in price—that a delay in building will mean a saving. This is a false idea. It has arisen from a general tendency to lump lumber in with the "war babies"—food, clothing, iron, steel, drugs, etc., which have risen tremendously the past four years, on account of war demands.

But all these other commodities sky-rocketed because war opened up tremendous markets for them and because the need was great, prices soared.

Now, that the soldiers are returning to peace-time pursuits, it is safe to assume that supply will catch up with demand and prices on these things will sink back to normal.

Different, though, has been the case of lumber. In 1913, before the war, building material prices were normal. That is, the price at the mill showed a fair profit over the cost of production. Building was fair in 1913 and the demand was steady in 1914, right in the midst of the building season, came the

war. It played hob with the building industry. Over 60 per cent of the building of the country is done on borrowed money—and when the banks tightened up on their loans, as they did in 1914, the first thing to suffer is this 60 per cent. It becomes impossible to get money, and the projects have to be abandoned. That is what happened in 1914.

In 1915 the situation was not much changed for the better. Hard times had come—our first reaction toward the war. The war boom did not follow until late in the fall of 1915.

All during 1919-1917 the demand for lumber was below normal. The only building was for war factories, or government needs, and while these projects created a lively demand for certain grades of lumber, the total amount of business was less than normal; for, with such unsettled conditions, people did not want to tie up large sums in building. They simply did not build.

It was well along in the fall of 1917 before lum-

ber climbed back to the normal price where it was in 1913. This in spite of the fact that food, clothing, iron, steel, etc., had soared amazingly and the purchasing power of the dollar had dropped accordingly.

Since 1917 the lumber manufacturers have turned their resources for getting out spruce for airplane construction, heavy timber for docks and ships and other lumber for shipbuilding. The small demand for ordinary lumber has been met from stocks previously on hand. Ordinarily there is enough lumber in reserve at the mills—cut and seasoning, for about six months' normal supply.

Mills Now Using 1919 Cuttings.

Now, owing to this policy of milling only for special purposes and filling all orders from the reserve, there is less than one month's supply of lumber in reserve at the country mills. In other words, lumber shipped after March 15, 1919, will be lumber cut in 1919.

It costs much more to run a lumber mill now than it did in 1913. The labor cost alone has advanced 100 per cent. Everything else—machinery, transportation, equipment—is up. The mills must get more for their lumber, and they will get more, for lumber is going to be in demand.

Unlike clothing, food, iron and steel, lumber is past the crest of demand. The war caused stagnation, not stimulation in the building industry.

In 1914 America built only 7 per cent of her quota. In 1915-1916 about 55 per cent. In 1917-1918 only about 30 per cent. This country is over two years behind in its normal building program. Instead of slowing up, we are facing a vastly increased demand for building materials—and facing it without any reserve stocks.

And if all this were not enough, consider the European market. Northern France and Belgium are for the most part utterly destroyed. The greatest building project the world has ever seen is planned to rehabilitate them—and England, though not suffering from direct destruction, is nearly four years behind in her building program.

Forced by the demand from labor for better housing, England plans to build a million houses. Think of it. Homes enough to house the whole state of Illinois, including Chicago.

England, France and Belgium are looking to the United States to furnish a large share of the lumber they need, and it is only fair that we should. The desperate need for men, munitions and food took all the ships during the war; we could not ship lumber to Europe during war times. Yet our army had to have lumber there to build docks and warehouses, and railroads, and dugouts. So we sent over lumbermen and sawmills, and England and France turned over their forests to us. With real American pep and efficiency we turned out the needed lumber. But



13 Room Chalet of J. F. Rhodes, Jr., Pasadena, Cal. Cost, \$9,000.

we used up the timber England and France was saving for years ahead. Our men had to cut timber that was reserved for 1923-1924 and even 1925. Europe's lumber supply for six years went to win the war—no wonder they look to us to supply them.

Cutting Timber Faster Than Growth.

There is still another phase to this complicated problem—basically the most important of all.

We are cutting our forests and milling our trees into lumber twice as fast as the new timber grows.

Twenty years ago the great northern white pine forests of Minnesota, Wisconsin and Michigan supplied the country. Today there is not one tree where then there were a thousand.

Today Louisiana, Mississippi, Texas and Arkansas supply us with a seemingly unlimited flow of yellow pine lumber. Even here, however, the end is in sight. There is hardly a mill which has before it enough timber to insure a 20-year supply. The great forests of the northwest will then be our last source. But when that time comes think of the price you will pay.

It is a sobering thought, for we have always considered lumber, like coal and iron, copper and lead, a stable article that was always going to be a basic raw material. But while we have mineral deposits so vast that they will last hundreds of years, our own generation may see the last of cheap lumber in the United States.

Any great decline in lumber prices is impossible. The increasing scarcity is enough to guarantee higher prices. And the terrific demand which will be put on the lumber industry to supply our own deferred projects and Europe, too, will bring the day of permanent high prices much quicker.

New Danish Heat-Insulating Material.

The Board of Trade Journal quotes the Danish press to the effect that a new company, with a paid-up share capital of 500,000 crowns (\$134,000 at normal exchange) has been formed to manufacture "molersten" (heath clay stone), a material which can be used for insulation.

Several attempts had previously been made by the State Testing Department to utilize the loam obtained from heath clay beds on the island of Mors, in the Lym-Fjord, for the manufacture of insulation materials for use in air flues, steam boilers, etc. The experiments were continued with good results by a Norwegian engineer, and he has now succeeded in producing a "molersten" which is made porous by undergoing special treatment. The clay is mixed with what is termed "expanded cork," i. e., cork dust which, before being mixed with the clay, has been heated. By first undergoing the heating process the cork occupies a larger space in the clay mass than otherwise would be the case. The cork is kneaded into the clay, and the whole mass

is then molded and subjected to heat. By this means the "molersten" is made highly porous and is found to be better adapted for insulation purposes than any other kind of stone.

Large clay beds on Mors have already been acquired, so that the manufacture of "molersten" can commence as soon as the factory which is being constructed is completed.

Authorities Tell Why Building Is Slack.

What is holding back building and construction work?

More than five hundred opinions on this question have been received in the last two weeks by the Information and Education Service of the United States Department of Labor. Many building authorities blame Congress, others charge the financial interests of the country with responsibility. In the central west, freight rates are said to be exerting an injurious influence. In the main, high costs of materials are held to be the chief obstacle.

"Don't expect private capital to build merely for the sake of furnishing jobs for workmen," writes a well-known architect from Buffalo. "That is the obligation of the government, be it local, state or national. Let public works be started at once for the benefit of the public. The cost will be high and the public will have to pay the price, but the public will reap the benefit in the reduction of unemployment, the absorption of the products of many industries and the use of many works of which there is great need."

From Passaic, N. J., comes the following statement: "I am greatly hindered in progress of this work by not being able to procure loans by way of mortgage, in large amounts, say, in the neighborhood of \$150,000. The banking institutions and mortgage companies are making only small loans around here and, even where there is ample security, will not consider investing a large amount of money in one place."

Labor conditions and demands are held to be unfavorable to immediate building operations by many of the authorities writing to the Information and Education Service. An architect, writing from Lincoln, Nebr., makes the following statement, typical of the complaints along this line:

"Construction work in these parts is now and has been impeded not a little, due to the unreasonable demands of labor not only for exorbitant wages, but more by the fact certain very undesirable trade rules are being enforced by labor organizations, which run up the cost of doing work enormously."

The Personal Side of Busy Workers

Opens Office at Newport News.

Wm. Newton Diehl, architect, formerly of the firm of Lee & Diehl, architects, Norfolk, Va., has opened a new suite of offices for the practice of his profession at 506 Law building, Newport News, Va.

Elcock Returns to Atlanta.

The Portland Cement Association announces the return of Walter B. Elcock as district engineer in charge of the Atlanta offices of the association, effective March 18, 1919.

Mr. Elcock has lately been relieved of his duties as major of infantry and adjutant of the 157th depot brigade at Camp Gordon. He was in charge of the Atlanta office of the Portland Cement Association when he entered military service in March, 1917.

New Architectural Firm.

Rudolph E. Lee, A. I. A., of Clemson College, S. C.; T. A. MacEwan of Pittsburgh, Pa., and A. R. Turnbull of Charlotte, N. C., have opened offices at 1214 Realty Building, Charlotte, N. C., for the practice of architecture and engineering under the firm name of Lee, MacEwan and Turnbull. A. R. Turnbull

is the general manager of the firm and they will be glad to receive manufacturers' samples and catalogues.

Memphis Architectural Firm.

Mann & Gatling is the style of a new architectural firm located at 614-616 Scimitar Building, Memphis, Tenn. The firm is composed of Estes W. Mann formerly of Denison, Iowa, and Marianna, Arkansas, having practiced in Iowa for over three years, being a member of the Iowa Society of Architects, and Jas. L. Gatling, formerly chief draftsman with Architect Chas. L. Thompson of Little Rock, Arkansas.

This firm would appreciate samples, literature and other data which would be of interest to architects and engineers.

Wants Two Good Draftsmen.

Raleigh James Hughes, architect, Greensboro, N. C., writes that he is in need of one or two good draftsmen. If any of our readers know of one or two good men experienced along this line they would do Mr. Hughes a favor by writing him direct, and in the meantime if his wants have been supplied he might be in position to place the men elsewhere.

Prices Will Never Drop to Pre-War Levels

Extracts from Article by S. W. STRAUS, Chicago Banker

WHAT we need in America today more than anything else is mental stabilization. We must begin thinking in harmony with the true spirit of this great new Victory Age.

* * *

We must judge the future by the standards of the future, not by the standards of the past.

* * *

In the Victory Age which we have just entered there must be a direct application of our own war ideals to our daily lives. What the business men of this country must learn and learn quickly is the fact that we are never going back to the general standards of living that existed before the war. Herein lies the secret of the whole situation—business, political and ethical.

* * *

This democracy which we fought for and which so many millions of men died for is a condition that

must come into our real existence. These democratic ideals, translated into the actual circumstances of our daily lives, must mean that the rank and file of mankind is going to live better than ever before.

But such conditions of better living never can be brought about through low wages or low prices. If men are going to live in better homes, surround themselves with a more refined and elevating environment and give their children superior educational advantages, they must have a sufficiently liberal compensation for their time and labor.

In the past there has been too much talk about a "living wage scale." Too many employees have felt that when those who depended upon them for a livelihood were given enough money in the weekly pay envelope barely to meet actual living expenses their full duty has been done. But a bare living is not sufficient, because a man cannot practice thrift, provide for the emergencies of the future and educate his children in the way they have a right to be

educated when he is dependent on a mere "living wage."

If the general standard of living in America is to improve, therefore, we are not going to see any pronounced recession in wages, while in all European countries the scale is going to come up. There are going to be better working conditions everywhere, such as shorter hours, greater precautionary measures against accident and ill health, and an eight-hour day.

All business conditions must be prepared to adjust themselves to these standards, and this is the viewpoint we must have in bringing about the needed business stabilization. Inasmuch as labor is the chief item of cost in all commodities and finished products, the general scale of living costs will be maintained in accordance with the standards of wages.

It is futile, therefore, to expect lower prices, and the business man today who is holding off in his activities with the expectation that in the readjustment there will be a revision of prices downward is simply marking time and letting his competitor get ahead of him.

There has been, of course, a scaling down of costs in some instances, and this process will continue to a limited extent.

* * *

There also has been profiteering in some lines of business and there have been excessive wages paid in bonuses and overtime. In such instances there will be an adjustment to lower levels, but the general economic situation will not be affected thereby.

* * *

Meantime the country is growing rapidly. We

are expanding our export trade and we are developing greater activities within our own boundaries. The half-a-billion-dollar building shortage in the eight north Atlantic states, means, therefore, that there must come sooner or later a long period of pronounced activities in that part of the country. And this same statement may be applied to all sections of the country.

The thing for all business men to do now is to adopt a "Get Busy" slogan—to quit thinking in terms of hesitation and doubt, and to make up their minds that business is going ahead as it never has done before in the history of the world. This is the state of mind that should exist everywhere in the country.

* * *

Optimism and thrift must be the keynote of the situation. Every circumstance today points to good times. All that is needed to start the wheels of industry whirling, to inaugurate unprecedented building activities, to furnish profitable employment to all men, to develop all our natural resources and build up a great export business, is to realize in our minds that the time is now ripe for such conditions.

We must bear in mind also that prices are only high by way of comparison. The trend always has been steadily upward and as each new level was reached prices were considered high. But in the course of time we adjusted ourselves to them. We must take the same viewpoint now. Prices, generally speaking are not coming down, and the only stabilization really needed is that which must exist in our own minds. When this has been accomplished we shall begin to realize the splendid actualities of the Victory Age.



Residence of P. Williams, Memphis, Tenn. Shaw & Pfeil, Architects.

Pretty Garden Furniture

AT LAST we Americans are coming to our senses and are beginning to appreciate the pleasure and healthfulness of living more in the open. Consequently we show a growing tendency to treat the garden not as a pleasant place to stroll through, or pick posies in, but as an outdoor living-room. And to that end, we must have some sort of furniture to give the garden the look of an abiding place—something to sit upon, something to furnish shade on a summer's day, writes Henry Fearing in *The House Beautiful*.

This idea of treating the garden as a living-room is as old as the garden itself. In fact, it is doubtful if much gardening was done in ancient Rome, as we understand gardening; the Greeks did very little

ness to people of cultivated taste; for the garden's chief charm we will depend on what the Americans love best of all—flowers.

But on a great estate, where expensive garden furnishings are not out of place either in the formal garden or in the wilder parts of the landscape, it is quite fitting that the work of ancient and modern artists should be employed. For the man or woman who can afford it, there is just as much fun in collecting antiques for the garden as for the dining-room or hall. Thus far, efforts in this direction have been largely confined to the importation of old seats, well curbs, and carved stone fragments from Italy, and more less fanciful statuary from France. The connoisseur knows that the field has not been half



Garden Trellis.

ornamental elevating. To these people a garden meant a pleasant spot outdoors, set apart as an outdoor living-room, and therefore made attractive by means of seats, fountains, statuary and ornamental structures of various sorts. Much of the same idea has passed directly down to us in the Italian gardens of mediaeval and modern times, where arrangement is everything, where growing flowers amount to very little, and where every vantage-point and vista is made the occasion for some sort of garden furniture that may tempt the feet to loiter. And as for the old English gardens, no description of them would seem complete without some mention of lodge, bower, bench, or gazebo.

It is not likely in most of our American gardens we shall care to carry garden furnishings to quite this extent. We shall doubtless compromise on inexpensive materials, practical utility, and enough of artistic quality to preserve the garden's attractive-



Sun Dial and Pool.

covered, and no doubt the Old World will be robbed of more of its treasures to grace new world gardens. As to the materials, stone is of course the most suitable and the most lovely—old gray stone that comes to look like a part of the landscape, with the contrast of glistening white marble in a few appropriate statues.

But most of us cannot afford carved marble, or even fine terra cotta. For us there is the poor man's granite—concrete. Now if there is any one thing that is an offense to the eye in the garden, that is the hall mark of modern bad taste, it is concrete work overdone or crudely moulded. Sharp-cornered curbs and steps, vases that are obviously copies of something better, seats that look hot in summer and cold in winter and hard all the time, objects that appear to be a crass imitation of a nobler material—such things give the garden a bourgeois look

that no amount of care or wealth of bloom can hide. Concrete may be made in either shape the designer wishes, and it may be given almost any color and texture of finish. In general, it is safer to stick to grays and other neutral hues and a rough surface. It is possible to produce beautiful things in this medium; but somehow natural depravity of human nature asserts itself when it comes to the use of concrete, and hideous atrocities are much more common than works of art. Perhaps this is because an expert attempts to carve stone, while any man with enough artistic taste and mechanical skill to change his automobile tire seems to be called to mess around more or less in concrete. Hence the danger of getting into bad artistic habits. I have not a word to say against concrete in the garden, but merely sound a word of warning, since I have seen so much of it that is so bad. It is the one material that is at once cheap and enduring; "when it is good, it is very, very good, but when it is bad, it is horrid."

Another direction in which we seem prone to go astray is in the matter of rustic furniture. I have seen gardens so full of this stuff that they looked like a dish of brown and fuzzy macaroni. A rustic arbor, half hidden by morning-glories, a rustic bridge among thick shrubbery and trees, even a rustic chair or two may be tolerated; but to fill the garden and cover the lawn with rustic furniture, as some misguided people do, is like wearing overalls to dinner; it is simply out of place. And rustic furniture, while often displaying considerable ingenuity in construction, is seldom justified in any claim to beauty. Usually the legs of the tables and the arms and backs of the settees and chairs writhe and twist about like the serpents of Laocoon.

Still I do not wish to seem to be making a too sweeping condemnation; I merely wish to sound a warning against a common American fault. Occasionally rustic furniture is proper and attractive. Cedar or locust, with the bark left on, are the most durable as well as the most attractive for this purpose, though cypress, chestnut, and other kinds of wood give satisfaction where available, while hickory produces an effect of sturdiness all its own.

Wooden furniture has recently come into vogue in the garden—chiefly the white painted kind that we first imported from Germany. When the designs are good, and where there is not too much of it, this white furniture looks clean, cool, and inviting, and forms a pleasing contrast with green foliage. The danger is that it may appear harsh in outline and staring in its dazzling white. More attractive in some respects, though less popular, is furniture made of cypress, oak, or chestnut—weathered, stained gray, or left natural. The difficulty is in finding wood sufficiently well seasoned to stand the exposure. On the whole, cypress is the safest to use.

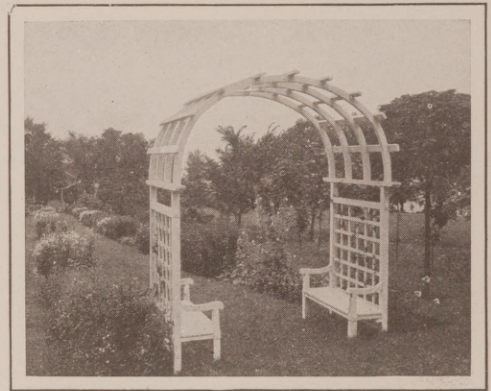
One final word about wooden garden furniture:

don't paint it a vivid green. And, of course, let the patterns be always simple.

Iron furniture is also made for the garden—chairs, tables, settees, fountains, etc.—but it is mostly bad. The designers of iron furniture seem to run to curly scrolls and sinuous lines, and there is a certain German beer-garden look about it that is hard to get away from. On the whole, iron furniture may well be avoided; at best it is uncomfortable.

The idea of the outdoor living-room is most directly suggested by the use of tables and seats. A seat always suggests tarrying, and a table represents a vision of tea. The danger lies in scattering these things all over the place. Then it looks as though you were getting ready for a lawn party. Two or three wooden settees or concrete benches are enough, placed at salient points with some real plan of garden design in mind. Tables seem out of place almost everywhere except under some shady tree or vine-clad pergola.

As to design, the straight lines of the arts-and-craft school seem to be, by a harmony of contrast perhaps, most appropriate for this purpose. In the matter of tables, wooden tops may be expected to



Garden Seats.

warp in time. Painted furniture should never be allowed to get worn or dirty.

Seats and tables suggest the arbor and the summer-house—small living-rooms within the big one. Arches over paths, and arbors at the ends thereof, offer a splendid opportunity for the placing of seats, and when covered with vines or climbing roses they offer shade and a bit of seclusion. White painted lattice work is the most popular material.

Perhaps the most effective as well as the most abused form of arbor is the pergola. It became so suddenly "the rage" that many people adopted it without in the least knowing what it was or what it was for. To those who know that the pergola was originally an Italian grape arbor, there is no garden sight so absurd or bad taste than a heavy-pillared pergola, with rafters as naked as a railway trestle, leading nowhere, shading nobody, meaning nothing. The pergola's only honest excuse for existing is as a support for vines.

Restraint should be exercised, too, in the matter



Practical
Garden
Furniture

of summer-houses, outdoor tea rooms, etc. It is easy to get the styles mixed up. Japanese tea houses, however attractive in themselves, are hardly at home in a colonial garden with an Italian pergola and German chairs. A Greek temple is obviously anachronistic. Rustic affairs, miniature log cabins, Adirondack camps and other fantastic exotics should be indulged in only when one is sure that they do not obtrude. The safest kind of summer-house or shelter is one built of lattice-work in the same spirit as the furniture and the arbors, painted white, and covered with vines, the thicker the better.

Fountains, pools, etc., while considered as part of the garden furnishings, are really water-garden accessories and perhaps do not fall within the province of our discussion of the outdoor living-room. There are, however, a number of things that may perhaps be classed as garden bric-a-brac. Statues, urns, vases, etc., in various materials, may be properly placed in the garden as the ornaments on the mantelpiece. But they should be used sparingly and unobtrusively. In the matter of statuary the typical thing, of course, is the figure of Diana or the head of Pan. Of late, however, modern animal subjects have become popular—the charging bear, the playing cubs, the wounded bison, etc.—and the contemporary sculptor is given a chance.

Japanese stone lanterns, Buddhas, etc., are very quaint and charming, but there is always the danger of producing a decorative discord when they are used anywhere save in a consistently Japanese garden.

As a central point of interest in the scheme, the

sundial or the gazing-globe may be used with perfect propriety, for they are distinctly and traditionally garden ornaments. Or if a gentle usefulness is to be added to beauty, why not a birds' bath instead?

But it is hardly necessary to catalogue all the things that may be put into a garden to help make an outdoor living-room of it. The main point is to learn how to furnish this room effectively and in good taste. The day of the black iron stag and the red gypsy kettle has happily passed, but we have ever with us the human tendency to put the wrong thing in the wrong place and to overdo a good thing until it becomes bad. The safest way is to do a little at a time and to make sure that it is both useful and in good taste.

Standard Specifications for Industrial Material.

Four additional publications in the Industrial Standards Series of the Bureau of Foreign and Domestic Commerce are ready for distribution. These pamphlets contain standard specifications of the American Society for Testing Materials in English and Spanish, and are designed primarily for distribution in Latin American countries to assist in introducing American construction and engineering materials. The serial numbers of the specifications just issued and the products to which they relate are: No. 15, wrought solid carbon-steel wheels for steam railway service; No. 17, steel castings; No. 22, boiler rivet steel; No. 25, engine-bolt iron.



Proposed National Conference to Democratize Construction Industry

THE National Federation of Construction Industries is considering calling a national conference of representatives concerned with the construction industry, consisting of manufacturers, distributors, consumers, labor, agriculture, transportation and finance. The manufacturers would include representatives from the 128 different crafts, or one-third of the industries of the United States, directly or indirectly producing construction materials. The distributors would include representatives of wholesale and retail interests, contractors, architects and engineers, supply houses, jobbing houses, builders' exchanges and others. The consumers would include representatives from 134 granges; 24 farmers' national headquarters; 29 national farmers' organizations; 221 state agricultural associations; national and state real estate associations; federal and state highway commissioners, building commissioners and all other organizations of consumers which are interested in construction. Organized labor would include representatives from both national and state organizations. Finance would include representatives of trust companies, building and loan associations, bond companies and other banking institutions concerned with construction. Transportation would include representatives of the U. S. Railway Business Men's Association, and of individual steam and electric roads.

While this is the first public announcement of the proposed conference, it was learned recently that the directors of the National Federation of Construction Industries have been working for weeks upon the details of the conference and that important meetings of representatives of the several groups concerned have been held, the last one being that of the producers and distributors of construction materials, which was held in one of the large Eastern cities a few days ago.

The federation has also been sounding out con-

struction business sentiment throughout the United States and thousands of letters of a confidential nature, coming into the federation's offices indicate that these business men are apprehensive because of present uncertainties and indecisions of construction business. This condition has resulted in an unwarranted state of unemployment and in many cases has caused inability to re-employ returning soldiers.

On February 1st, 1919, there were 355,488 idle cars in the United States and an excessive number of engines which had been leaded because of a lack of business. This unfortunate situation has developed in spite of the fact that this country has a wealth of two hundred and sixty-five billions of dollars—a greater wealth than that possessed by the four next wealthiest nations of the world combined—with a gold reserve of considerably more than one-half of the gold of the world.

For the past two years, building construction in the United States, except for the War Department, has been practically at a standstill, and it is estimated that the delayed construction program includes from six hundred thousand to a million houses needed immediately to meet the requirements of the people of this country. Large sums of money have been appropriated for public improvements both by the federal government and by individual states, but the officials responsible for the expenditures in many cases hesitate to proceed with the work authorized.

When asked why this condition exists, Mr. Trigg said that from the canvass of opinion above referred to, it appears that the condition is one of psychology rather than one of materials. Labor is available, money is at hand, material is abundant and the need for construction is pressing. All the elements for active business are present, but construction does not resume. Many of the people of the United States seem to feel that we shall revert to pre-war prices, and they are apparently postponing construction

until the reductions in prices are realized. An examination of the history of prices shows clearly that after none of the wars of modern times, in any part of the world, have prices reverted to the pre-war status.

The increase in prices in the United States during the recent war has been much less than in other countries, except Australia and New Zealand. Not only in Germany and Austria, but in neutral Europe and among our allies have prices advanced, in many cases, far beyond those now prevailing in this country. This reason for our present increase in prices is apparent, if we will review our economic role. We have greatly increased our gold reserve. But we have not increased the service or the supply of goods to be exchanged therefor. As a result, more money is required in the purchase of both labor and commodities. On the other hand, prices have increased in Europe because of the great destruction of property and life which has been attendant on the war. This world-wide after-effect upon prices is apparently the result of established economic law. The condition was true in Europe in the 16th century and it has been true ever since. With greatly increased gold reserve, having over seven hundred millions of dollars of free gold in this country in addition to that needed to meet the legal requirements of our present banking system, and with com-

modities not equal to normal demands, prices are not only higher than they were before the war, but they give promise of having reached a new permanent level.

This information, however, has not filtered down to the mass of the people, and the directors of the federation, therefore, feel that they should call together, for the first time in the history of the United States, a conference where all of the parties directly or indirectly interested with the construction industry may come to an understanding relative to the new economic conditions with which the United States is now confronted.

The difficulty of carrying on a conference of this size can hardly be exaggerated. It would be necessary to hold specialized group meetings, general group meetings and meetings of the whole. It would be necessary to hold individual group meetings of construction manufacturers, of construction contractors, of labor interested in construction, of representatives of the financial interests, and so on. It would also be necessary to hold meetings of two or more of these groups together. And, finally, it would be necessary to hold meetings of all representatives concerned with building construction, highway construction and other departments of the industry.

It is believed that such a conference would devise a construction program applicable to present condi-



"Dunleith," Natchez, Miss., Occupying Site of Building Over Which American Flag Was Raised in the Mississippi Territory.

tions. The directors of this federation—potentially representing one-third of the business firms of the United States, and interested primarily in the construction industry, feel that existing class conditions are un-American; that new standards of carrying on the construction business must be formulated; that the construction industry must be democratized; and that unity of purpose and fairness of action will result if the representatives of the several groups concerned will sincerely seek the solution of our present difficulties. Our trouble seems to be lack of information and of understanding, an exaggeration of the importance of group interests and a mutual distrust, arising chiefly from a lack of contact and acquaintanceship between the members of the several groups. We have all acknowledged the solidarity of the human race, but we have failed to recognize the necessity of applying the same principle to business.

Mr. W. H. Manns, former director of the War Service Committees of the War Industries Board, who conceived the idea which prompted us to consider arranging for such a conference, illustrates this thought by means of a perfect or isosceles triangle, of which agriculture is the base, labor one side and commerce the other side. If the value of any angle or the length of any side changed, the perfection of the triangle is destroyed and all will suffer. There is a balance and harmony which must be maintained between the several related elements. In an autocracy this balance might be maintained by mandate. For the continuation of a democracy, this balance must be preserved by the mutual effort of those interested. The present unfortunate conditions of business are due to the fact that labor, agriculture and commerce have failed to apprehend fully their necessary inter-dependence. This is not to be won-

dered at when we remember that, hitherto, agricultural societies have met by themselves; organized labor by itself and commerce by itself, and each has taken a counsel how best to advance its own interests without obtaining the advice or information of, or considering the effect upon the other. This one-sided view is the cause of many of our difficulties and estrangements.

Through such a conference as has been proposed, it is expected that the farmers, the workmen and the business executives, interested in construction, who jointly are the producers and the consumers of the construction commodities, will, by candid discussion and sincere examination of the views expressed by the others, arrive at the conclusion that the democracy of the construction industry is as essential as that of government. What American labor, agriculture and commerce needs today is not paternal supervision but a realization of the sense of cooperative endeavor. As Americans we do everything together except in business, and it is the opinion of the directors of the National Federation of Construction Industries that, through such a democratization of the construction industry there will be created in this industry a mutual trust, a respect and spirit of cooperation between hitherto separated classes.

Since the construction industry of this country annually produces over three billion dollars of additional permanent wealth, is the largest consumer of all materials, and affects the largest number of interests, the directors of this federation feel that the democratization of this industry should be the first undertaken because of the immediate, far-reaching, beneficial effects.

The same spirit of faith in our nation, unselfishness and unity of thought and action which gave us the victories of war will solve the problems of peace.

Text North Carolina Architect Bill

ONE of the few new offices created by the North Carolina general assembly of 1919 is that of state architect, the same carrying a salary of \$5,000, \$7,500 for assistants and such further amounts as may be needed for office expenses. Some changes are also made in the 1917 act creating the state building commission, which is entrusted with the distribution of the 1917 three million dollar bond issue for permanent improvements at the state's educational and charitable institutions.

Representative R. S. McCain, of Henderson, who was chairman of the House Appropriations committee, is the author of the bill to provide for a state architect. He conceived the idea after ascertaining,

during the hearings of the appeals from the various institutions, that the state was spending a great deal of money in architects' fees.

A senate amendment to the original bill provides that the architect may come from outside the state and will not be required to obtain a license as do architects practicing in North Carolina.

The text of the bill reads:

The General Assembly of North Carolina do enact:

Section 1. That section seven of chapter one hundred and fifty-four of the Public Laws of one thousand nine hundred and seventeen be and the same is hereby repealed and the following is enacted in lieu thereof: "The governor of the state is de-

rected, authorized and empowered to appoint a state building commission, to be composed of five members, three of whom shall be members of the majority political party of the state, and the state building commission shall organize in the city of Raleigh by electing one of its members chairman and one of its members secretary, and the said building commission shall have entire supervision, direction and control of the distribution of the proceeds of the bonds in this act directed to be issued to the several institutions and purposes hereinbefore named, and to the amount of each institution and purpose hereinbefore specified, and shall have the supervision of the buildings erected by the several institutions hereinbefore named for the purposes hereinbefore specified, except the sum of five hundred thousand dollars (\$500,000) herein authorized to be issued to the state board of education for the purpose of aiding in the building of the public schools of the state, and except further, that the committee on public buildings and grounds shall select and purchase, if necessary, the site for the state's storage warehouse. The said state building commission shall also have entire supervision, direction and control of any and all buildings hereafter constructed by the state or any institution under state control or management, and entire supervision and control of any alterations, repair or improvement of a permanent nature to be made upon any building now or hereafter to be constructed; the purpose of this act being to confer upon the said state building commission power and authority to supervise, control and direct all building operations of a permanent nature, which shall be done by the state or by any institutions under the control or management of the state. That in the event of any vacancy occurring in the membership of the state building commission, the governor of the state shall fill said vacancy from that political party represented by the retiring member of the commission; that the said commission shall meet as often as the business entrusted to them shall require, and the said meetings may be held in the city of Raleigh or any of the state's institutions; and the said commission shall be paid annually its necessary expenses out of the proceeds of the sale of the bonds herein authorized, when engaged upon work connected with any of the institutions specifically referred to in this act, and when engaged upon other work of the state, out of the funds of the state treasury, upon itemized statements duly verified by the said members and approved by the governor of the state, who, upon said approval, is authorized and directed to draw vouchers for such expenses; and, before any building shall be erected at any of the state's institutions, and before any permanent improvements shall be made to the state's institutions, the said building commission shall employ a competent architect to be known as the state architect, whose duty it shall be to draw and submit plans

and specifications for any public building to be erected, or where the said commission shall deem necessary, plans and specifications for any permanent changes, additions, or improvements to state buildings; and when approved by said commission, advertisement shall be made for the contract therefor and sealed bids invited upon such terms and conditions as the state building commission may prescribe.

The said state architect shall be paid a salary of five thousand dollars (\$5,000) per annum, and such amount not exceeding seven thousand and five hundred dollars (\$7,500) as the said commission may think necessary for additional help and expenses incurred in work on plans and specifications for state buildings, including necessary expenses for office rent and equipment. The said salary shall be paid monthly when approved by the chairman or secretary of said commission and be paid on a warrant of the auditor by the state treasurer out of such funds in the treasury as are not otherwise appropriated: Provided, that where the work done is for plans and specifications on buildings to be erected, repaired or altered under this bill, then out of funds appropriated herein, and provided further, that the commission may employ inspectors on said buildings who may be paid out of the funds appropriated for such buildings. The said person so elected as architect shall be known as the state architect and shall, when called upon, provide the necessary plans and specifications for state buildings to be erected, altered or repaired, and the said salary shall be in lieu of all commissions or other compensations: Provided, that the architect herein authorized to be selected by the state building commission shall not be required to have license provided for by chapter two hundred and seventy of the public laws of one thousand nine hundred and fifteen, and amendments thereof, regulating the practice of architecture in this state."

A Foreign Market at Home.

While American manufacturers are straining every nerve to build up a foreign trade for their goods, there is a foreign market at our doors which has hardly been touched. No doubt, just because it is so near at hand, it has been ignored, and the possibilities overlooked.

If it is profitable to spend hundreds of thousands of dollars and to send skilled "trade missionaries" to the Old World in order to educate the natives to American ways and American products, why would it not be quite as profitable to teach the thrifty foreigners in America to demand standard American goods and to live in American style? There is but one answer, it would pay and pay well.

There are in America 15 million foreign born, or including those of foreign parentage there are 33 million buyers of American goods. But a large proportion of them are not buying more than they have

to, because they prefer the familiar wares from their own countries. Many of them do not know about American goods or how to use them. Another reason that they are not buying more is that they have the habit of hoarding their savings to send abroad, denying themselves every comfort while in America so that they can live in grand style later on in the Old World.

It has been stated that \$1,500,000,000 are held by foreigners at present, awaiting transmission to Europe as soon as the bars are let down.

Foreigners are making good wages, but have little inclination to spend them. The time is ripe for an educational campaign to encourage them to live in American style, to teach them about American goods, in short to make these thrifty and prosperous people good customers for our products.

How can it be done? Largely through the foreign language press, because three million of their readers did not speak English when the war began, and twice that number were quite un-Americanized.

Interested members of the Inter-racial Council of New York, formed of some of the most prominent manufacturers and men of affairs in America, have recently bought control of the largest advertising agency dealing with the racial press, and henceforth the American Association of Foreign Language Newspapers will conduct an extensive campaign of publicity and advertising to acquaint the readers with the merits of our products, which many of the foreigners do not even know by name.

There are 1,146 American papers printed in foreign languages in the United States (excluding the German which number 483) and 85 magazines, many of them of wide circulation, attractive appearance and tremendous influence. They can become "trade missionaries" of the best sort when used to promote Americanism instead of European traditions. Through articles in his own language addressed to the foreigner describing American ways and standards of living, a desire will be created for the good things America has to offer, and we can expect, therefore, an indefinite expansion of this most profitable market.

March Shows Improvement in Building Industry.

Contracts let in March for building and construction projects will be in excess of the normal average for March in money value. This statement is made on the authority of the Division of Public Works and Construction Development of the U. S. Department of Labor which issued last night (Saturday night) figures on the contracts let in territory east of the Missouri and north of the Ohio rivers, for the first three weeks of March, together with an estimate for the remainder of the month.

The total number of contracts let for the third week in March was 1,945, representing a money

value of \$39,017,308. The New York district reported 186 projects involving \$8,372,682; Pittsburgh, 163 projects involving \$5,063,614; Boston 443 projects involving \$2,602,000. The Chicago district reported 741 contracts let involving \$19,212,298.

The record for the first three weeks of March was:

Week ending March 7, 1919\$27,751,076
Week ending March 14, 1919 29,851,407
Week ending March 21, 1919 39,017,308

Total\$96,619,791

From these figures has been omitted the Minneapolis district from which the total would be less than one million dollars.

"These figures not only show the increase from week to week," says the Department of Labor's statement, "but the indication of the month's probable showing is very gratifying. It appears likely that the entire month's figures will be between \$125,000,000 and \$150,000,000." The amount involved in contracts awarded in January of this year was about \$51,000,000 and in February about \$95,000,000; from which it appears the construction business certainly is 'picking up.' "

Figures for the month of March for several years, to the nearest million dollars, are as follows:

1911....\$69,000,000	1915....\$ 76,000,000
1912.... 73,000,000	1916.... 95,000,000
1913.... 64,000,000	1917.... 133,000,000
1914.... 59,000,000	1918.... 116,000,000

The present month does not have large government contracts to increase its amounts, as did the corresponding month a year ago. Nevertheless, it will be seen that the total is very likely to be about equal to March, 1917, and to exceed the amount for any other March during the period included in the table. It is to be remembered, however, that costs are higher and that the amount of construction of one of the earlier years would now, in common parlance, 'run into more money.' Index figures have been compiled as carefully as the nature of the case would permit, for the general cost of construction for the years from 1913 on, and the figures for these years have been converted into the cost in 1918, or the present time. The results, in round numbers, are:

1913....\$ 94,000,000	1916....\$132,000,000
1914.... 89,000,000	1917.... 153,000,000
1915.... 118,000,000	1918.... 116,000,000
Average of the six years\$117,000,000	

"From this it appears that, even with the proper allowance made for increasing costs, contracts have been awarded during the first three weeks of the present month for such an amount (nearly \$97,000,000) that the entire month will undoubtedly present a total considerably above the average of recent years."

The figures submitted further justify the state-

ments recently issued by the Department of Labor that building and construction work, the country over, gradually are approaching normal.

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.

29004.—A commercial agent in France desires to secure an agency for the sale of building materials, drugs, paints, varnishes, etc. Correspondence should be in French. Reference.

28763.—An American firm which is establishing an office in Spain desires to secure an agency for the sale of agricultural implements, tools, general hardware, builders' hardware, electric specialties, motors, leather, chemicals, dyes, lubricating oils, and paints. References.

28848.—A man in Italy wishes to secure an agency for the sale of sanitary appliances for house and surroundings, disinfectants, products thereof, construction materials, and wood for parquet floors, finished or unfinished. He is also in position to handle medicinal preparations, electrical appliances, or different grades of wax. Correspondence should be in Italian. References.

28772.—A man in France desires to secure an agency for the sale of hardware, building materials, household articles, etc. Correspondence should be in French.

28880.—A lumber firm in France desires to secure an agency for the sale of sawmill machinery, machines for parquetry, planers, ribbon saws, small machines for joiners' shops such as polishers, planers, ribbon saws, circular saws; machines for making dovetail pieces; machines for polishing; and all tools suitable for joinery work; also wood for carpenters and joiners, particularly pitch pine, pine, white wood, oak; and joinery, such as windows and doors delivered entirely finished and ready for hanging; and heavy automobile trucks. References.

29109.—A firm in England desires to purchase and secure an agency for the sale of railway rolling stock, mild steel sections, railway rails, cast steel castings, light railway equipment, railway stores generally, asbestos millboard, asbestos roofing, railway sleepers, French and Belgian standard, pressed steel work, built-up girder work, bridge work of a standard pattern, steel structures for building, wheels and axles, and all requirements for railway rolling stock and permanent railway equipment. Terms, cash against documents. References.

North Carolina Building Commission.

Selecting R. F. Dalton, prominent business man of High Point, as its chairman, the state building commission for North Carolina organized for work under the amendatory act of the last legislature. It was understood that the board was here to select a state architect, but it adjourned without naming one. J. H. Bridgers of Henderson was elected secretary of the commission.

Other members are Dan Patrick of Snow Hill, W. G. Privette of Wilkesboro and John J. Blair of Wilmington. All members besides Mr. Blair were present for the meeting.

Several of the state institutions were before the commission to obtain allotment of permanent improvement money provided for by the legislature, among the number being the Stonewall Jackson Training School at Concord, which was given \$25,000.

J. M. Kennedy and James A. Salter, both of Raleigh, have been mentioned for the state architect's job, which carries with it a salary of \$5,000 and \$7,500 for assistants. The board adjourned to an early date when it will make the appointment and announce its plans with reference to the erection of the new quarters of a million dollar home for the department of agriculture.

Raleigh, N. C., March Activities.

Building in Raleigh, N. C., increased materially during March as revealed by Building Inspector Mangum's March report. It shows that permits were granted for \$24,175 of new construction and \$2,015 of repair work.

During the month the inspector condemned 15 electric defects, 15 chimneys, 15 stove flues and inspected 34 newly wired buildings and five rewired old buildings. The fees of his office amounted to \$47.75—\$13.75 for building permits and \$34 for electric permits.

First Estimate of 1918 Lumber Cut.

A total lumber production of 32,760,000,000 feet is the estimated cut for the year 1918, on the basis of partial returns received by the Forest Service of the United States Department of Agriculture, from 731 sawmills, each one of which cut 5 million or more feet in the years 1917 or 1918.

In 1917 the total production amounted to 36 billion feet. The decrease in 1918 is not confined to any one region but is general. It is the largest in the Southern and Eastern states and least in the Western states.

Macon Building Permits.

During the first quarter of the year 365 building permits, aggregating \$244,444 were issued in Macon, Ga. This is an increase of exactly \$168,493 over the permits for the first quarter of 1916 in that city.

Trade Notes of Interest

Information for Advertisers.

Complete copy and cuts for all advertisements (cuts to be mortised when required) must be in the office of publication at least twenty-five days previous to publication date where proof is required. Right is reserved to repeat last advertisement when new copy is not furnished at the time stated.

The publishers will not be responsible for the use of wrong cuts unless proofs of same are pasted on original copy.

When You Write to Advertisers.

When you write to any of our advertisers, won't you kindly say somewhere in your communication that the inquiry comes from a reader of this magazine? Advertisers are human; they like to know that the medium wherein they spend their money is received and consulted by users of material such as this medium represents. Not being mind readers, they can only know this when you tell them, and if you neglect to tell them, we are deprived of credit for the service rendered.

Information on Welding.

The Page Steel & Wire Co., 30 Church Street, New York, N. Y., have recently issued an interesting booklet entitled "Armeo Iron Rods and Wire" which is more than a catalogue. It is a real hand book of information on welding and welding materials, being profusely illustrated with tables and methods which apply directly to the subject at hand. This will be gladly sent to anyone on request.

Mr. Frederick Weber Passes.

F. Weber & Co., Philadelphia, Pa., have sustained a real loss in the death of their Mr. Frederick Weber, which occurred Tuesday, March 18. For over thirty years Mr. Weber has been active in the business.

New Catalogue from Zieg.

The F. B. Zieg Mfg. Co., Fredericktown, Ohio, manufacturers of Butler Pipeless Furnaces, have recently issued a new catalogue, which besides giving detailed information about their products, contains much valuable information for the trade. A copy of this catalogue will be sent on request to inquiring parties.

New Officers American Pressweld Radiator.

The American Pressweld Radiator Corp. announce the election of new officers for 1919 as follows: Mr. C. H. O. Meyer, president; Mr. R. S. Drummond, vice-president; Mr. H. F. Hiney, treasurer; Mr. John A. Irwin, secretary and manager.

Mr. R. S. Drummond was formerly vice-president

and general manager of the Detroit Steel Products Co., and Mr. Hiney was associated with him at the Detroit Steel Products Co.

The company is bringing out several new items of manufacture, and under the new management will undertake a very aggressive manufacturing and selling policy of the different PRESSWELD products.

Treatise on Malleable Iron.

At last an authentic treatise on "malleable iron" has been written and published.

It is entitled "Malleable Iron" and is issued gratuitously by the American Malleable Castings Association, headquarters, Cleveland, Ohio.

Although phenomenal progress has been made in this particular industry during the last few years, little or no progress has been made in keeping the public informed regarding such activities.

In fact there is but one book on the market today treating on malleable iron and it is so many, many years out of date that it is of little value.

The latest booklet—although but a forerunner for a very comprehensive volume to be issued later by the association is filled with most valuable data.

It is divided into three parts:

Part I.

What is Malleable Iron

Part II.

The American Malleable Castings Association.

Part III.

The Uses of Malleable Iron Castings.

Can Heavy Sections of Malleable Iron Be Completely Annealed?

Malleable Iron Castings Resist Rust.

Malleable Iron Castings Resist Rust.

A copy of this book will be sent to anyone mentioning this paper if they address the association at Cleveland, Ohio.

The Hoffman No. 1½-D Instantaneous Automatic Heater.

This is a new addition to the "Hoffman" line and is a heater at a popular price and one that there is a great demand for in cottages, bungalows and flat buildings, and especially in the Southern territory and on the Pacific Coast.

This heater has a capacity of heating one and one-half gallons of hot water per minute. It is Thermostatically controlled, has a cast iron jacket and is built to either set on the floor or on brackets. It is of a very attractive design and as a rule it is placed in the kitchen and will supply hot water to any and all fixtures throughout the house.

This heater lists at \$50.00 and is one of the greatest values offered today in the way of an automatic heater.

Building and Construction News.

Buildings and Apartments.

Tulsa, Okla.—H. J. Brickner will erect residence; frame; cost \$2,000.

Tulsa, Ok.—Kounghz will erect residence; frame; cost \$2,500.

Tulsa, Okla.—C. H. Rawson will erect frame residence; cost \$3,000.

Tulsa, Okla.—H. C. Stahl will erect residence; frame; cost \$2,500.

Camden, S. C.—Leroy Springs Davidson will probably erect dwelling to replace structure lately-noted damaged by fire.

Lewisburg, Tenn.—S. T. Morton will probably rebuild residence lately noted damaged by fire at loss of \$6,000.

Lyles, Tenn.—United States Housing Corporation, Otto M. Eidlitz, director, 613 G. St., N. W., Washington, is having plans prepared by Edward E. Dougherty, Stahlman Bldg., Nashville, for dwellings.

Dallas, Tex.—F. Swor will erect residence; frame; 4 rooms; cost \$2,300.

Georgetown, Tex.—J. S. Harris will probably rebuild residence lately noted damaged by fire at loss of \$2,500.

Houston, Tex.—D. Miller will erect 5-room residence; cost \$2,450.

Houston, Tex.—C. Belk will erect 6-room dwelling; cost \$2,850.

Houston, Tex.—E. C. Brock will erect dwelling; 5 rooms; cost \$2,200.

Houston, Tex.—R. E. Morse, Jr., will erect dwelling; 2 stories; 8 rooms; cost \$2,000.

Houston, Tex.—W. C. Branum will erect 2 dwellings; 5 rooms; cost \$2,000 each.

Houston, Tex.—W. E. Tynes will erect \$2,000 dwelling; 5 rooms.

Houston, Tex.—J. C. Funk will erect dwelling; 5 rooms; cost \$2,000.

Hagerstown, Md.—A. K. Cogman will erect addition to apartment house on W. Franklin street.

Kansas City, Mo.—C. E. Phillips Building Co. will erect apartment house at 10th and Central streets; 3 stories and basement; 42 x 119 feet; brick; stone trim.; composition roof; cost \$60,000; N. E. Peters, Archt., 715 Dwight Bldg., Kansas City; construction by owner, who receives sub-bids.

St. Louis, Mo.—William H. Baker will erect 2 flat buildings on St. Louis Ave., between Marcus and Euclid Aves.; brick.

Columbia, S. C.—J. Rinkin has plans by Chas. C. Wilson, Columbia, for frame apartment-house; 4 apartments; 2 stories; heat not determined.

Nashville, Tenn.—South Nashville Improvement Assn., J. J. Hill, Chrmn. Building Committee, will erect apartment house at Lindsley and First Aves.; 18 apartments; cost \$50,000.

Fort Worth, Tex.—William Monnig is interested in organization of stock company with \$300,000 capital to erect apartment houses and dwellings.

Tulsa, Okla.—Judge J. F. Gilmore will erect \$35,000 dwelling on Country Club avenue.

Laurens, S. C.—Laurens Cotton Mills Co. will rebuild numbers of employes' cottages; equip with water and sewerage systems.

Chattanooga, Tenn.—Herman Pechman has plans by W. H. Sears, Chattanooga, for 15 bungalows in Highland Park; cost about \$75,000.

Schools and Colleges.

Birmingham, Ala.—Dr. W. H. Mixon is having plans prepared by W. H. Rayfield & Co., Birmingham, for building at Walker street and 11th avenue for Roosevelt Memorial School for Girls; 72 x 140 feet; semi-fireproof; tar and gravel roof; pine floors; steam heat; electric lighting; cost \$50,000; date opening bids not determined. Address Archts.

Earle, Ark.—Earl Special School District will erect \$100,000 high school. Address District School Trustees.

Ramer, Ala.—Montgomery County Board of Education, Montgomery, receives bids until May 7 to erect brick school building; W. F. Feagin, County Superintendent of Schools; Frederick Ausfeld, Archt., Montgomery, Ala.

Jonesboro, Ark.—State Agricultural School, V. C. Kays, Prest., receives bids until May 16 for material and labor to erect brick engineering building and brick Y. M. C. A. building according to plans of Frank M. Blaisdell, Little Rock; material to be purchased by owner, who will construct foundations; labor only to be contracted for.

Gainesville, Fla.—Gainesville Special School Tax Dist. No. 26 votes May 20 on \$150,000 bonds to erect, enlarge and improve buildings for white and colored schools; E. R. Simmons, Secy., Alachua County Board of Public Instruction, Gainesville.

Green Cove Springs, Fla.—Clay County Board of Education plans to call election on \$50,000 bonds to erect school building.

Columbus, Ga.—City Board of Education is having plans prepared by T. F. Lockwood, Murrah Bldg., Columbus, for grammar school building; California type; stucco; 1 story; 8 rooms; tile roof; steam heat; cost \$22,000; lets contract in May; Roland B. Daniel, Supt of Schools.

Fort Valley, Ga.—City voted \$39,000 bond issue to include \$15,000 for school annex and \$24,000 for paving; plans for school provide 8 to 10 rooms; brick and concrete; slate or other fireproof roof; pine floors; steam heat.

Norwood, La.—Parish School Board will call election on \$15,000 bonds to erect high school in Fourth Ward; equip with waterworks, electric lights, etc.; D. G. Lunsford, Supt. of Schools, Clinton, La.

Gonzales, La.—Parish School Board will erect school building; cost \$60,000.

Chattanooga, Tenn.—City, H. D. Huffaker, Commr., is having plans prepared by Clarence T. Jones, James Bldg., Chattanooga, for Howard high school building; fireproof; tar and gravel roof; reinforced concrete floors; steam heat; electric lighting; cost \$125,000 to \$140,000.

Henderson, Tenn.—Freed-Hardeman College is having plans prepared by McGee & Lester, Memphis, for dormitory; 94 x 85 feet; brick; metal roof; concrete and wood floors; electric lighting; heating not determined; cost \$30,000; bids opened about June 1. Address J. G. Hardeman, Henderson.

Knoxville, Tenn.—City opens bids about June 1 to erect high school addition, auditorium and gymnasium; 190 feet on Central avenue by 200 feet on Fourth avenue; ordinary construction; brick walls; wood joists; gravel roof; marble-oid floors; return air line vacuum heat; electric lighting; cost \$150,000; Albert B. Baumann, Archt., 713 Henson Bldg., Knoxville.

McKenzie, Tenn.—City plans to erect 2 or 3 school buildings for McTyeire Training School for Vanderbilt University, Nashville; cost not less than \$50,000. Address Will Regenold, Chrmn., 141 Magnolia St., McKenzie.

Bank and Office.

Decatur, Ga.—Bank of Decatur is having plans prepared

by Edwards & Sayward, Atlanta, for building; 60 x 90 feet; brick; roofing and flooring not decided; cost about \$50,000. Address Owner.

Louisville, Ga.—Bank of Louisville has plans by A. Ten Eyck Brown, Forsyth Bldg., Atlanta, for building.

Bowling Green, Ky.—City National Bank, Robt. Rodas, Prest., is having plans prepared by St. Louis Bank Equipment & Fixture Co., St. Louis, to enlarge building; 48 x 100 feet; steel, concrete and stone; fireproof roof; concrete floors; steam eat; wiring and fixtures for lighting.

Monticello, Ky.—Monticello Banking Co. plans to erect building on Upper Main St., 25 by 75 feet; pressed brick and stone; metal roof; cost \$16,000; lets contract about June 1; architect not selected and other details not determined.

Napoleonville, La.—Bank of Napoleonville will erect bank building; Louis Corde, Director.

Snow Hill, Md.—Deposit & Savings Bank, O. M. Purnell, Prest., will erect addition to building.

Charleston, Miss.—Bank of Charleston opens bids June 1 in office of Hanker & Cairns, Archts, Memphis, Tenn., to erect building; terra-cotta; gravel roof; concrete floors; cost about \$100,000.

Charlotte, N. C.—Merchants & Farmers' National Bank, W. C. Wilkinson, 1st V.-P., leased Burwell & Dunn building and will remodel for bank building; 3 stories; install front, marble counters, banking fixtures, finish interior, etc.

Greenwood, S. C.—Dr. G. W. Gardner will improve Commercial Bank building; enlarge structure, install additional vault, directors' room, officers' room, etc.; contemplates erecting additional stories in future.

Greenwood, S. C.—People's Bank, B. F. McKeller, Prest., has plans by Thos. W. Cothran, Greenwood, for 3 additional stories to building on Public Square at West and Oak Sts.; fireproof; reinforced concrete; tile (Barrett) roof; tile floors in toilets, corridors and lobby; wood-wearing surfaces in offices; low-pressure steam heat; city lighting; will purchase and install 2 passenger elevators; date opening bids not determined. Address Architect or Mr. Keller.

Jellico, Tenn.—United Mine Workers of America is having plans prepared by A. B. Baumann, Knoxville, for office building.

Nashville, Tenn.—National Life & Accident Insurance Co., 7th Ave. and Union St., purchased site and will erect office building.

Winston-Salem, N. C.—Wachovia Bank & Trust Co. has awarded the contract to Gogle Bros. Co. for the \$325,000 addition to their building. Milburn, Heister & Co., Archts.

Ranger, Tex.—M. Plosky, Cisco, Tex., and Joe Goldenstein, Ranger, will erect store and office building.

Sweetwater, Tex.—Texas Bank & Trust Co. plans to erect 5-story building; 50 x 140 feet; architect not selected and details not determined.

Velasco, Tex.—Ancient Free and Accepted Masons will erect lodge building; lower floor for bank and store.

Newport News, Va.—Newport News Bank & Trust Co. is having plans prepared Rossel Edward Mitchell & Co., Ltd., Paul-Gale-Greenwood Bldg., Norfolk, to remodel building on Washington Ave.; cost \$10,000.

Norfolk, Va.—James E. Woodhouse and associates plan to erect store and office building.

Roanoke, Va.—National Exchange Bank plans to erect building at Campbell and Jefferson Sts.; probably brick, stone and concrete; cost \$100,000.

Stanaford, W. Va.—Elkhorn Piney Coal Mining Co., C. M. Binford, Supt., will erect office building.

Churches.

Fort Smith, Ark.—First Methodist Church purchased site at N. 15th and B Sts. and is reported to erect \$150,000 building. Address The Pastor.

Vero, Fla.—St. Helen's Catholic Church, Father Gabriel, pastor, Fort Pierce, Fla., plans to erect building; 30 x 75 feet; solid brick foundation; frame with stucco; galvanized metal shingle roof; city lighting; cost \$5,000.

Commerce, Ga.—First Methodist Church will erect building. Address The Pastor.

Columbus, Ga.—Rose Hill Baptist Church, Rev. L. A. Henderson, pastor, is having tentative plans prepared for Sunday school building.

Rome, Ga.—Fifth Avenue Baptist Church will improve church and erect addition to Sunday school; cost \$12,000; L. A. Dean, Supt. of Sunday school.

St. Martinsville, La.—Catholic Church, Father Peters, pastor, will remodel and erect addition to building; cost \$20,000.

Vicksburg, Miss.—Heroden Baptist Church, Rev. E. Hawthorne, pastor, is having plans prepared by W. A. Rayfield & Co., Birmingham, Ala., for building at 1000-1003 North St.

Roanoke Rapids, N. C.—Rosemary Methodist Church, Rev. Chas. M. Lance, pastor, has plans by R. L. Tippet, Roanoke Rapids, for parsonage; frame; pine floors; 8 rooms; electric lighting.

Oklahoma City, Okla.—Trinity Baptist Church, J. H. L. Hawkins, pastor, will resume work on \$50,000 structure; basement completed.

Okmulgee, Okla.—First Presbyterian Church will erect building; cost about \$65,000. Address The Pastor.

Dyersburg, Tenn.—Baptist Church will erect building; cost \$60,000. Address The Pastor.

Dallas, Tex.—Tefereth Israel Congregation, W. M. Levy, Secy., will erect synagogue; cost \$65,000 to \$75,000.

El Paso, Tex.—Central Baptist Church, Rev. George W. McCall, pastor, has plans by O. H. Thorman, 725 First National Bank Bldg., El Paso, for building at Virginia and Montana Sts.; 1 story; brick and steel; cost about \$100,000.

Fort Worth, Tex.—Hemphill Heights M. E. Church South is having plans prepared by W. C. Meador, Wheat Bldg., Fort Worth, for building at Shaw and Lipscomb Sts.; 2 stories and basement; brick and hollow tile; asbestos shingle roof; cost complete \$45,000.

Fort Worth, Tex.—First Baptist Church has plans by W. C. Meador, Wheat Bldg., Fort Worth, addition to auditorium at 4th and Taylor Sts.; 50 x 80 feet; 2 stories and C. Leonard, pastor, will erect building; cost about \$50,000. tion by day labor.

San Antonio, Tex.—Trinity Methodist Church, Rev. H. C. Leonard, pastor, will erect building; cost about \$60,000.

Berkley (P. O., Norfolk) Va.—Mikro Kades Congregation, A. J. Legum, Treas. Building Committee, is having plans prepared by Rossel Edward Mitchell & Co., Ltd., Paul-Gale-Greenwood Bldg., Norfolk, for synagogue; brick, stone and wood joist construction; 45 x 85 feet; slate roof; oak floors; warm-air heat; cost \$35,000; bids to be asked soon.

Boyce, Va.—Protestant Episcopal Church, Rev. B. D. Chambers, rector, is having plans prepared by C. Morgan Marshall, 121 Mercer St., Baltimore, to rebuild parish-house; stone; slate roof; other details indefinite. prepared by Milburn, Heister & Co., Union Savings Bank prepared by Milburn, Heister & Co., Union Savings Bank Bldg., Washington, for building; hollow tile; cost \$10,000, plans ready for contractors May 10. Address Father Lackey, Clarendon, Va.

Public Buildings.

St. Petersburg, Fla.—City Commrs. are considering calling election on \$90,000 bonds for improvements to include \$50,000 addition to City Hospital, \$25,000 to build concrete bridge across Booker Creek, \$10,000 to construct concrete bandstand and comfort station in Williams Park, and \$5,000 to erect comfort station at City Hall; plans for latter prepared by W. S. Shull, St. Petersburg.

New Orleans, La.—Dock Board Commrs. will erect storage sheds, etc., in connection with ship-coaling dock; divided into 5 compartments; capacity 25,000 tons coal; bin 85 x 580 feet; J. D. O'Reilly, Chief Engr. Dock Board.

Meridian, Miss.—Meridian Convention Bureau organized with James Bozeman, Secy., to arrange plans for financing purchase of site and erection of auditorium with seating capacity of about 5,000.

Burlington, N. C.—City has gift of \$100,000 to erect com-

munity building; plans include gymnasium and swimming pool, clubrooms and gamerooms for boys and girls, bowling alleys, classrooms, library-rooms, motion-picture equipment, auditorium, restrooms, lockers, dressing-rooms, etc.; J. L. Scott, Chrmn. of Executive Committee.


Idabel, Okla.—McCurtain county is having plans prepared for courthouse and jail.

George West, Tex.—Live Oak county Commrs. are having plans prepared for courthouse and jail.

Bessemer, Ala.—Jefferson County Board of Revenue is having plans revised by H. B. Wheelock, Steiner Bldg., Birmingham, for completion of courthouse.

Gilmer, Tex.—Treasury Department, Jas. A. Wetmore, Acting Supervising Archt., Washington, D. C., opened bids to erect postoffice building; Henry & Hatfield Construction Co., Indianapolis, Ind., is lowest bidder at \$48,572.

**FOR USE
WITHOUT
RUNNING
WATER**



SANITARY SEWAGE DISPOSAL

WITHOUT SEWERS

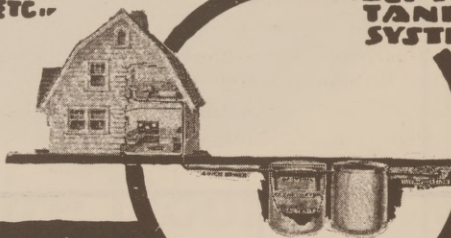
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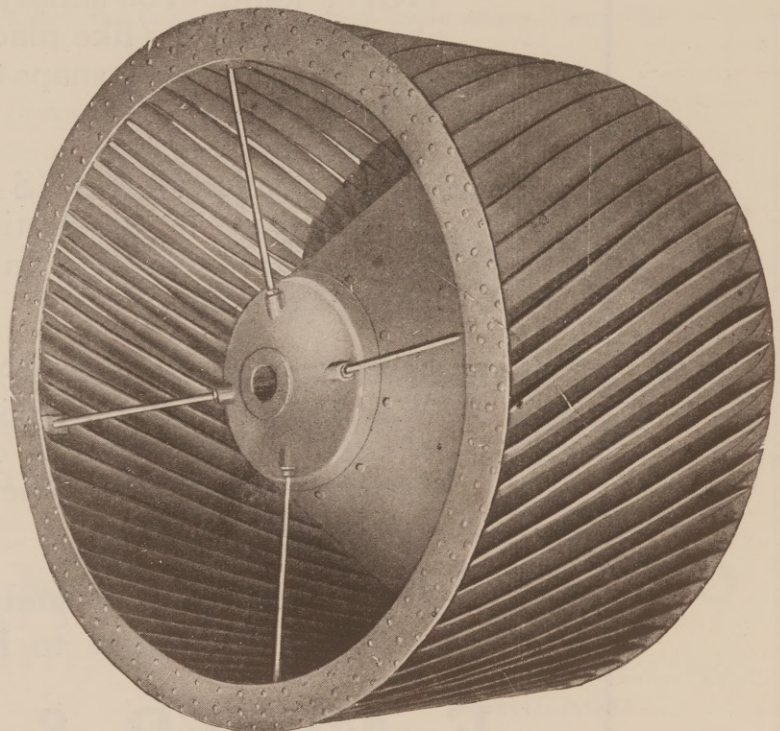
CHARLOTTE NORTH CAROLINA



**SEPTIC TANK
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AND
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**FOR USE
WITH
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Our
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Right in this Little Clip is the Secret of “HANDY” PIPE

This little clip, when mounted onto a section of HANDY pipe, makes the Handy STICK TIGHT joint. You simply push two sections of pipe together (like placing the cap on a fountain pen) and it snaps to a tight fit—AND STAYS TIGHT!

The vent holes ALWAYS exactly correspond with those in the next section, thus allowing a free passage of air between the inner and outer walls of the pipe.

These things mean that HANDY pipe delivers ALL the heat thru the register into the rooms where wanted—instead of allowing it to escape and radiate into the partitions where it does no good.

Use HANDY Pipe and Your Jobs Will
Cause Customers to Boost for You.

F. MEYER & BRO. CO.

Peoria,

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Showing installation of Evans "ALMETL" Fire Doors in plant of Liggett & Myers Tobacco Co., Lexington, Ky.

THIS great plant is equipped throughout (both sides of all openings protected) with

Evans "ALMETL" Fire Doors

(Patent Pending)

Hundreds of other nationally known firms have installed Evans "ALMETL" Fire Doors and Shutters, which are paying for themselves in reduced insurance rates, and also protect production, the loss of which may mean many times the cost of the plant itself.

Evans "ALMETL" Fire Doors and Shutters are made of double panels of corrugated galvanized steel, interlined with high grade asbestos and rigidly bound in a frame of continuous bar iron. Warping and distortion is impossible.

They are approved by the Underwriters' Laboratories, Chicago; Factory Mutual Laboratories, Boston, and by over 250 National, State and Municipal Authorities on Fire Prevention.

The U. S. Government approved and is using Evans "ALMETL" Fire Doors and Shutters in many important permanent buildings.

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 These are plastered throughout with Cherokee Cement Plaster. Sold by Agents everywhere in Georgia and throughout the Southern States.

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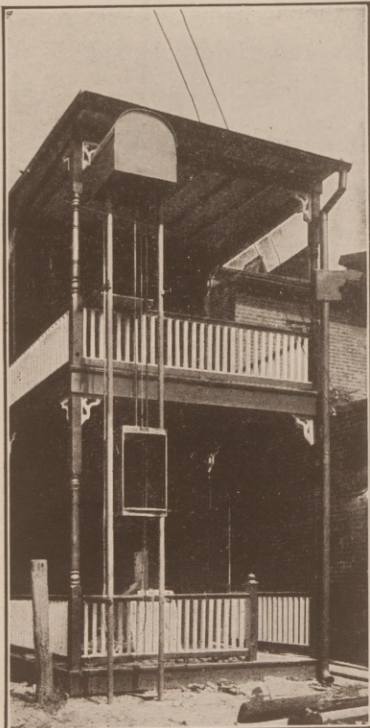
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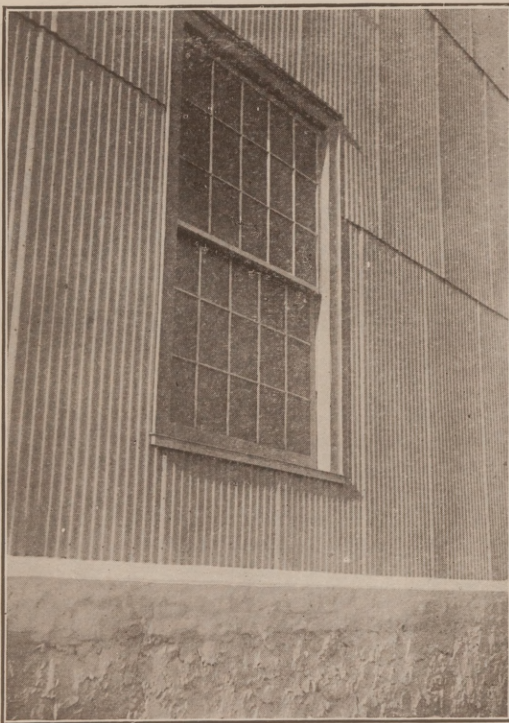
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STANDARDized construction permits Prompt Delivery and Quick Erection.

Write for Prices.

AMBLER ASBESTOS BUILDING PRODUCTS**Ambler Asbestos Corrugated Roofing**

Applying Ambler Asbestos Corrugated Roofing on Steel Structure



Ambler Asbestos Corrugated Siding, showing method of fitting around windows
Window frame constructed of Ambler Asbestos Building Lumber

Ambler Asbestos Corrugated Roofing and Siding

Hydraulic Cement
Reinforced by Asbestos Fibre

Waterproof Everlasting Fireproof

MANUFACTURED BY THE

Asbestos Shingle, Slate & Sheathing Company

AMBLER, PENNA.

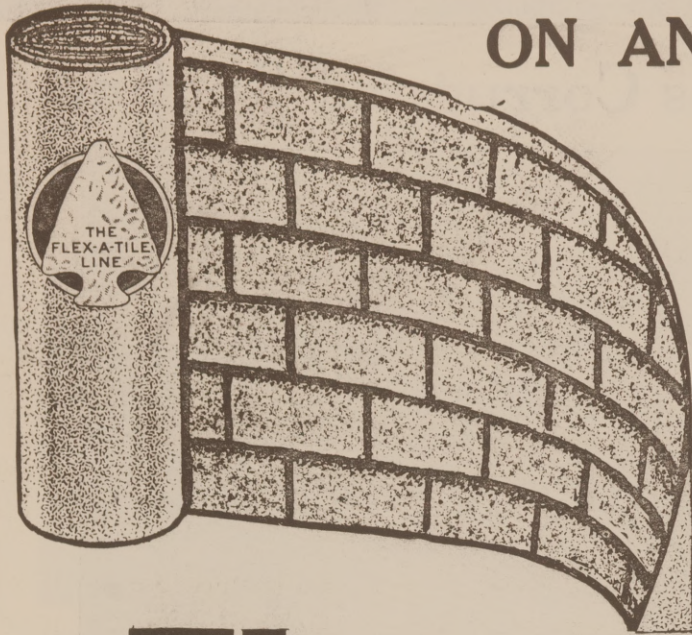
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Asbestos Building Lumber and
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There is Satisfaction in Flex-a-Tile Roll Shingle Roofing.
As Distinct as the Name.

For the Owner—Who wants a pleasing shingle effect combined with wearing qualities.

For the Contractor—Who must have a roofing he can recommend and know is best from his own standpoint.

For the Dealer—Who is looking for a profit-making, fast-selling, dependable proposition.

Flex-a-Tile

HOUSE TOPS

Flex-a-Tile Roll Shingle Roofing is one of the most popular of the Flex-a-Tile roofing group. It has all the enduring, artistic and ornamental features of the whole Flex-a-Tile family, but is easier to apply and cheaper. It gives that perfect satisfaction which comes from a thing well yet inexpensively done.

Any Mechanic can apply a Flex-a-Tile Roof quickly and easily. In the case of an old roof to be reshingled, simply roll the Flex-a-Tile Roll Shingle Roofing over the old shingles and nail down. No bother and dirt from tearing off the old shingles. On a new building it is nailed right on to the sheathing. Requires no skill. The saving in labor alone is great.

Perfect Shingled Effect—By our patented process each 5" x 7" shingle butt is raised so noticeably that it can be felt with the hand. This makes the shingle effect finished and pleasant, not a crude imitation, and yet the shingles are all in one roll.

Flex-a-Tile Quality—with all of its well-known resistance to **Water—Heat—Cold—Wind**—goes into each roll. When a dealer sells a Flex-a-Tile roof he has made a permanent customer; when a man uses it for his house he is its best advertisement. Flex-a-Tile Roll Shingle SAVES

35% on Freight.
38% on Nails
50% on Labor

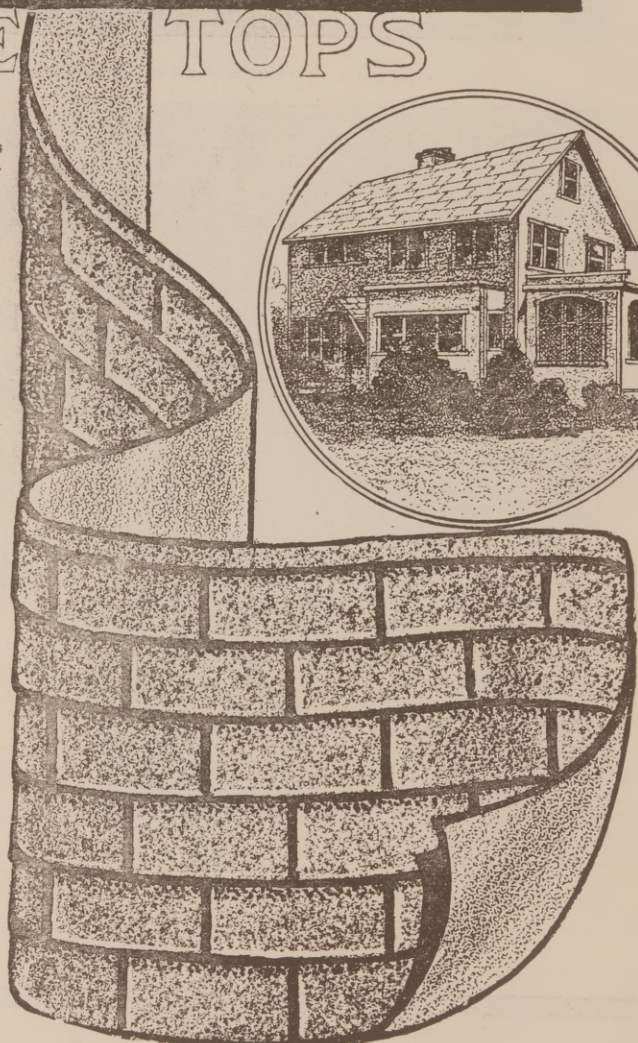
Reduces Insurance, because it is in Class "C" as approved by the Fire Underwriters' Laboratories. Flex-a-Tile has no superior in Waterproofing Qualities. Send for Sample. Ask us to help you on your roofing problems. We want to serve you. Ask us for Bulletins 1511 and A 23.

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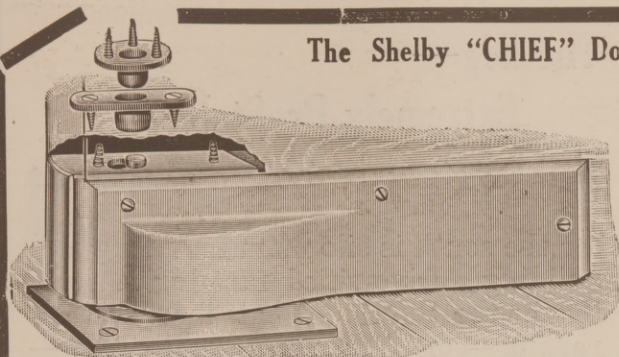
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Installation of pivot and socket greatly simplified.
Bore a $1\frac{1}{2}$ inch hole $\frac{1}{8}$ inch deep in top jamb for rim of pivot and $\frac{1}{4}$ inch hole in top of door to receive the socket. Secure with wood screws, allowing the thickness of metal of socket for clearance between door and top jamb.

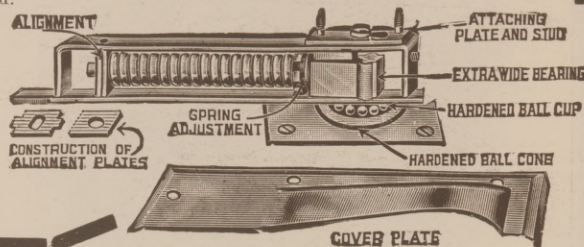
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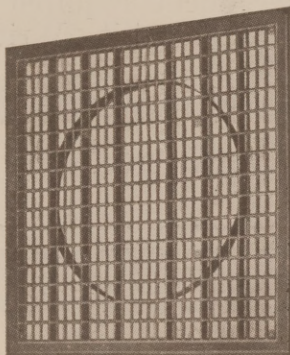
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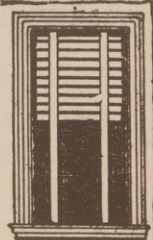
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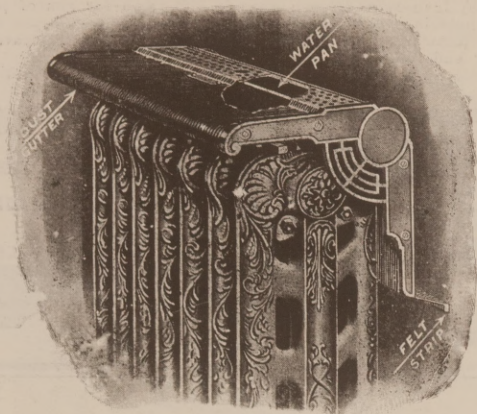
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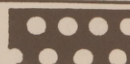
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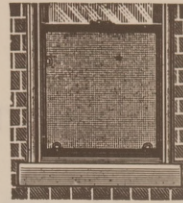
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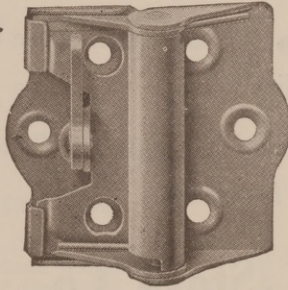
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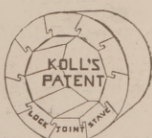
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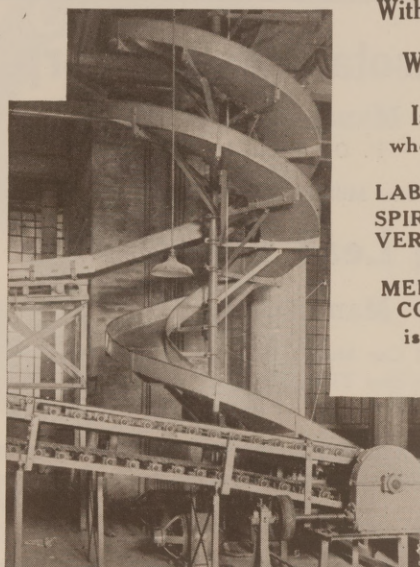
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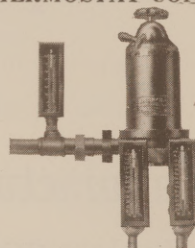
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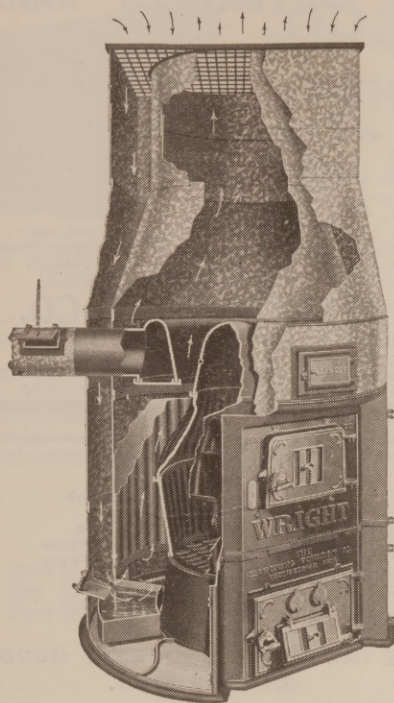
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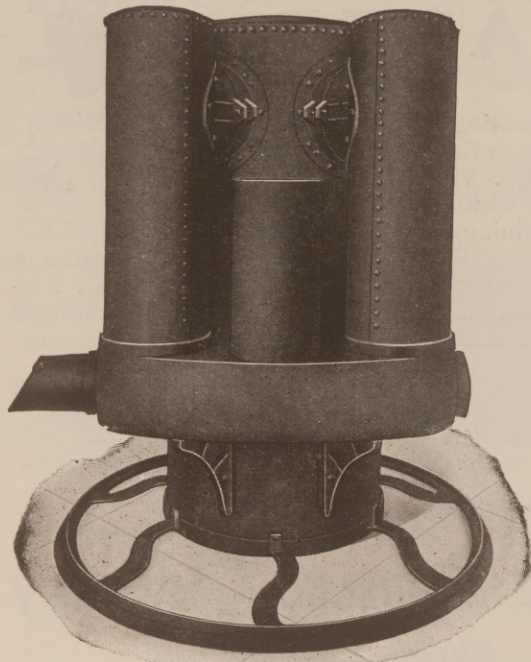
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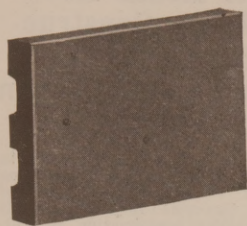
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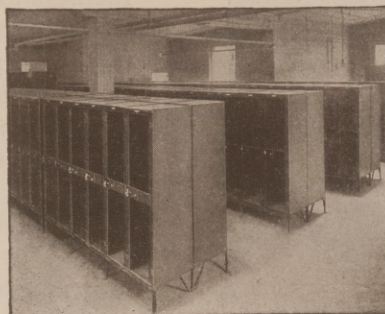
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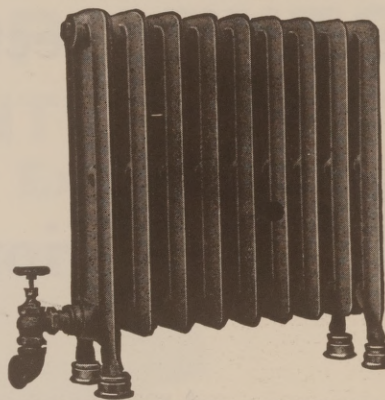
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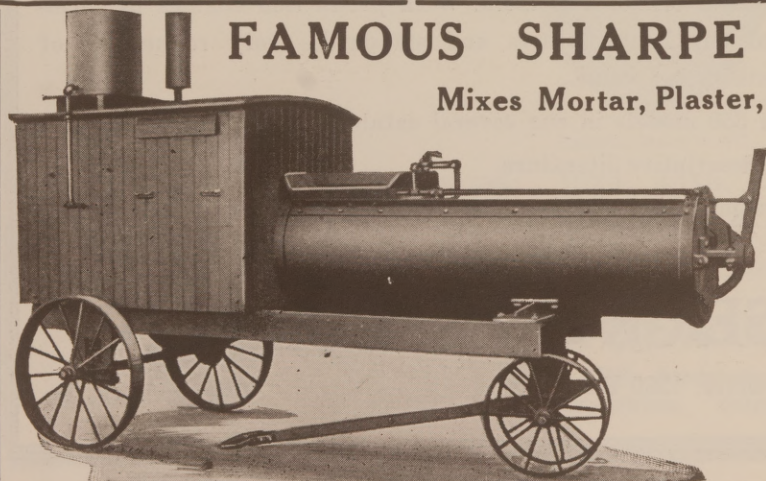


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Simply the twist of your wrist unscrews it—raises it or lowers it as you desire.

A sample will be sent free upon request. Sold by jobbers.

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have no garbage cans at the back door step.

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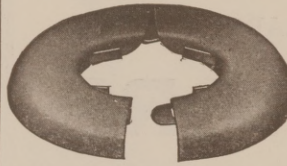
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B & C Plates can be put on at the completion of your work and fastened securely thru a simple but positive lock joint. The B & C Catalogue shows the unique construction of our many types and tells the full B & C story. What is your name and address?

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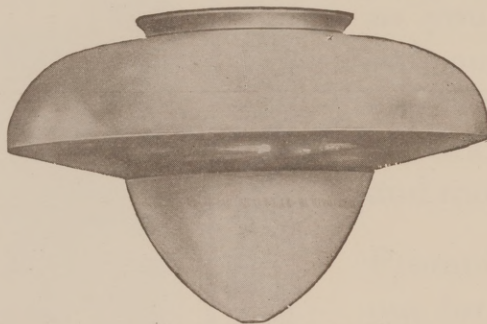
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In individual cartons, crated.

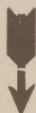
The unit without a bad habit.



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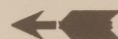
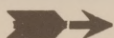
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“THAT POLK SYSTEM JUNIOR machine is proving to be a wonder as a business getter. Builds garages, well-houses, corn-cribs and water tanks as well as silos. Four-inch-wall machine, you know, that builds a monolithic concrete silo which competes dollar-for-dollar with the good grade of wood-stave types.

“It is cheaper than other concrete silo machines and it gets the low and medium-priced business, which ordinary machines can't touch. Besides, it builds those other circular concrete buildings that are also greatly in demand.

“Yes, the company will promptly send you full particulars.”



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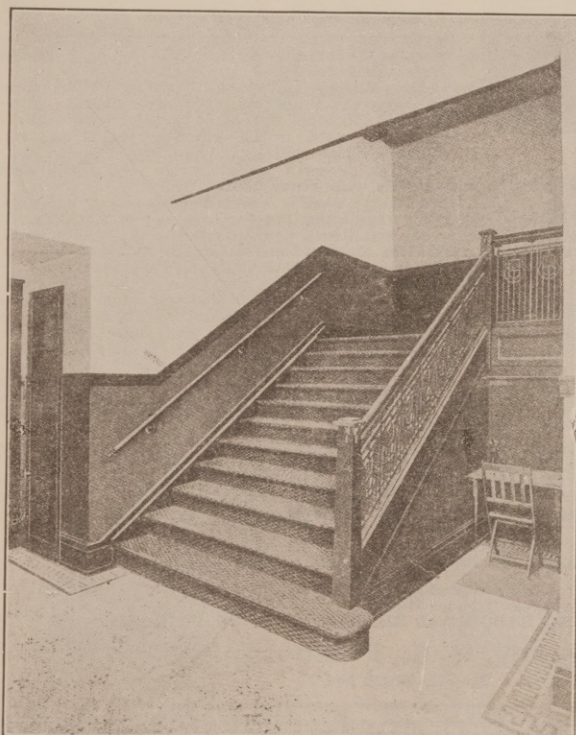
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Feeling Proud Of Your Work

Not one builder in a hundred likes to put up cheap, flimsy buildings and you are no different than the rest, in that respect.

Of course, you usually put on the kind of roofing that is specified, but there are many cases where you can recommend slate.

That is the roofing you can feel proud of as long as you live, because it will outlast the building and require little, if any, repairs. It is fireproof and most economical.

Prompt shipment from our forty quarries' average stock of 150,000 squares.



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Wall Moulding and Dental Plaster

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For Patching and Repairing Marble, Granite, Slate and
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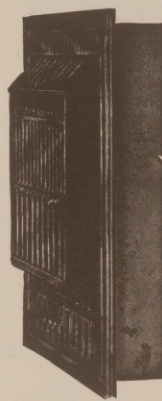
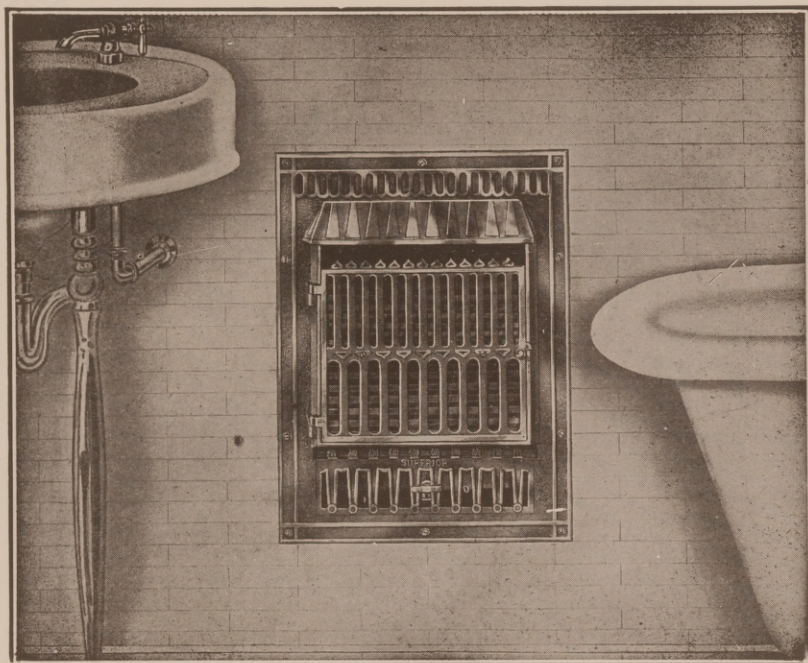
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U. S. Pat. June 28,

1910

Side View

Side of Cast

Front:

14 ins. wide

18 ins. high

Size of Body

of Heater:

12½ ins. wide

16½ ins. high

4½ 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

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.

ODORLESS AND FLUELESS

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.

NO FLUES

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NO ASBESTOS

NO LARGE GAS BILLS

NO DANGER FROM FIRE

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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.

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Entire building except first floor
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34 oz. Crystal Sheet Glass

It's cheaper than Polish Plate
Just as practical

If you want samples, prices or any information, setting forth the advantages of this product, write for any information you desire.

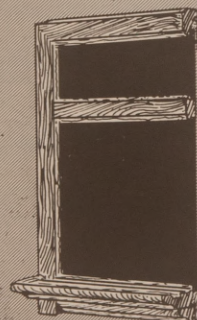
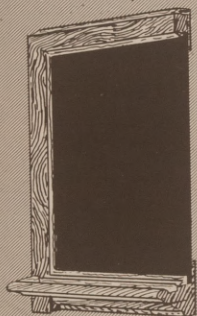


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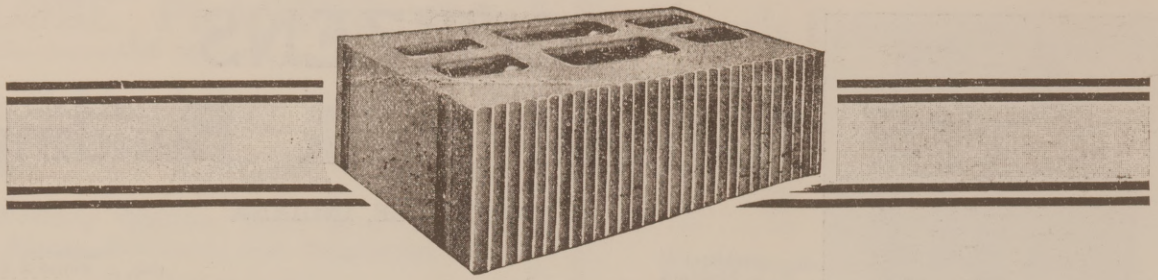
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"Absolutely Satisfactory"



McIntyre Live Air-Space Building Tile

—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.

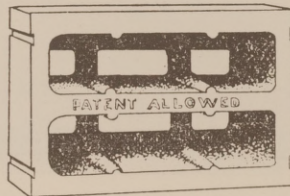
It lays up a wall that admits air at the bottom and lets it out at the top under the roof plate. This blanket of live air is a perfect insulator.

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.



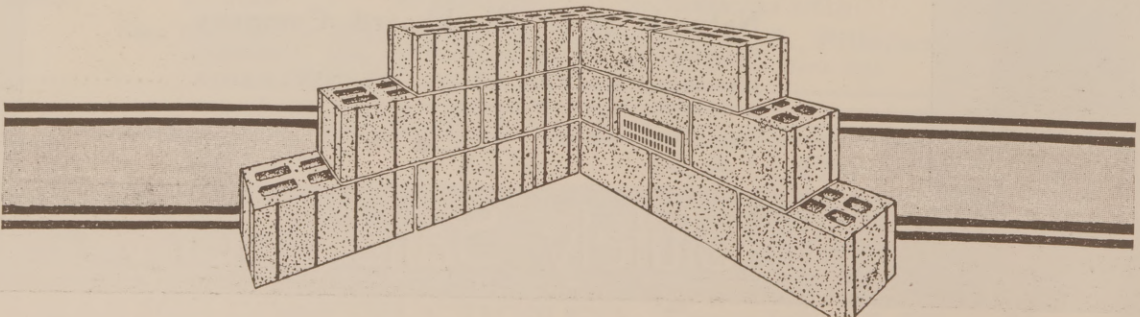
Bottom View of McIntyre Building Tile

Note that this tile when laid in the wall really forms a triple concrete wall with two blankets of liveair 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.

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.

Write for complete details, which will be outlined to you frankly.

The Concrete Engineering Co., Engineers Building **Cleveland, Ohio**
Exclusive Sales Agent for
The Automatic Concrete Machinery Company



A Real and Complete Protection

Hundreds of industrial plants are securing efficient protection against thieves and enemy agents through the use of Page "Wire-Link" Fabric. Years of experience—in many cases, costly losses—have demonstrated the imperative need for enclosing both the factory itself and various special departments.

Page "Wire-Link" Fabric is ideal for both interior and exterior use, and offers a perfect protection material. It is light, durable and sightly. It is most resilient. The peculiar construction of

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renders it impervious to hard blows. Why not profit by the experience of others and secure Page Protection before the plant suffers misfortune?

Every manufacturing institution needs these partitions for stock-room protection; for protection to freshly painted products; for enclosing parts of the plant and portions of rooms without cutting off the light; for protecting machinery, tools, blue prints and other valuable items. No areas are disturbed, it is self-supporting, no light is cut off; it is sanitary and fire-proof.

Page "Wire-Link" Fabric partitions will add the best possible watchman to your staff.

Also think of the many advantages of Page "Wire-Link" Fencing for the exterior of your plant—unclimbable—fire-proof—sanitary, real protection against incendiaries and thieves.

When you consider this positive protection, the improved appearance of your property as well as its increased value and the saving which results in eliminating loss and stolen materials from your overhead, the cost is inconsequential.

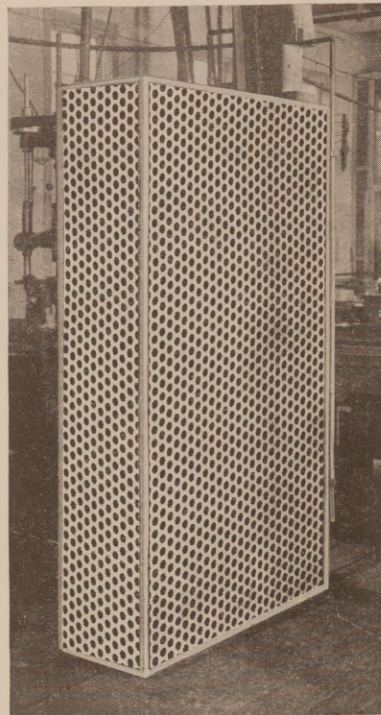
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PRODUCT IN ITS FIELD**

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Safety guards for exposed gears, belting, etc. Sanitary, durable and affords maximum protection to employees.

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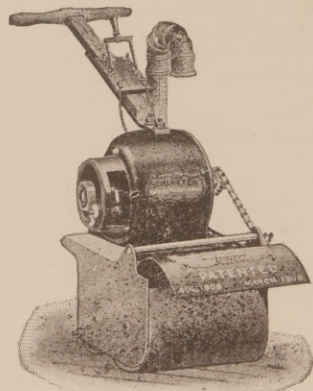
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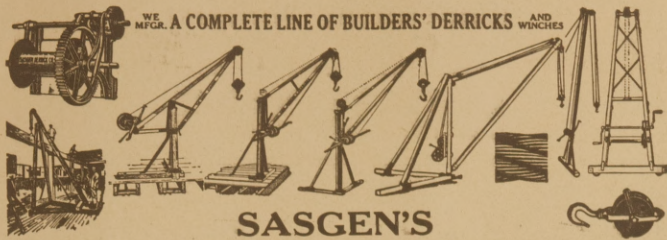
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solves the sprinkling problem for lawns and gardens. Set level with the ground—no hose. Gives a fine misty spray like rain. Uses but little water. Cannot freeze as sprayer is automatically drained.

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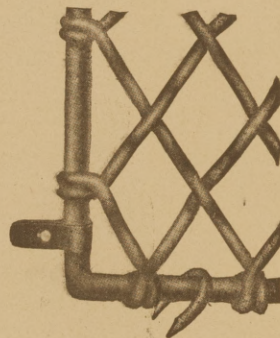
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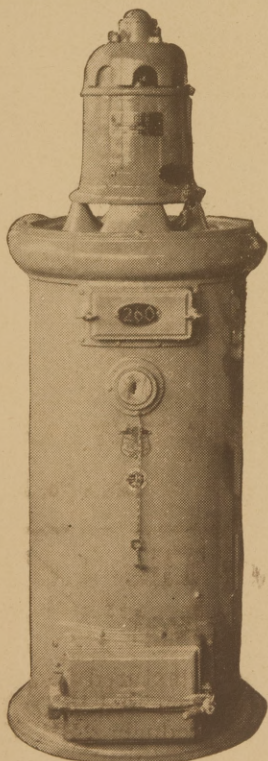
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Our Office Building is 300 ft. long by 50 ft. wide, two stories and basement, and the TUEC cleaners, which have been in operation since February last, running all night long, have certainly proven beyond question that they are not only essential for absolute cleanliness but, being designed and constructed on the "unit" plan, are simple, durable and economical in operation, and I take pleasure in recommending them.

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Do you know the right answer when your clients and customers ask you about vacuum cleaning plants? Do you know the difference between the TUEC and other suction cleaning apparatus? If not, send to-day for valuable free booklet.

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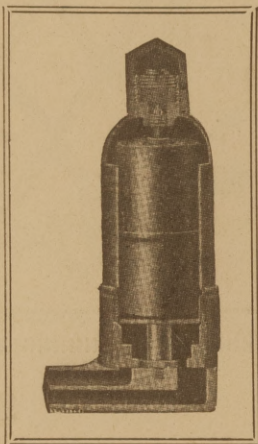
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