

Southern Architect and Building News

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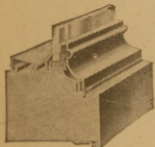
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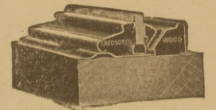
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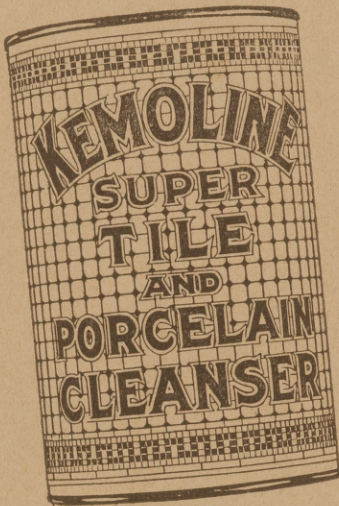
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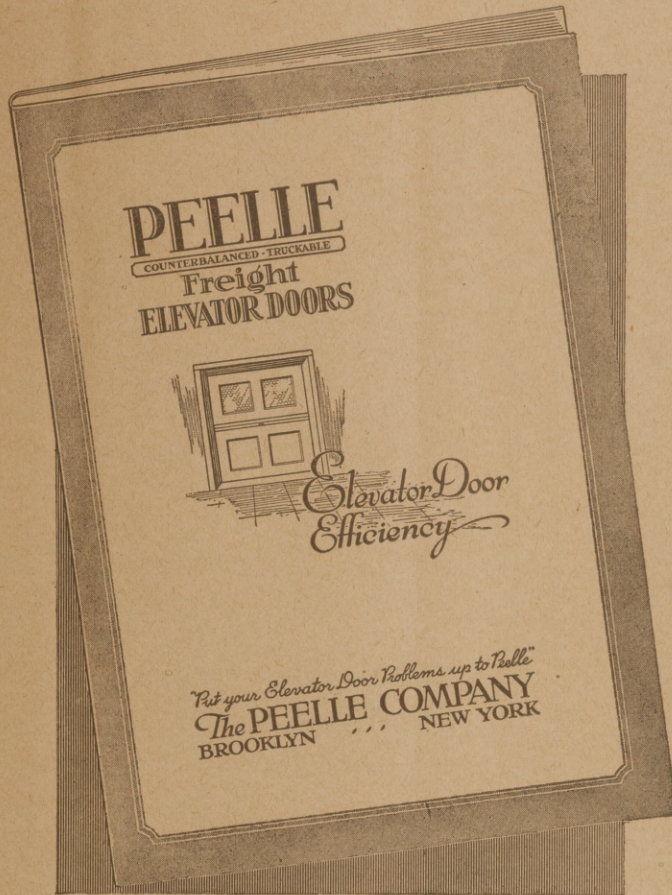
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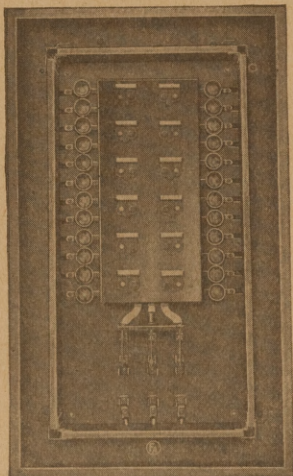
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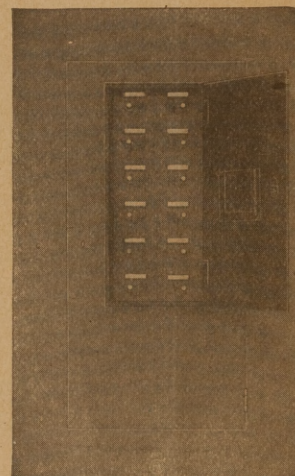
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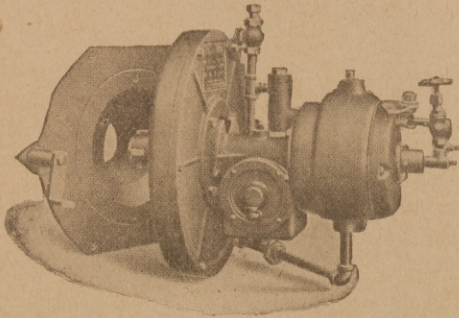
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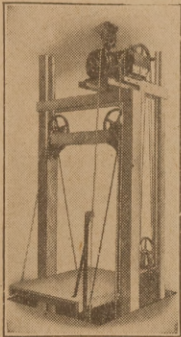
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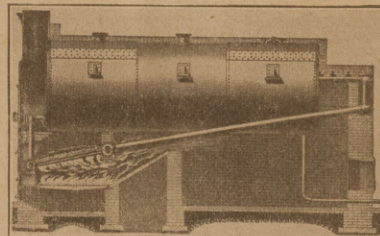
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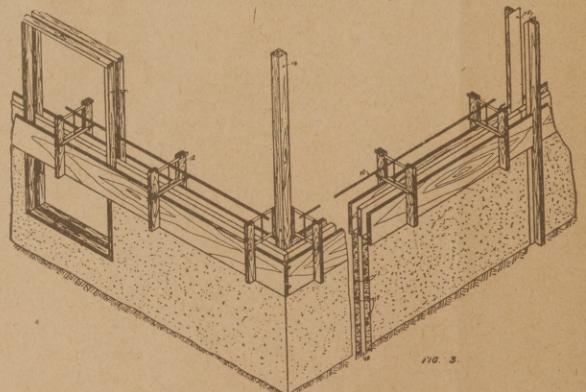
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Southern Architect and Building News

WITH WHICH IS CONSOLIDATED "SOUTHERN BUILDING RECORD"

VOL. LXVI.

DALTON, and ATLANTA, GA., FEBRUARY, 1921.

No. 4

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 publication.

We cannot be responsible for changes not made, when copy and cuts are received later, or submit proof.

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Take Time to Have a Good Time.

The architect or contractor who has no time to take a vacation, no time to secure recuperative recreation, no time to have a good time once in awhile, no time to read his trade paper to learn of what others are doing, no time to do anything but "grub along," is making a very great mistake.

He should learn that he is in business for life. If more architects and contractors would get that through their noodles the business they are in would be quite different.

It is not only for today that we are working, but for "tomorrow, and tomorrow, and tomorrow."

A builder very carefully lays the foundations for

his structure before he begins to build it, and it is right that he should, but he cannot do it so well when he is always tied down to the routine of his office.

Are You Wasting Valuable Time?

How many people seem to have nothing to do! Since we reflect on this great truth, there has come to our notice a wise saying from no less a personage than John Wanamaker. Hear what he has to say and ponder it:

"Just a few steps up the street two men were vigorously trying to fit a block of stone to its place in the wall of a new building, and on the pavement there was a crowd of twenty idle men watching the others work. Certain men are lifting and building in the public service and there are crowds looking on and criticising."

Now this statement of Mr. Wanamaker's can be duplicated in most any city, Atlanta for instance, and this is what makes it so hard for some folks to make both ends meet in a land of plenty. Don't criticise and don't waste your time in idleness.

Splitting it Fifty-Fifty.

The world is still full of false idealism. It has not enough of the fifty-fifty spirit upon which ideals must stand if they are not to tumble.

What we need is methods and not principles. Haven't we allowed ourselves to fall into a dream so strongly contrasted with the realities of life that we get hot under the collar with life itself. Isn't it time for us to say: "Give us more of the fifty-fifty spirit of doing things"?

A little less thought of men's rights. A great deal more thought of men's obligations. Green idealism makes more woe in the world than green apples. Just now the world is about doubled up with it. The essential facts of green idealism come out in an intoxicated desire to tell other people their rights, while we forget to tell ourselves our obligations.

The world has been made so drunk with moral claims that nobody is paying moral debts. Looking each other squarely in the eye, it is time to say again: "To get, give. To have, earn. Let's play fifty-fifty."

We do not believe the individuals in the world can be rearranged into a new pattern and by such hocus-pocus show much improvement or enjoy more happiness. We fear there are no short cuts in progress. The man who goes searching in history for

idealists who ever got anywhere is stumped to find any who offered a cure-all. Two, at least, did get somewhere. But were interested solely in teaching men to improve individually. They saw that this is the key to a better world—the only key. One of these was Socrates. The other was Jesus Christ.

Now is The Accepted Time.

Declaring that "Now is the accepted time to build," The Greenville, S. C., News thus discusses a most important subject:

"Representatives of the lumber industry from all sections of the nation gathered at Chicago this week to discuss the market for their products. The consensus of opinion was that the bottom had been reached in prices and that a gradual raise in prices would result just as soon as conditions were stabilized.

"This is exactly what The News has contended for some time. Lumber prices during the war and immediately following were exorbitantly high, compared with former schedules, but there has been a drop of from thirty to fifty per cent within the last six months. Today the price is probably lower than it will be six months hence. The law of supply and demand will govern from this time on. As soon as general activity in building is established, prices are bound to turn upward—not to the point reached during the war, but higher than at present.

"It appears to us, taking everything into consideration, that the man who intends to build any kind of a house within the next year would do well to be at the job right now."

Resolutions by Mason Contractors Association.

On Tuesday morning C. L. Rorick, Publisher of THE PERMANENT BUILDER, Chicago, Ill., appeared before the Convention of The Mason Contractors Association of the U. S. and Canada held at Detroit, December 6, 7, & 8, 1920, and informed the members of the proposed work of his magazine along lines of promoting more permanent construction for homes, and other buildings. It developed that throughout the country to-day the relative proportion of construction is 80% frame and 11% brick, hollow tile, and concrete.

"Mr. Rorick further advised that the death toll from our fire loss alone averages 23,000 lives per year. This indicates that in two years' time more lives will have been lost through inflammable construction than were lost in battle deaths by our country during the World War. It is the purpose of his magazine to interest architects, contractors, bricklayers, and prospective builders in fire-resistive construction, but experience is proving that the wide-spread propaganda of the alleged general inefficiency of the

bricklayers is a great obstacle. Mr. Rorick advised that it was generally reported that bricklayers in many instances were averaging only 250 bricks per day. Each city represented, in turn, informed Mr. Rorick that the production on the part of the bricklayers varied with the class of work done but in no case was the amount of brick laid as low as 250 average per day.

"At Mr. Rorick's request for an authorized statement to be given the press as to the consensus of opinion of those present regarding the general efficiency of those present regarding the general efficiency was voted upon and carried:

"WHEREAS, wide publicity has been given by the newspapers of the country to articles calling attention to the low production basis of journeyman bricklayers of the U. S. and Canada, and

"WHEREAS, such information has not been based upon facts, or knowledge, as to its truth, and

"WHEREAS, by reason of said publicity much injury has been done to the building business in general, and the mason contractors and the bricklayers in particular, and believing in the right of the public to receive the correct information

"THEREFORE BE IT RESOLVED, that the Mason Contractors Association of the United States and Canada, in Convention assembled, go on record that it is the sense of this body that the journeyman bricklayers of the United States and Canada, as a whole, except in isolated cases, are now producing an amount of work that compares favorably with that of pre-war years, and that they are co-operating with the mason contractors to the end that the public may be given more production, which makes for lower building costs and more homes"

HERE ARE TWO OTHER IMPORTANT RESOLUTIONS PASSED BY THE SAME BODY OF MEN:

"RESOLVED, that it be the sense of this Convention that each local Association forthwith take the necessary steps to have the art of bricklaying taught in public, technical or vocational schools, where such exist in the various cities."

"RESOLVED, that inasmuch as the brick and tile manufacturers are now engaged in an intensive and expensive publicity campaign, our Executive Board be instructed to confer with the officers of the Association to the end that they secure certain financial assistance in teaching bricklaying, in order to be able to supply the demand for the laying up of their product."

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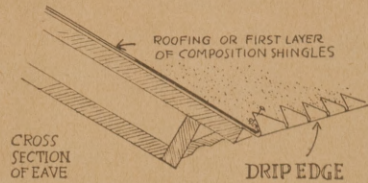
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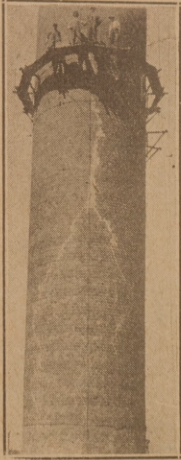
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SPECIALISTS IN REPAIRING DEFECTIVE CHIMNEYS

Inspection and Repairing While Your Plant is in Operation

Prompt repairs may save your chimney from becoming insecure and dangerous. A slight defect, a break in the binding forces of its masonry, will impair and destroy the draft, and waste fuel.

If you care to have us make an inspection of your chimney just drop us a line, and we will then inform you what an inspection will cost.

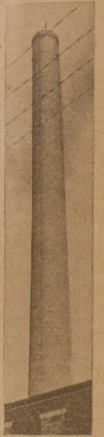
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ONWARD AIR MOISTENERS

AN ATTACHMENT FOR FURNACES,
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Properly Humidified Air, Lower Temperatures, More Water and Less Fuel in Heating Homes. Moisture is Generated from Filtered Water Direct into the Rooms.

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AUTOMATIC FURNACE WATER PAN FILLER

If Your Jobber Will Not Supply You, Write Us.

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The sanitary way to store garbage. That filthy garbage pail shows up again this Spring. We have had fifteen years experience eliminating them. Thousands of satisfied customers appreciate the change.

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A Concrete Mixer designed out of years of experience in mixing concrete. The manufacturers of this line know the requirements of the modern contractor and have built the Mixers to suit his needs. They have not endeavored to build a cheap machine. When you consider the upkeep cost, the depreciation, and the amount of material that can be handled by the machine over a term of years, the ATLAS is the lowest priced concrete mixer service you can buy.

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The LUNKEN WINDOW CO

A Double-hung Window
Having 100% Ventilation



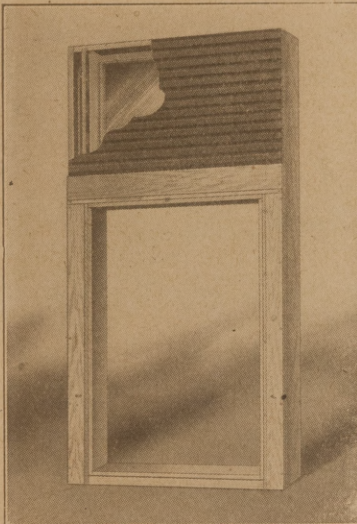
A DOUBLE-HUNG window absolutely normal in appearance and operation, yet which, by the use of a weathertight head pocket gives full opening ventilation.

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Weatherstripped against northern climates, storm and dust tight anywhere, and will not rattle.

Clean both sash both sides from standing position on floor.

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Comes on job ready to set in rough opening. Nothing to detail, superintend or worry about. Complete as is, in every particular, except inside and outside trim, which you supply to your own detail.

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A Guarantee of
Quality
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Extra Heavy Quick Opening Hot Water Radiator Valve with Union.

Let us send you our best prices.
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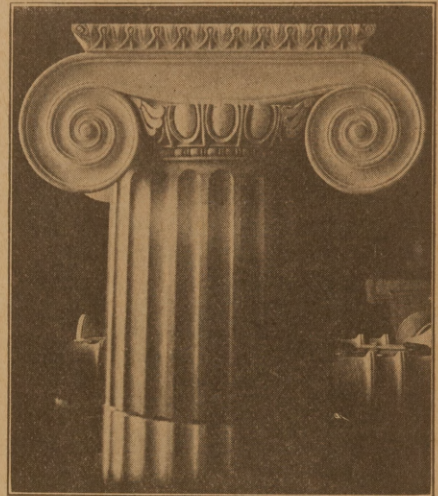
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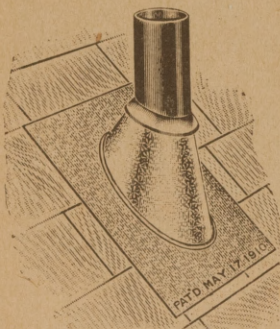
Good carving adds the finishing touch to the whole exterior of the building. Our carving department represents just one of the features of Ingalls service.

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If a better flashing is ever produced, it will still be called the "SIMPLEX."

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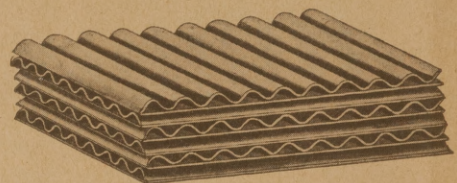
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For lining ceilings, covering boilers and other hot surfaces these blocks have proven to be very efficient. They are made of corrugated asbestos paper which leaves small spaces for confining of air.

Whenever in need of Pipe and Boiler Coverings or kindred articles, remember that there is a "Diamond N" product that is built for that particular purpose. If a job puzzles you, ask us what we have for it.

Write for prices

Norristown Magnesia & Asbestos Co.
 Norristown, Pa.

Why America is Not Rebuilding France.

American contractors do not seem to be playing a large part in rebuilding the housing facilities of France, and the editor of the *Engineering News Record*, who has been visiting in that country, gives some reasons for this in a letter to his publication.

In the first place, the French do not wish to admit that they need this sort of help. Aside from financing the new work and getting necessary raw material, they appear to be eager to do everything themselves. In addition to this, and perhaps of even stronger influence in shaping French opinion, it is clearly apparent that French traditions are incompatible with the mass-production proposed by some of the larger American contractors.

The French want to rebuild according to French ideas, having regards also for the traditions of ruined cities. Mass-production, with its inevitable sameness in thousands of structures, runs counter to these ideas and traditions. Furthermore, the French have pride in their ability to carry on construction in their own way, and construction cannot, in their judgement, be rushed. It can be taken in hand only as fast as the damages can be determined, and in the order of its economic importance. Building materials are scarce and must be distributed so that all districts and towns may make progress at about the same rate. They do not wish to hurry the permanent rebuilding of ruined cities.

Doubtless the strongest reason of all those mentioned is the desire to preserve French traditions and to carry out French ideas of architectural harmony. Even the country villages of France are picturesque and characteristic of the people who live in them. To one who knows the French character it is impossible to imagine in that country a mass of buildings substantially the same in appearance and actually the same in interior arrangement and equipment. We may not hope to introduce to the French the mass-construction in dwellings that some of our American contractors manage to impose on the people of our own land.

France may not rebuild as quickly as she would with the active aid of our rapid mass-and factory-construction, but when she has the job finished to her liking the result will not be likely to violate French traditions and to be repugnant to French taste. It appears that our best way to help the French in their rebuilding is to do what we can in the way of financing and supplying needed raw building materials and allow French taste and skill to do the actual building. We may make suggestions for what we would consider improvements and be ready to help where help of the sort we have to offer is needed, but wisdom counsels that we exercise much patience in the progress of having our suggestions accepted.—From *The Valve World*.

"Wait Awhile or Build Now?"

The country needs buildings of all kinds. Every city needs homes as never before. Yet little construction is under way. Even ready built homes find slow sale.

Why?

Ready built houses could be bought a few years ago with \$500 down. Today no speculative builder can afford to sell on such terms. So the people who need homes and want them and others who would invest in apartments, store buildings and factories are waiting. Is there really any sound reason for delay?

Supply, demand, and production costs control prices. Right now the supply of materials and labor is large, with light demand. By April or May of 1921 the demand will in all probability tax every resource of the construction industry. A large amount of construction must be done, regardless of cost, again creating a shortage of labor and materials as in the Spring of 1920. The enormous number of buildings needed means an abnormal demand for years. Isn't it the best time to build now, when material and labor are plentiful? Abundant labor meaning greater efficiency—more work for the dollar. All contractors are now anxious for work, and make better contracts than during the past year. Jobs started now will progress rapidly and soon be finished.

You cannot lose and have everything to gain by building now, especially if you guarantee your investment by building permanently with brick. Brick buildings require practically no upkeep expense and retain their value of generations. You will have the advantage of early occupancy and save money instead of enriching the landlord. Don't be too sure that your contemplated building is out of your reach until you actually find out.

"The man who sings 'Home Sweet Home' in a rented house is only kidding himself and serenading the landlord," says a popular evangelist. The phrase "My Home" implies ownership. When renting you are allowed to occupy your landlord's premises for his profit and at his convenience. Any one of a dozen reasons will set you hunting for other quarters. Although you may in time pay in rent more than the value of the house, you acquire thereby not the slightest vested interest.

Paul Clay, Staff Economist "*Forbes Magazine*:" "Another boom is on the way and is not far off."

"*The Magazine of Wall Street*": "Business men should lay their plans now for increased activity next year."

F. W. Dodge Co., publishers of "*Dodge Reports*": Contemplated work in 1920 almost four and one-half billion. Only two and one-quarter billion dollars worth actually contracted for. Defi-

ciency about two and one-quarter billion dollars.

Illinois Chapter, American Institute of Architects: "There is such a volume of projects on file in architects' offices of Chicago that if released could not possibly be built within two years. Cost of building could not be very materially reduced within the next few years and might be increased on account of limited supply of building materials and labor."—From Common Brick Manufacturers' Association of America.

Wood Using Concerns.

In its efforts to assist manufacturers in finding a market for what is generally considered mill waste products the Trade Extension department of the Southern Pine Association is furnishing its subscriber companies at frequent intervals with lists of wood-using concerns. Definite results accomplished in this campaign now are beginning to be seen, according to an announcement from that department.

New lists which will shortly be available include the following:

Cabinet makers, window blind and screen manufacturers, store front manufacturers, sign board manufacturers and manufacturers of childrens sleds,

gates, wooden boxes, fences, game and game boards, chair swings, garden settees, nail boxes, ironing and laundry tables, piano cases and shaving stands.

An Essay on Home.

There are people who have no sense of home. Where do they come from? From almost anywhere. A sense of home is, geologically speaking, a comparatively recent acquisition. Man has been a wanderer from time immemorial. In so far as he has been able to conquer climate, he has fixed his habitation, and his abiding place has softened him into a sense of tranquility; but even at this date it has not gotten into his bones. Home is an ideal.

Brooks Adams speaks of the old family place at Quincy as having been occupied by several generations of Adamses. An exception to the rule. Old mansions still remain. But few people stay in one place all their lives. To move about seems to be essential to health and ease of mind.

Yet those who have no sense of home are those incapable of having an ideal. The true home-lover may become restless; he may leave home, but generally he cannot wait to get back. To him home is something beyond the material thing it seems to be; it stands for peace; it is a true shelter for the soul, even if it is an illusion.—Life.



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Builders appreciate French

Quality First

Standard Colorings
for Interior and Ex-
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Special Architectural
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SAMUEL H. FRENCH
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Perforated Radial and Common Brick

CHIMNEYS

American Chimney Construction Co.

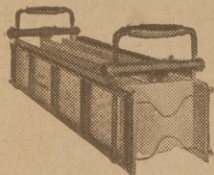
Suite 407-408 Oxford Bldg., Chicago, Illinois

All Repairs Made While Chimney Is in Use

Cleveland, Ohio, Branch: 505 Superior Building

Build the Hollow-Wall-Way with

UNIVERSAL Cement Molds



and get dry, warm, frost-proof hollow concrete walls. Best and most sanitary for all kinds of buildings.

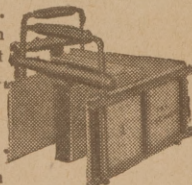
Warmest in cold weather; coolest in warm weather. Cheapest, quickest and most scientific way of building.

Send for circulars.

The Universal Cement Mold Co.

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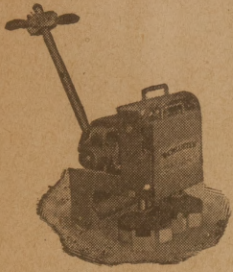


The Strongest and Most Economical in the Market. One-half the amount of our Mortar Colors will do the work of any others, and they are unsurpassed in strength, fineness and body.

Write for samples and quotations. We manufacture a superior grade of Red Oxide of Iron Paint for Railroads, Cars, Bridges, Barns, Fences, Etc.

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The IMPROVED Rapid Floor Surfacer



Several sizes. Extra 2-disc attachment can be removed making a 2-disc machine.

will surface *right up to the wall or baseboard* without the use of Edge Roller. Just the machine you would want for surfacing all kinds of floors, whether old or new. Will smooth down rapidly and easily all oints or warped edges. *Perfect results guaranteed.* More than 20,000 in use.

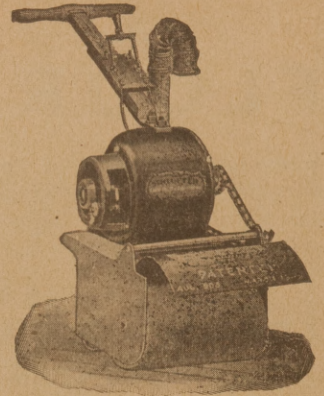
Send for our free trial offer.

M. L. SCHUETER

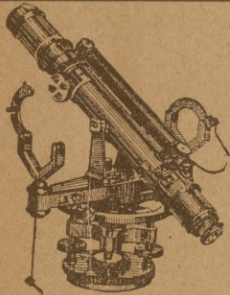
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Made in several sizes.



If you contemplate the purchase of a

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Instrument and Field Equipment for Architects, Builders and Contractors. . . .

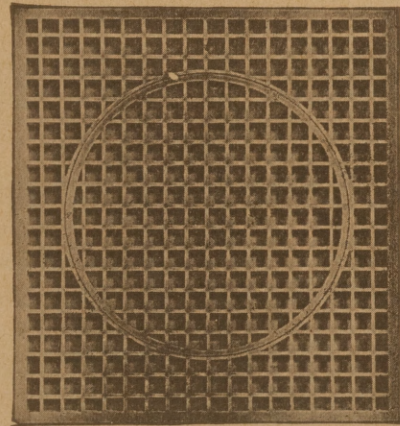
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F. Weber & Co.
Philadelphia

No. 6183 Builders Convertible Wye Level \$75.00
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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
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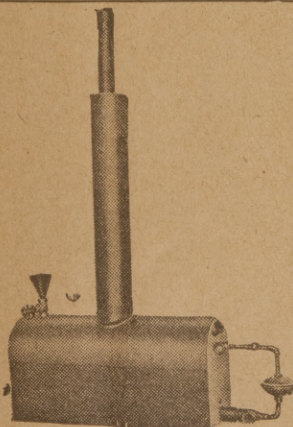
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BASIC, VIRGINIA.

Just Imagine---NO COAL, NO ASHES, NO LABOR HEATING BY HOT WATER OR STEAM THE VESUVIUS WAY

The greatest advance in house heating in more than a quarter century. A heating plant that uses gas, regulates itself and is as easy to operate as a gas stove.

Only 24 inches long by 11 inches high and 7 inches wide. More economical than coal.

VESUVIUS ENGINEERING CO., Inc.,
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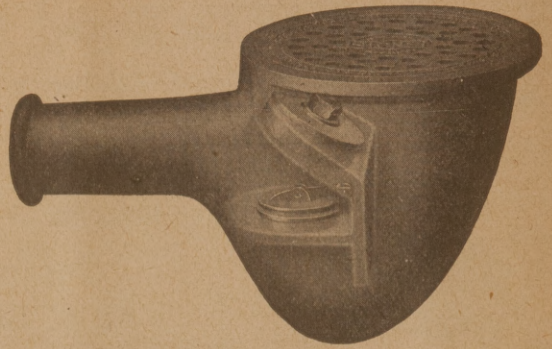


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The quality of material, the superiority of design, the absolute safety and reliability of operation, recommends the Sigret for all high-class work where permanent satisfaction is sought.

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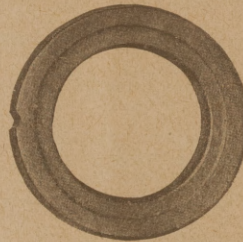
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Snow Flexible Flange Closet Gaskets.



They make water closet joints that a plumber can be sure about. They stay where he puts them, are non-porous and absolutely prevent the escape of sewer gas thru the closet joint. They adhere to all materials making sealed joints which are permanent.

MADE FOR ONE JOB, BUT MADE TO DO THAT JOB RIGHT.

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"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.

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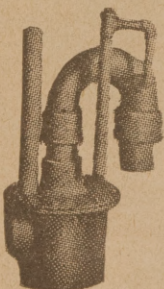
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It eliminates guesswork and saves tedious mathematical working out of such problems. Also saves waste of lumber and time.

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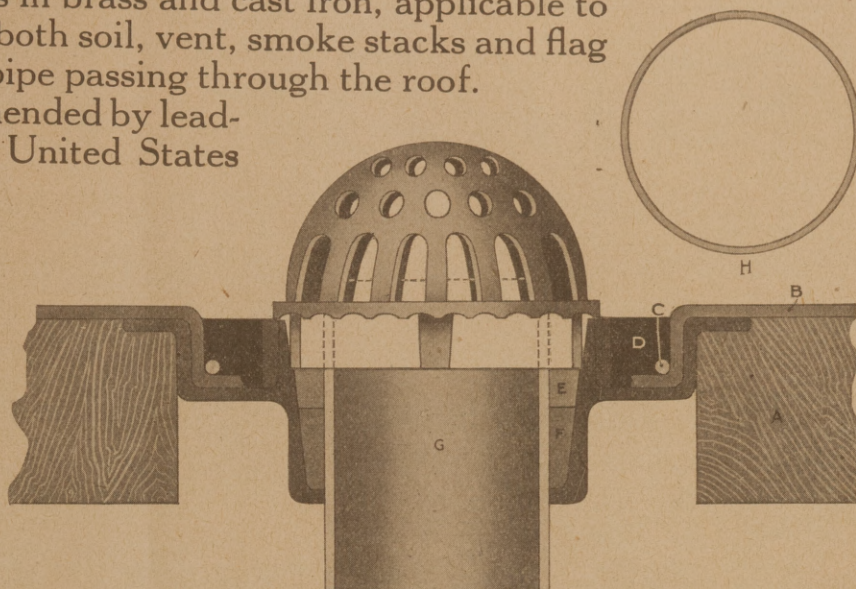
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Adopted and recommended by leading architects in the United States and Canada.

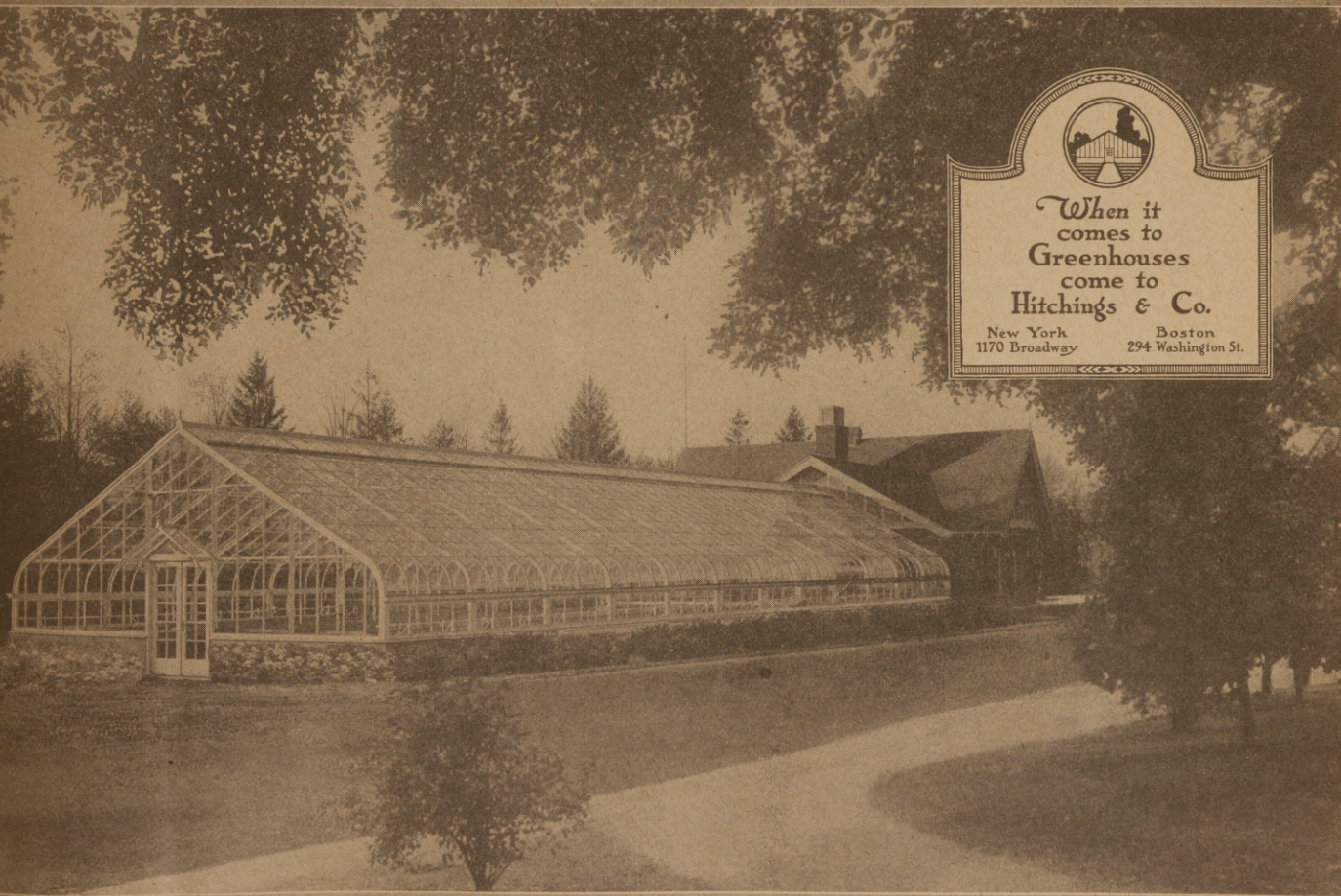
Special attention called to the expanding and bonding conditions above the roof. No complicated connections in attic or under ceilings. Attachments all made plain for operator.



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The Ideal, Safe, Sane, Serviceable, Economical Everlasting, Fireproof Roofing Material

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SLATE IS THE NATURAL ROOFING MATERIAL TO BE USED

Slate roofs embody every requisite a good roofing material demands. We have a slate roof adapted to your individual requirements, regardless of usage or color—write us for evidence.

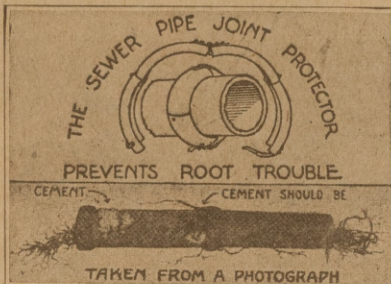
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It is flexible so as to allow edge of Protector to fit tight to any untrue pipe.

Also make special "Protector" for connections of 6-inch stone pipe to 4-inch iron pipe.

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Illustration shows one of our many beautiful designs of ornaments. Perfect execution of the smallest detail will be found in all of our mouldings, ornaments, etc. We are equipped to render prompt execution of ornamental work from drawings; specify our numbers. Let us estimate on your requirements.

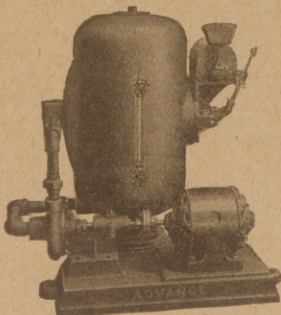
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AUTOMATIC ELECTRICAL CONDENSATION PUMP AND RECEIVER



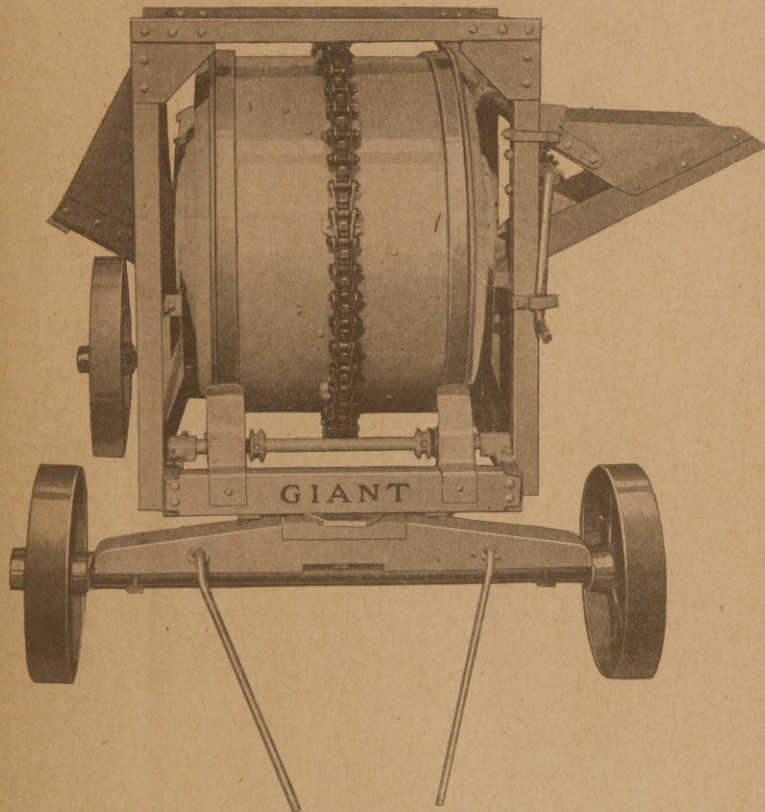
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We guarantee absolute satisfaction on return systems where our outfits are used. There is a partial vacuum produced on the return mains and receiver of these outfits. The water is automatically discharged into boiler at pressures ranging from zero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

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

GIANT MIXERS and PAVERS

Are Everything the Name Indicates.



in furnishing Roller Bearing Wheels on the truck, thus a Saving on Hauling Expense and Prolonging the Life of the Mixer.

A GIANT for PRODUCING

The Highly Developed Scientific Mixing Action is the reason these Mixers and Pavers can produce Stronger and More Uniform Concrete in less time than has been heretofore required thus saving the waste labor you are now paying for at high wages.

As the Mixers and Pavers are designed along modern lines for quantity production insuring the greatest strength and interchangeability we are in a position to sell them.

PRICED AT AN ATTRACTIVE FIGURE

That would make it worth your while to

INVESTIGATE and also SECURE PROMPT SHIPMENT

May we send you our catalog?

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Fairbanks-Morse Type "Z" Engines with Bosch High Tension Oscillating Magnetos are used exclusively to furnish the power for these Mixers and Pavers, for the reason of their long life and proven ability to furnish constant power greatly in excess of their conservative rating.

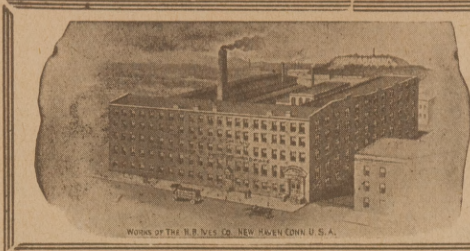
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These Mixers and Pavers are guaranteed to handle 10% more material than their rated capacity, without slopping.

Contractors using Gravel and Bank Sand take notice for we designed for this oversize capacity just for your benefit.

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The excessive abuse that Concrete Machinery is subject to has been fully compensated for by the liberal use of open-hearth steel castings in the powerful clutch and all other parts subject to excessive wear. Roller and Ball Bearings are used throughout to eliminate the wasteful friction produced by other type bearings and we are the pioneers



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Glass is a most useful servant; a utility of great est convenience when conditions are normal, but when accidents occur causing glass to break and splinters and splinters to fly through the air, human life is endangered. Many a death and many a serious wound has resulted from flying pieces of broken glass.

Serious consequences are especially to be feared from the accidental breaking, in collision or otherwise, of automobile wind-shields, back and side curtain lights; street car doors and windows, railroad passenger car windows; locomotive cab windows; port hole and other window lights on ships; die cutting, grinding, polishing, loading and other types of machine guards; office and bank partitions; revolving doors; doors and windows generally in dwellings, stores, factories, etc.

Science has come to the rescue with a laminated glass consisting of two sheets of ordinary glass between which is interposed a thin sheet of pyroxylin plastic. Hydraulic pressure and the application of the proper degree of heat welds the glass and pyroxylin sheet together into a solid unit. The pyroxylin binder prevents any scattering of fragments in the event of violent breakage.

The transparency of the glass is reduced but $2\frac{1}{2}$ to 3 per cent by the insertion of the plastic sheet. This would never be noticed by the ordinary person not especially looking for a difference.

If life and accident insurance statistics were consulted to get a record of the vast number of accidents in the aggregate resulting from broken glass,

it could readily be shown that the increased first cost of laminated glass to be used in exposed places where experience has proven accidents are most likely to happen, would be more than offset by savings in death and injury insurance payments, loss of wages due to lost time while recovering from wounds and damage to property. Then too, the suffering and disfigurement caused by cuts should be considered.

Laminated glass has its place in the world. As its virtues become known, it is undoubtedly going to be specified in many industries in which it is now unknown.

The Time to Build."

The Waycross Journal, published in the midst of a section that produced much lumber, thus advises prospective builders of its city and section.

"If you are contemplating building a house, now is the time to get busy, is the advice that is being freely given.

"Saw mill operators claim that the export business has fallen off tremendously, and as a result many of the mills will close down until the first of the year. In the mean time stocks on hand are being disposed of locally at greatly reduced prices, thus affording the home folk an opportunity to buy lumber and build to better advantage than at any time within the past several years.

"There is a big demand for houses in Waycross, and it is hoped that the greatly reduced prices in lumber will result in many new homes being built within the next few months.

"It is not only believed that lumber will be much higher after the first of the year, but will also be much more difficult to secure."

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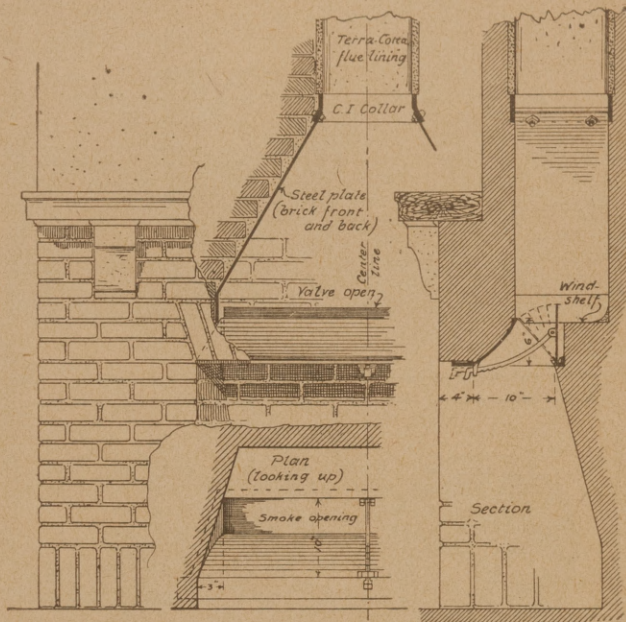
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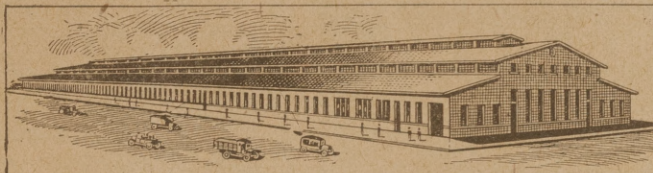
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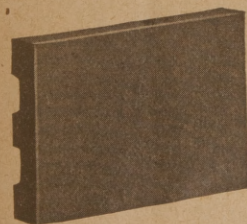
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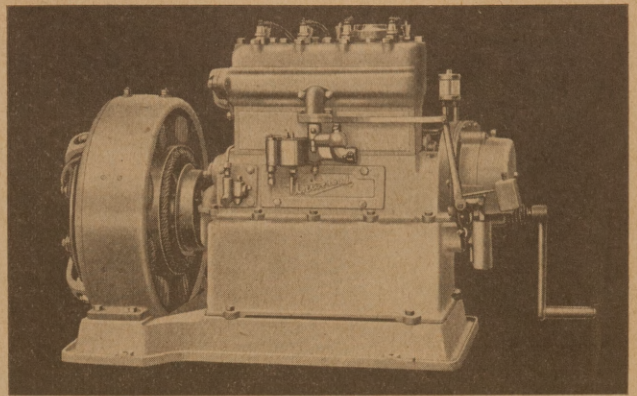


See page 389 Sweet's Catalogue for specifications of various grades

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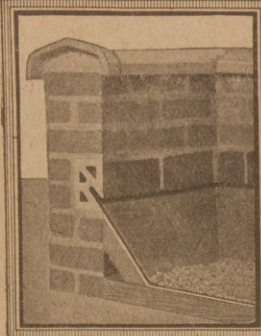
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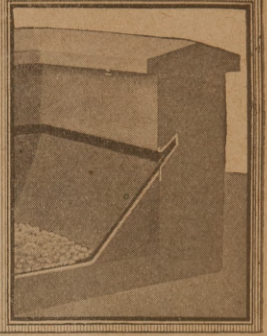
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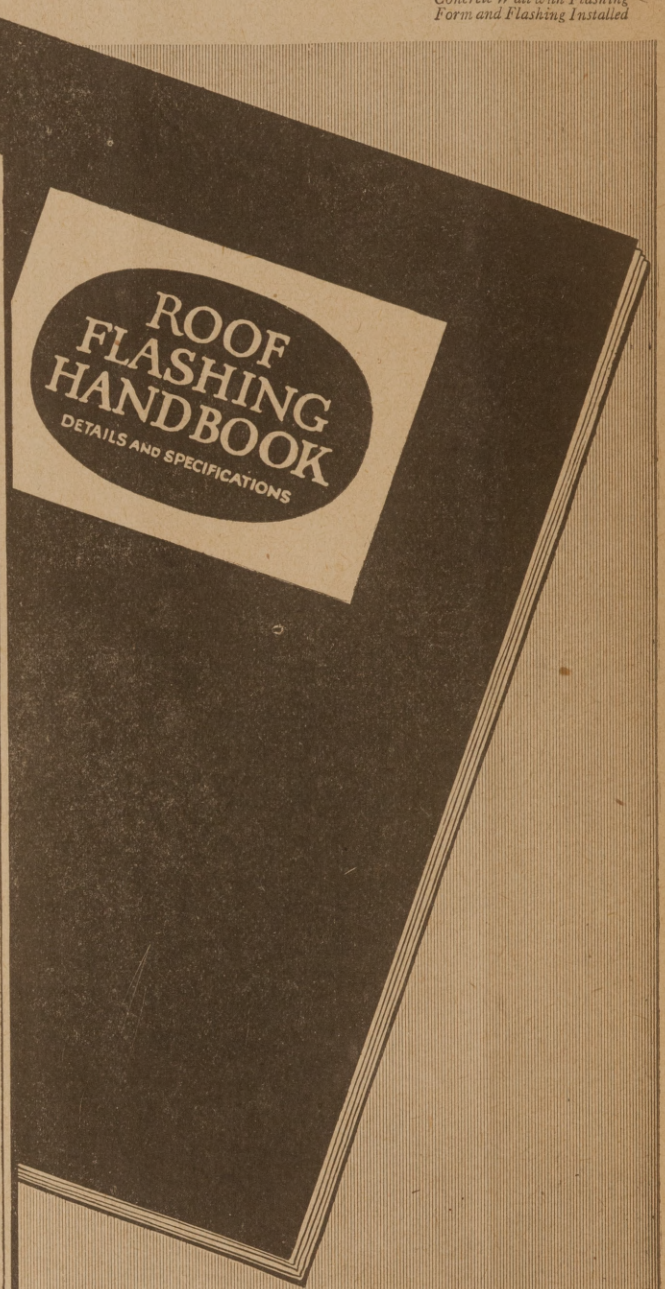
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Southern Architect and Building News

VOL. LXVI.

DALTON, and ATLANTA, GA., FEBRUARY, 1921.

No. 4

Views on Present Housing Situation

This is the second of a series of articles, on the present housing situation, which are being written for the Journal by Chas. F. Dingman, M. Soc. C. E., M. Am. Soc. M. E., engineer of the Flynt Building and Construction company of Palmer, Mass.

Just now, when the papers are full of stories of mills and factories working part time or shutting down a together, it is difficult to make people realize that the housing shortage is just as acute as it was a few months ago.

In fact, the shortage is even more acute and continues to become more so as time goes on. Right now our attention is more strongly drawn to the shortage of employment, but the shortage of employment will probably be only temporary, while it is unlikely that home construction will catch up with the shortage for years to come.

If people only realized it, and had the courage act, we should now have the most favorable opportunity to work toward relieving the house shortage that we have had for many years or that we shall have for many years to come.

The very un-employment that creates so much hardship now could be turned into a blessing. This un-employment has provided a greater supply of labor for house construction than has been available for a long time. Men are anxious to work now and will return good value for every dollar paid them in wages.

Building material prices are down; in some cases they are selling below cost, and in most instances the bottom price seems to have been reached. With over three hundred million dollars worth of public improvements voted for at the last election, we have every reason to believe that the coming season will see a decided renewal of construction activity.

This activity will, as usual, be reflected in a new upward movement of prices and, unless some very active measures are taken very soon, house construction may receive another set-back because of high material prices.

While it is my own belief that, except where individuals undertake the construction of homes for themselves, or in the very large cities, the best method of receiving the shortage is for the industries to provide homes for their employes, there are many instances where this is impracticable and other means are being tried out with fairly good results.

In communities where several industries draw upon the resident supply of labor home building corporations have been formed to provide the houses and either sell them or rent them to the occupants.

Among other cities and towns where home building corporations have operated with satisfactory results are Reading, Pa., Keene, N. H., Poughkeepsie, N. Y., Tonowanda and North Tonawanda, N. Y., Gastonia, N. C., and Richmond, Va. In each of these places I understand that the corporation was organized by the local Chamber of Commerce.

The plan in Reading was to secure twenty-five business men who would each subscribe five thousand dollars to the initial fund, and the money thus obtained was used to build twenty-five houses, each containing six rooms and a bath.

The houses were built in blocks of five and were sold at fifty-five hundred dollars for the end houses and forty-seven hundred fifty dollars for the others. This is a much lower figure than it has been possible to obtain in new England; the average cost per room of most well constructed developments has ranged from one thousand to fourteen hundred dollars per room, exclusive of land and improvements.

In New Jersey a rather extensive bungalow development has been undertaken by a speculative builder and fifty dollars per room, including land and improvements, which would equal about fourteen hundred dollars per room for the house only.

The payment plan used in selling the houses at Reading is one which should be feasible in almost every community. It only requires an initial payment of \$500, the balance being taken care of as follows:

First mortgage by Savings Bank, 60% of total	\$2,850.00
Second mortgage to Building and Loan Assoc'n,	950.00
Note to Company, to be paid off at rate of \$2 per week,	450.00
	<hr/>
	\$4,250.00

The monthly payment can then be so arranged that they cover all interest charges and a sufficient amount on the principal to retire the second mortgage in ten years or less.

The method pursued in Poughkeepsie is very similar to that at Reading except that the Pough-

keepsie company rents houses, when available, to those who do not desire to purchase.

Besides these places where housing corporations have been operating successfully there have been many other companies where corporations have been organized but have not yet commenced operations. In a great many instances the delay is due to the belief that it will be possible to build houses much more economically later on than it is at present. In more cases it has been because the cost of building houses was underestimated in the first place and sufficient financing was not arranged for.

At Pittsfield, Mass., the General Electric Company has established a Homebuilding Bureau for the purpose of encouraging employes to provide themselves with homes. The Bureau does not build or sell houses, but employes an engineer who advises the employes, aids in drawing up contracts, and inspects houses during their construction.

The engineer of the Bureau also arranges for a first mortgage loan of about 60 per cent at one of the local banks, and a second mortgage loan of about 30 per cent with the G. E. Employes' Homebuilding Trust. This makes it necessary for the employe to finance only about ten per cent of the cost of his house immediately.

I recently wrote to a great number of bank officials in all of the New England states and asked them for their ideas as to what could be done to provide the many homes that are needed right now. Bankers are naturally greatly interested in any movement that will promote the prosperity of their communities, because the prosperity of the community and of the bank are likely to be very closely related. I found that, while most bankers do not feel in a position to take the initiative in any building projects, they are willing to do their fair share of the financing of any house construction that is undertaken on a well considered, conservative plan.

Of course, during the recent past, many bankers have felt that construction costs were grossly inflated and, for that reason, have not been as liberal as they might have been in fixing the amount to be loaned on property. I think that feeling is now past and the loans are more likely to come up to the promotor's expectations.

I also wrote to the secretaries of commercial organizations in cities and towns all over the Eastern states to get an idea of what the actual demand was. Only two cities, Toledo, O., and Wilmington, Del., reported a surplus of houses.

In Wilmington the surplus was explained by the fact that the closing down of war industries has caused thousands of people to move away, and in Toledo the surplus is so small that it will probably be wiped out very soon.

Every other secretary who replied reported a very keen demand for more houses, and many re-

ported that plans are now under way to form housing corporations or to relieve the shortage in some way.

But—the total of all the projects so far reported will only go a short way in making up the minimum of 660,000 homes which must be provided in each of the next five years.

Atlanta Building Trades on Strike.

The first week of the strike by crafts in the Atlanta building trades that was called by various unions to protest against a wage reduction announced as effective January 1 by the master builders of the city, came to an end with both parties to the controversy apparently unchanged as to the issue of wage reduction.

Neither side gave out any formal statements, however, with reference to the struggle. A. O. Barge, president of the Master Builders' Association, declined to comment upon the strike further than to declare that the contractors did not wish to be quoted concerning the strike.

The union leaders also refrained from making statements further than to intimate that they are well satisfied with the progress that has been made, and announcing that a big mass meeting of the unions making up the Atlanta Building Trades' Council was held late.

At this meeting reports will be rendered by each of the various crafts as to the referendum action taken by the council calling upon building trades workmen in the city to refuse to work on any contract job, where the 1920 scale of pay and eight hours' work are not in force for all crafts.

The number of men said to be affiliated with the Building Trades' council and with the Atlanta Federation of Trades, throughout the building crafts, has been placed at 15,000, and the resolution adopted at the meeting of the council called upon a major portion of these men to refuse to work under a reduced scale of pay.

No figures could be secured from either side as to the number of men out as a result of the strike. Because of the fact that the big contract jibs are scattered in various parts of the city and because of the additional fact that a number of contractors of Atlanta have not reduced the scale, it has been impossible to make an estimate of the number of men affected.

Both sides expressed satisfaction over the situation at various times during the first week of the strike, but nothing was given out officially.

It is understood that many strikebreakers have been brought in and put to work where walkouts occurred, but this has not been officially confirmed by the master builders.

The week closed with few, if any, signs of disorder.

Market for Locks and Hinges in the Netherlands, East Indies

By Trade Commissioner John A. Fowler.

There is a good business developed for cheap cast-iron or pressed-steel rim locks with porcelain or composition handles. These locks are standard in the American market and the prices made to importers in this colony are low enough to make them a staple in the market. Japanese manufacturers have placed a lock on sale in competition, but the importers have not found it profitable to handle it, although the price is much lower than that of the American lock.

There is a comparatively large demand for cupboard locks for wardrobes up to 3 inches, with and without escutcheons. The principal demand is for iron locks, but brass or brass and iron locks are used for better class of furniture.

Chest locks are in large demand, with and without bells. The European manufacturers, following the demand, have made chest locks providing for a double turn of the key, one turn ringing the bell and the other opening the lock. These are made of iron and are of cheap construction.

American manufacturers have been interested in this trade and their goods are on the market. Importers say that there is a very good chance for them to hold a fair share of the trade.

Excellent Market for Cheaper Grades.

There is a big market for padlocks of all the cheap grades and a small demand for the better grades. One American manufacturer of the better grades of padlocks has established them firmly in the market and still another cheaper line is locally well known. There were large stocks of German and other European hardware in this colony when the World War began. German locks are again seen in the market districts. There is a wide variety selling from 0.50 guilder (guilder = \$0.402 at par of exchange) up at retail. American manufacturers of low-priced padlocks will find a steady market for their manufactures, provided they select a good agent, keep him well supplied with stock, and occasionally have a factory representative in the field.

There is but a small demand for mortise locks



One of the Few Colonial Residences at Pensacola, Fla. W. C. Frederic, Architect.

and the better grades of door locks. Bronze and brass-finished locks are not suitable to the climate as they rust quickly and lose their finish. When building operations begin again there should be a sale for a better grade of builders' hardware, and especially for locks of solid brass or bronze. Most of the furniture used in the colony is built here, and locks and hinges of all descriptions are required for desks, drawers, and lockers.

Popular Varieties of Hinges.

The greatest demand in hinges is for fast and loose pin butts of a pattern supplied by Germany before the war and now bought in Holland and Germany, although some American manufacturers have shown an interest in the trade and their manufactures are in the market. They are of a lighter metal than the corresponding hinges on the American market, and the sizes run in squares of 2½, 3½, and 4 inches. American makes of tee hinges are holding their own in the trade. Like the butts, tee hinges are of patterns and weights manufactured by the Germans before the war. They are lighter in gauge of metal and in the width of the strap than the light tee hinges which are standard on the American market and therefore have to be made specially for export.

There is a small business in strap hinges, but this is not a popular pattern. There is a small but steady demand for all sorts of chest and furniture hinges, both in steel and brass. American door hinges are not seen in the markets, but some have been imported according to specifications for some of the finer homes built at Semarang. There is a small demand for spring hinges.

American locks and hinges have gained an important place in the trade of this colony. One importer placed America's share of this trade at 80 per cent and expressed the opinion that there was an excellent opportunity to retain this percentage. This is, probably, a very optimistic estimate and American manufacturers will do well not to underestimate the competition that is coming and will come from Europe. Except for the better grades it would be better to supply what the trade demands and to make it easy for the lines to reach the trade than to carry out a vigorous sale campaign. Staple lines may be routed through the general importers. These will also be useful in introducing the better grades of padlocks, but for the better grades of builder's hardware the architects will have to be approached. It will be a distinct advantage to have full lines of samples at Soerabaya and Batavia.

Macon Building Record.

Macon, Ga., building operations for the year 1920, conducted in the face of a shortage of labor and soaring prices for material, exceeded all expectations. The total work done inside the city according to

Building Inspector F. Joe Bishop, amounted to almost a million and a half dollars. This is a quarter of million dollars' in excess of the building record for the preceding year.

But that does not include all of the building operations for which Macon should be given credit. There has been even more development in the building of homes just outside the city limits than inside the city. These people get the same advantage that Macon people get in water, electric lights, gas, and street car service.

Of course the building of new schools, especially the South Macon and the Fort Hawkins school, has helped to swell the building record for Macon during the year, but outside of that there has been a steady growth everywhere.

And the indications are that the building operations will continue during the year 1921, for there is still a demand for homes and for business sites. Local real estate men reported only yesterday that they have numbers of inquiries for homes and for business locations.

The record for building operations for the year was reached during the month of April, the total operations for that month reaching \$280,567. Following are the statistics for the twelve months of this year, and comparisons with the corresponding months of the previous year:

Building Record for 1920.

Month	Total Permits	New Bldg.	Total Cost
January	50	12	\$ 103,085
February	52	5	117,730
March	75	0	86,280
April	75	8	280,567
May	75	17	141,142
June	49	10	178,680
July	44	12	53,420
August	69	14	110,083
September	75	14	70,129
October	78	4	77,144
November	69	8	146,765
December	62	6	81,264
total	775	110	\$1,446,277

Roaches Eat Mortar; Building Falls.

A very peculiar accident happened out in Texas recently when an oil mill building collapsed killing one man and injuring others. The superintendent made a close examination after the accident and it was discovered that roaches had eaten the mortar out of the joints between the bricks under his cake storage room causing the floor to give way. The other piers were examined and it was discovered that the mortar was eaten out of the walls nearly half through.

Purposes of the Federated American Engineering Societies

IT HAS been apparent for many years that with the constant increase in number of engineering and allied technical societies, each carrying on its work independently of the others, that some form of comprehensive organization was desirable which could speak for these societies in matters of common concern.

There were frequent occasions where united action by these professions was desirable, and as a result of a serious need to meet the conditions arising from the war, the Founder Societies created Engineering Council—

“To provide for the consideration of matters of common concern to engineers as well as those of public welfare in which the profession is interested in order that united action may be possible.”

This was effected through the agency of the United Engineering Society—of which Engineering Council was made a department. In February, 1919, the American Society of Testing Materials became the fifth member and the American Railway Engineering Association was admitted as the sixth member in April, 1920.

Engineering Council held its first meeting in June, 1917. It has a chairman, two vice-chairmen, who with three other members elected by the Council constitute an Executive Committee. Its principal office is in the United Engineering Societies Building in New York City; since January 1st, 1919, it has maintained a Washington, D. C., branch. Its officers and members of its 24 committees, membership on which is not limited to representatives on the Council, total 125 engineers representing all parts of the United States.

The appointment by the four Founder Societies of Committees on Development was for the purpose of determining the functions and objects of these societies and of making recommendations as to the changes in their activities that were desirable both as to internal relations and as to their relations to other societies.

Conferees of the four Societies met in August, 1919, and organized as the Joint Conference Committee. The purpose of the latter was to determine in what manner these four Societies could co-operate in non-technical or welfare work affecting the relations of the engineer to, and his service in public affairs. The Committee presented a report to these Societies in September, 1919, and recommended the formation of a comprehensive organization, the purpose of which should be,

“to further the public welfare wherever technical knowledge and training are involved, and to consider all matters of common concern to these professions.”

This plan of procedure was approved by Engineering Council at its meeting in October, 1919; the joint meeting, held in New York in January, 1920, of the members of the governing boards of the four Founder Societies and of the American Society for Testing Materials, the members of Engineering Council, and the Trustees of the United Engineering Society, unanimously requested the Joint Conference Committee to call, without delay, a conference of representatives of the national, local, state and regional engineering organizations of this country for the purpose of bringing into existence the comprehensive organization recommended by the Joint Conference Committee.

At the Organizing Conference held in Washington, June 3-4, 1920, in response to the call issued by the Joint Conference Committee, representatives of 71 engineering and allied technical organizations created The Federated American Engineering Societies and provided for the Administration of its activities by the American Engineering Council and its Executive Board. The Constitution and By-Laws adopted were substantially those recommended by the Joint Conference Committee. At its session of June 4, the following resolution was unanimously adopted:

RESOLVED: That it is the sense of this Organizing Conference that the Joint Conference Committee should be entrusted with making provision for putting the conclusions of this conference of engineers into effect, and that Engineering Council be requested to carry on its work until the new organization has been established, and by all proper means to further the program of the new organization. The Conference further recommends to the contributing societies that they continue supplying the funds required by Engineering Council until its work is taken over by the new organization.

Engineering Council in June, 1920, on the third anniversary of its first meeting, heartily endorsed The Federated American Engineering Societies and the American Engineering Council and authorized “its Executive Committee to proffer and perform on the part of the Council such assistance as may be practicable in completing the work, of the Organizing Conference, of the Joint Conference Committee

of the Founder Societies, in establishing the American Engineering Council."

The following letter from the Chairman of Engineering Council requires no comment:

61 Broadway, New York,
July 12, 1920.

Richard L. Humphrey, Esq., Chairman,
Joint Conference Committee,
29 West 39th Street,
New York City.

Dear Sir:

Permit me to acknowledge receipt of your official communication of July 8th embodying the resolutions of your Committee regarding the position which Engineering Council is requested to take until the new American Engineering Council is fully organized.

I am sure that as Chairman I voice the opinion of Engineering Council when I state it will do everything in its power to advance the organization of the new Council, to act in the interim, and to facilitate a smooth transfer of activities from the old to the new Council.

Yours truly,

(Signed) J. Parke Channing,
Chairman.

Thus the way has been opened for the American Engineering Council to succeed Engineering Council as soon as the former is ready to take over the work Engineering Council is now doing, which will probably be on January 1, 1921.

In view of this fact it will be of interest to re-

view briefly what Engineering Council has accomplished in its three years of existence. Under the terms of the Charter granted by the State of New York to the United Engineering Society, Engineering Council has defined the field of its activities as follows:

"Council may deal with any matter of general interest for which joint action of two or more of its member societies would have been appropriate, if Council had not been established."

"Council may initiate and carry through projects of the general character defined in the By-Laws, for which the necessary financial provision has been made."

"Council may take up, and in its discretion act upon, any matter of general interest referred to it by any member society or by any other society, national, state or local, or by any branch of government, or by any individual or group of individuals."

In a circular issued in December, 1919, outlining the "Aims and Work of Engineering Council" in discussing what Council has done, the following statement is made:

"Specific items of work done are mentioned below. Some of them are more far-reaching in their effects and of greater significance than has been commonly perceived. It is only a partial enumeration: a complete, detailed statement would be tedious. Council's greatest contribution, possibly, although little known, because in-



A fine Type of the Western Bungalow.

direct and intangible, has been the development through its own discussions and those of the governing bodies of its member societies, of the problems involved in bringing together for united action the fragments of a profession so much broken by specialization as is the profession of engineering."

The working together of committees of representatives of the several Member-Societies of Engineering Council has unquestionably had a leavening influence for the betterment of the engineering profession, and Engineering Council has certainly accomplished a work of incalculable value in initiating the joint work of these societies.

It was not until seven months after its organization that funds were available for carrying on the work of Engineering Council. The Secretary states "For 1918, the appropriation for Council averaged 40 cents, and for 1919, 60 cents per individual member of the Member-Societies." With this limited support, Engineering Council has accomplished a great deal of work; among some of its principal activities may be mentioned:

1. Council furnished to Government departments 4,000 names of engineers for technical duties; aided the Navy Consulting Board and the Army General Staff in examining 135,000 suggestions and inventions for war devices, and co-operated with the Fuel Administrator and the Bureau of Mines in Conserving coal:

2. Organized Engineering Societies Employment Bureau in November, 1918, which since the Armistice has registered 5,500 engineers and assistants, mostly returned soldiers and naval men, and has aided thousands to positions without charge:

3. Helped secure exemption of engineering students from military service until the completion of technical training:

4. Established an office in Washington, D. C., January, 1919, under the general direction of the National Service Committee. Through this office engineers have been put in contact with the Federal Government as never before. Individuals, companies, and societies have been furnished information about the activities of Congress and the departments of the Government; and useful services have been rendered to the Government:

5. For the promotion of a Department of Public Works in the Federal Government, representatives of seventy-four technical societies having 105,000 members, were assembled at the invitation of Council in Chicago, April, 1919, and the Engineers', Architects' and Contractors' Conference created to support the enterprise. Engineers throughout the country have

been organized and the cooperation of the Chamber of Commerce, U. S. A., and other business organizations sought. The National Chamber of Commerce, at the request of Engineering Council, appointed a special committee to consider the advisability of submitting a referendum on this subject to all local Chambers. This Conference, finally organized as the National Public Works Department Association, drafted The Jones-Reavis bill and is advocating its passage for the establishment of a National Department of Public Works, by modification of existing departments:

6. Through a direct appeal to President Wilson, Council brought about a conference of 14 different Government offices engaged in map making, with the prospect of greatly accelerating the completion of the typographical map of the United States. It is now hoped to have the whole country mapped in a decade and a half; at the former rate, the century would have been finished before the map:

7. Has well advanced a comprehensive, carefully considered scheme for the classification of engineers, with suggestive schedules for compensations. Working in three sections, has dealt especially with engineers on the staffs of railroads, of the Federal Government, and of State and Municipal Governments, believing that a suitable scheme for these great groups would be applicable to most other groups. Preliminary reports have attracted serious attention throughout the United States and Canada and are constantly in demand. A Committee of the Council is working with the Congressional Joint Commission on Reclassification of Salaries:

8. Aided in securing increases of pay for some of the railroad technical engineers and certain municipal engineers:

9. Aided in the reinstatement of 350 engineers unfairly dismissed by the City of New York.

10. Has drafted a typical general law for registration of engineers, architects and land surveyors, the result of fourteen months' work by a committee representing all parts of the country and various important branches of the profession. This action was not in advocacy of licensing engineers, but to provide a uniform law for use under circumstances where the passage of a license law is unavoidable:

11. Requested the President to appoint engineer members of the Interstate Commerce Commission and of the International Joint Commission:

12. Assisted the State of New York in pre-

paring a scheme for reorganization of State Government:

13. Is studying the curricula of engineering schools, making suggestions as opportunity offers:

14. Sent delegates to Washington on the invitation of a committee of the House of Representatives to present testimony before the Committee in favor of a national budget:

15. Participated in organizing the National Board for Jurisdictional Awards in the Building Industry, and has a member thereon:

16. Joined with National Research Council in a report on improvement of the Patent System and practice, on which legislation has been based:

17. Has recently organized a Committee on Types of Government Contracts:

18. Has stimulated and promoted the activities of the engineering societies:

Among the matters now pending before Engineering Council are the following:

(a) Classification and Compensation of Engineers,

(b) Licensing of Engineers,

(c) Water Conservation,

(d) National Board for Jurisdictional Awards in the Building Industry,

(e) National Public Works Department,

(f) Assisting in the preparation of information for the Senate Committee on Reconstruction and Production,

(g) Public Affairs,

(h) Military Affairs,

(i) New York State Government Reorganization,

(j) International Affiliation of Engineers,

(k) Curricula of Engineering Schools,

(l) Patents,

(m) Payment for Estimating,

(n) Boston-Washington Super-Power System,

(o) Russian-American Engineering Cooperation,

(p) Types of Government Contracts.

The questions are frequently asked, "What will be the field of activity of The Federated American Engineering Societies?" and "What does the organization intend to do?" The work of this organization will be of a kaleidoscopic character, with few fixed lines of activity, its major work depending on conditions as they arise from time to time; it will take over and extend the work of Engineering Council as partially outlined above.

What it intends to do is to use its power for the service of the community, state and nation in public affairs wherever engineering experience and

technical knowledge are involved and to consider and act upon matters of common concern to the engineering and allied technical professions.

In the conduct of many public matters which are essentially of an engineering nature, it is vital to the public welfare that engineers and allied technologists should lead.

There will be an increasing number of questions arising in which the opinion of these professions will be of fundamental value to the welfare of the nation and it behooves these professions to so support The Federated American Engineering Societies, that it may so function as to supply this great public need. It is only the exceptional individual of these professions who can fail to see that in increased activities in these broader and less selfish fields the standing of the profession will be greatly improved and this of necessity must improve the position of the individual engineer.

As an illustration of how this increased standing of these professions will be brought about, attention is directed to the meeting of Engineering Council in Washington on April 29, 1920, when it visited the Capitol and called on Speaker Gillette of the House of Representatives and later upon Vice-President Marshall of the Senate. The Chairman proffered the services of Engineering Council to the houses of Congress on matters upon which engineering advice of a disinterested character might be helpful. Vice-President Marshall stated that this unusual and generous offer would be referred in writing to the Drafting Bureau, a new Bureau of the Senate which has charge of the preparation of legislation.

It is the duty of the engineer to take up public service work. It is incumbent upon him as a citizen to "do his bit," and there is the added responsibility due to his special knowledge and experience which is primarily of importance in the execution of public work.

The Federated American Engineering Societies will speak for a group of citizens who by reason of special training and knowledge represent a high order of intelligence, and who individually and collectively would be derelict in their responsibility for the talents they possess if they did not apply them unselfishly for the common weal.

In unity of action there will of necessity be strength and power.

Wants Architectural Designer.

The United States Civil Service Commission announces an open competitive examination for architectural designer. Two vacancies in the Philippine Service, each at \$4,000 a year, and vacancies in positions requiring similar qualifications, at this or higher or lower salaries, will be filled from this exam-

ination, unless it is found in the interest of the service to fill any vacancy by reinstatement, transfer, or promotion.

Travel.—Employees in these positions will be allowed necessary expenses when absent from headquarters in the discharge of official duties.

On account of the needs of the service papers will be rated as received and certification made as the needs of the service require. In the absence of further notice applications for this examination will be received by the Commission at Washington, D. C. until the hour of closing business on June 1, 1921. If sufficient eligibles are obtained the receipt of applications may be closed before that date, of which due notice will be given.

Subjects and weights.—Competitors will not be required to report for examination at any place, but will be rated on the following subjects, which will have the relative weights indicated:

Subjects.	Weights.
1. General and technical education and preliminary or apprenticeship experience	70
2. Responsible experience and fitness...	70
	—
Total	100

Basis of ratings.—Competitors will be rated upon the sworn statements in their applications and upon corroborative evidence.

Requirements for eligibility.—Applicants must have graduated in architecture from a technical school or college of recognized standing, and have had at least one year's subsequent experience in architectural design. An additional eighteen months of architectural experience will be accepted as equivalent to each year lacking of the college course.

Character.—It must be shown in connection with his application that each applicant is a person of good moral character and temperate habits, active, intelligent, and discreet.

Statements of qualifications.—Great care should be taken to make the statements in the application form complete and correct in all details. Applicants should state fully all experience having any bearing on their qualifications for the position, although part of it may be of a character not herein mentioned.

Each applicant, in answer to question 20 of Form B. I. A. 2 (of November, 1916), relating to experience, must give additional information, as follows:

Question 20 (f). Give the names and addresses of five or more persons who have knowledge of your special experience and fitness for the position for which you have applied. It is essential that these names should be of persons under whom or by whom you were employed or of persons whose work is of an administrative or executive character.

Age and physical condition.—Applicants must have reached their twenty-fifth but not their fortieth birthday on the date of the examination and must be physically qualified for performing the duties required in this position.

Medicial certificate.—The medical certificate on Form B. I. A. 2 should be executed by some medical officer of the United States.

Photographs.—Applicants must submit with their applications their unmounted photographs, taken within two years, with their names written thereon. Proofs or group photographs will not be accepted. Photographs will not be returned to applicants.

Condition of employment.—Special attention is invited to the favorable conditions in respect to transportation, leave of absence, clothing, etc., in this service, and information in regard to the execution of the medical certificate, printed hereon.

Citizenship.—This examination is open to all citizens of the United States who meet the requirements.

Applications.—Applicants should at once apply for Form B. I. A. 2, stating the title of the examination desired, to the Civil Service Commission, Washington, D. C.; the Secretary of the United States Civil Service Board, Customhouse, Boston, Mass., New Orleans, La., Honolulu, Hawaii; Post Office, Philadelphia, Pa., Atlanta, Ga., Cincinnati, Ohio, Chicago, Ill., St. Paul Minn., Seattle, Wash., San Francisco, Cal.; Old Customhouse, St. Louis, Mo.; Administration Building, Balboa Heights, Canal Zone; or to the Chairman of the Porto Rican Civil Service Commission, San Juan, P. R. Applications should be properly executed, including the medical certificate, and filed with the Civil Service Commission, Washington, D. C., without delay.

The exact title of the examination, as given at the head of this announcement, should be stated in the application form.

Preference.—Applicants entitled to preference should attach to their applications their original discharge, or a photostat or certified copy thereof, or their official record of service, which will be returned after inspection by the Commission.

Home and Thrift Hits Cities.

National Thrift Week committee with cooperation of the savings division of the United States treasury department and many other organizations sponsored "Own Your Home" expositions in many large cities throughout the country in January in aiding to solve the housing problem.

The American Institute of Architects having already approved a national competition with prizes totaling \$15,000 for best plans of small economically practical houses and bungalows, and men of small means, also foreign-born have been urged to build and own their homes as a practical Americanization feature of the program.

New York and Chicago will conduct "Own Your

Home" expositions later on a large scale. The Chicago exposition will be held March 26 to April 2, that in New York April 16 to 30.

Building Material From Okra Stalks.

The manufacture of building materials from okra and from sugar cane bagasse is being undertaken in the vicinity of New Orleans. It is announced that the methods have proved successful, with a result that large plants are being erected for manufacturing the various products.

The National Pulp, Paper and Cordage Co. is erecting a big factory at Marrero, Jefferson Parish, a suburb of this city, for the manufacture of fibre board, which has been found suitable for building purposes. Plans are being discussed for production of okra on an extensive scale to supply the necessary raw material to the factory. In addition, the cultivation of okra on nearby farms will be encouraged. It is planned to sell the "pods" or fruit of the okra to the canning factories in the vicinity, and the stalk will be used in manufacture of the board. Thus, the revenue received from sale of the fruit will pay a large part of the cost of producing the okra.

Plans have practically been completed for the erection of a plant near here by Dahlberg & Company, Inc. of Wilmington, Del., for the manufacture of a building board from sugar cane bagasse. Over 40 acres of land have already been purchased on the river front on the west side of the Mississippi in Jefferson Parish, opposite the public grain elevator at New Orleans, and work will be commenced shortly on the first unit, which will cost about \$40,000, and other units will be added as speedily as possible.

Bagasse is the refuse of the sugar-cane stalk after the juice has been pressed out, and it is used principally as an auxiliary fuel in the sugar-plant boiler-houses. The heat content is said to be very low, however, and more will be realized from the sale for making board materials. It will be ground and then given a light cooking and sent through the machines that press it into the desired thickness and shape. It is said that 12,000 tons of material will be used annually and that 26,000,000 square feet of board will be produced from it. The boards will be from 36 to 48 inches wide and from 9 to 12 feet long.

It is said that this board can be used for exterior as well as interior work, and will take stucco or plaster direct if desired.

B. G. Dahlberg of Minneapolis will head the company. Others interested are announced as follows: James W. Black, president of the James Black Masonry & Contracting Co. of St. Louis; J. W. Thompson, railroad contractor of St. Louis and New Orleans; B. K. Edwards, president of Edwards &

Bradford Lumber Co. of Chicago; I. T. Cook, president of Joplin-Frisco Building Co. of St. Louis; E. T. Guth, president of the St. Louis Brass Co. and director of the Jefferson Bank of St. Louis; S. E. McPartlin, president of the Union Insulating Co. of Chicago; H. J. Burt, general manager of Holabird & Roche, architects of Chicago, and formerly acting chief engineer of construction, U. S. War Department; E. M. Roberts, president of the Star-Chronicle Publishing Co.; and W. R. Edwards, vice-president of Edwards & Bradford Lumber Co. of Chicago.

James Black, head of the James Black Masonry and Contracting Co. of St. Louis, is in charge of the construction of the plant. T. B. Monroe, son of the inventor of the process and prominently identified with the technical part of the business, has been in New Orleans and Louisiana some weeks, lining up sources of raw material.

Lumber Production and Shipments in 1920.

For the greater part of 1920 the sawmills in the several large producing regions cut slightly more lumber than was shipped. Shipments exceeded the former part of a period of unprecedented demand in the lumber industry due to a combination of depleted stocks, a stringent car shortage, and great activity in building and manufacturing. Demand lightened in April, and from then on until the last week of the year the output of the mills each week was greater than the quantity of lumber shipped. In June the excess reached a peak of 40 per cent; the weekly average, however, was not great and the year closed with the mills having stocks of practically normal proportions.

Unfilled orders as an item of importance to the manufacturer of lumber began to increase in volume at the opening of 1920, only to decline in the two following months. In April unfilled orders were again added to; in May and June shipments were such as to slightly reduce unfilled orders. In July and August the order files were enlarged, but from then on, with the exception of one or two weeks, shipments kept pace with or exceeded new business booked up until the close of the year.

Production of lumber during the year exceeded shipments by more than 10 per cent.

Jacksonville Architects Educate Public

The architects of Jacksonville, Fla. have formed an association for the advancement of architectural practice. That the scope and demands of their work and the duties and obligation to the building public exacted by their profession may be better known, they have arranged with the Florida Times-Union for the publication of a series of brief, pointed talks or statements—the first of which will be found in this issue—the others to follow from week to week.

While not known at all, an architect practicing in this state must hold a certificate of registration, or license, granted by the State Board of Architects, a body created by law and appointed by the governor. Before he may legally practice as an architect or hold himself out to be an architect, he must produce evidence of competency as provided by law, either by examination or past performance.

Thus architects stand in law on parity with the, perhaps, better known professional groups, such as lawyers, physicians and dentists.

Anyone practicing without a certificate is subject to certain penalties, while certificates of legally practicing architects may be revoked for incompetency, professional dishonesty and other causes.

It is hoped by the architects that the information imparted in the series of talks will be of interest and value to the public in general and to those who build, whether it be a simple cottage or imposing public edifice or skyscraper.

Need Roofing Material in Dutch East Indies.

Trade Commissioner Fowler thinks that manufacturers of composition roofing of standard quality should find a ready market in the islands, because the cheap tiling generally used often cracks with a sudden change in temperature, and an adequate supply of better grate tiling is not obtainable and is also very expensive. Dutch engineers will be particularly interested in the life of the roofing under actual wear, its "insulation" qualities, the cost of the underroof or the quantity of lumber required, the method of attaching the underroof to steel-framed buildings, and the feasibility of using woven bamboo laid on slats for underroofing.

Fire Stopping in Ordinary Construction.

In buildings of Ordinary Construction, that is, those having masonry walls with floors and partitions of wooden joist and stud construction, at each floor level in all stud walls, partitions, furrings and space between joists where they rest on division walls or partitions there should be fire stopping completely cutting off communication by fire through concealed space by preventing both vertical and horizontal drafts.

Where walls in this type of construction are furred with wood the masonry between the ends of wooden beams should project the thickness of the furring beyond the inner face of the wall for the full depth of the beams; or a double course of masonry above and below the beams should project the full thickness of the furring beyond the face of the wall, says the Architectural and Building Code Service of the National Lumber Manufacturers Association.

In case where floor beams are parallel to the wall furred with wood, there should be a space not

less than 2½ inches between such a wall and the nearest beam. This space should be filled in solid with brick work, or concrete, for the full depth of the floor beams.

Where a partition rests directly on a wooden girder in a basement or cellar, a 7/8-inch board should be nailed to both outer faces of the studs for the entire length of the partition and the space between the studs to 4 inches above the top of the floor joists filled with incombustible material. If compressible incombustible material is not used as a filling a 2 x 4 piece should be wedged in between the studs horizontally.

Where walls are studded off, the space between the inside face of the wall and the studding at the floor level should be fire-stopped with brick work or other approved fireproof material. The under side of such beams should be protected by covering of metal lath, or plaster board, and plastered to a total thickness of ¾ inch.

When sliding doors are pocketed in partitions care should be exercised to see that such pockets be completely fire-proof at top and bottom.

The space between stair carriages should be fire-stopped at least once in the middle portion of each turn, and should be fire-stopped by a header beam at both top and bottom.

In setting beams or joists near chimneys they should be placed no nearer than 2 inches to the outside face of a chimney or flue whether the same be for smoke, air or any other purpose. No wood-work should be set any nearer than 4 inches to the back wall of any fire place.

All spaces between a chimney and wooden beams should be solidly filled with refuse mortar, loose cinder or other incombustible material.

Header beams carrying tail beams of a floor, and supporting trimmer arches in front of fire places be not less than 20 inches from the chimney breast and no wooden furring or studding should be placed against any chimney but the plaster applied directly on the masonry or on metal lathing.

Ordinary Construction is the type commonly used in the construction of three story and basement apartment houses to a height of 55 feet and since these buildings are usually well crowded with human beings and their worldly effects, the possible danger from loss of life and property by improper construction is obvious.

Precautions taken to fire-stop properly every type of building to be occupied as a dwelling or abode of human beings is not only good fire insurance but good life insurance as well.

Builders Supplies.

Jacksonville, Fla.—Florida Paint & Cement Co. has been incorporated with capital stock of \$20,000. President, H. A. Wheeler and Secretary-treasurer, K. R. Paderick.

Bowling Green's Stone Industry

THROUGHTOUT the United States, wherever architecture is massive and enduring, builders have used stone construction. So much of this stone comes from Bowling Green that a Kentuckian can stoy in practically any city of the nation and find edifices made of rock removed from Warren County quarries, writes Perrin S. Turpin in Louisville Courier-Journal.

Limestone is found abundantly in this county, and is said by geologists to lay in what they term "workable layers," averaging fifteen feet each; top layer nearly white, middle layer dark yellowish grey and bottom bed considerably darker, sometimes nearly black, all of which bleaches on exposure by atmospheric conditions to a light soft gray, afterward to a white.

This stone is recognized by Government architects to be the finest building stone in the world and has been recommended in future Government buildings where stone is used.

Bowling Green stone may be found in principal cities from Florida to New York. Among the handsomest and most costly buildings constructed of Bowling Green stone is St. Thomas Church, Fifth Avenue, New York; Hall of Records, Brooklyn; Church of Our Lady of Victory, Philadelphia; magnificent Lothrop residence in Washington; residence of Senator Joseph W. Bailey, Washington; Governor's mansion, Frankfort, Ky.; First Christian Church, Louisville; Chamber of Commerce, Atlanta; Carnegie Library, Nashville, Tenn.; Polytechnic Institute, Auburn, Ala.; First Presbyterian Church, Gulfport, Miss.; Lexington and Paduch, Ky.; Hotel Halcyon, Miami, Fla.; Union Depot and Government building, Nashville, Tenn.; Citizens National Bank, First Baptist Church, Westminster Church and Western Kentucky State Normal School, Bowling Green.

One of the main features of Bowling Green stone is that it is not necessary to "coat" the back of it with any water proof material, as it does not absorb moisture. The Citizens National Bank, a cut of which appears in this article, saved quite a sum by eliminating this item from their original specifications, as they realized it was not necessary in case of adoption of Bowling Green stone. Buildings that were constructed fifty years ago in this city show no signs of deterioration, but to the contrary are in as perfect physical condition as the day the stone was placed there.

The men that have put Bowling Green on the map in the stone business are Pickles Brothers, who conduct and own the biggest quarry and redressing plant in the field here. They had the "nerve," the

judgement and staying qualities to make them the success that they are. Their company controls the entire stone industry in this country, having absorbed rival concerns. Stone handled by this company is used not only for building purposes, but monumental work and fertilizer, and the demand is greater than the output.

There are no building stone in this country which have been subjected to more severe tests as to durability and resistance to the disintegrating influences of atmospheric and climatic changes than has the Bowling Green white oolitic stone. More than a century ago stone was taken from the Bowling Green quarries and used in a primitive way for hearthstones and chimney caps, and these may be found today in parts of Warren County, perfectly intact and absolutely free from any evidences of disintegration. There are some buildings in the city of Bowling Green which were erected more than eighty years ago of this stone, which stands today with tool-marks upon them as delicate and clear as when just from the chisel.

The superiority or the quality of Bowling Green building stone has long been recognized by those who have used it in structural work. A. Wenderoth, supervising architect of the treasury, pronounced it the best building stone he had ever seen.

Bowling Green white oolitic stone was awarded a gold medal at the World's Columbian Exposition in 1893, and it also received the highest award at the Louisiana Purchase Exposition in 1904.

John B. Longworth, who superintended the construction of the three-story Government building in Bowling Green and a man of wide experience in construction work, has the following to say of Bowling Green building stone:

"The fact that Bowling Green oolitic limestone is not extensively quarried accounts for its being less understood by contractors and superintendents than the Bedford and other well-known building stones.

"As a matter of fact, it is far superior to the Bedford stone. This is not merely the writer's opinion, but that of one of Bedford's largest quarry owners, who told me—in a confidential whisper—that, 'Bowling Green stone has got us skinned a mile.' Lack of capital and transportation facilities account to a great extent for its limited output. However, as more quarries are gradually being opened up, it is hoped these difficulties will be cleared.

An Irish political candidate who felt sure that a certain elector was against him was surprised to have that elector call and announce that he would

support him to the limit.

"Whin the other day ye called at my place and stood by the pigsty and talked fer half an hour, ye didn't budge me an inch," said the visitor. "But after ye'd gone away, I got to thinkin' how ye reached yer hand over the rail and scratched the pig's back till he lay down wid pleasure of it, I made up my mind that whin a man was so sociable as that wid a poor fellow crathur, I wasn't the boy to vote agin him."

Construction Work Far Behind.

Building construction in the United States is estimated to be behind from 18 to 24 months in volume. This is particularly true of houses, apartments, and tenements-structures used for actual housing purposes. The following tabulation shows for each of the last ten years (1911-1920) the estimated total cost of building, average cost per square foot, and number of square feet built.

Year	Total Cost	Average cost per sq. foot.	Square feet built
1920	\$2,466,162,000	\$6.37	387,434,700
1919	1,467,821,300	3.20	458,600,000
1918	492,163,900	2.65	185,700,000
1917	816,941,000	2.27	358,500,000
1916	1,137,160,900	1.82	624,800,000
1915	931,937,300	1.52	613,100,000
1914	891,845,500	1.55	575,400,000
1913	980,971,600	1.61	609,300,000
1912	1,027,515,200	1.63	630,400,000
1911	962,499,700	1.59	605,300,000

For the five year period, 1911-1915, the annual average construction was in excess of 600,000,000 square feet. For the succeeding five year period, 1916-1920, the annual average construction was but 400,000,000 square feet. Total construction for the last five years is one billion square feet less than for the five years of the pre-war period. In other words, building is just that much short of what should have been done in order to care for normal needs and without allowance being made for increased building requirements created by increased population.

To take up this slack and meet necessary construction requirements, 2 billion square feet should be built in 1921 and 1922.

New Partnership Formed.

Announcement has been made of the organization of a new architectural and engineering enterprise, G. Lloyd Preacher & Company, which will have headquarters in Atlanta, with branch offices in various southeastern states.

G. Lloyd Preacher, head of the concern, is one of Atlanta's best known architects, having designed several large structures for business and residential

purposes. For some time he has maintained offices in Atlanta and Augusta.

Associated with him in his new enterprise are George Harwell Bond, manager of the main office in Atlanta; J. F. Wilhoit, chief draftsman, and Nicholas Mitchell, formerly with one of New York's most prominent architectural concerns.

Architectural Association Elects Officers.

The North Carolina Architectural Association held its annual session at Raleigh the middle of January with about 30 members in attendance. Officers elected for the next year are: Harry Barton of Greensboro, president; J. B. Lynch of Wilmington, vice-president; M. E. Boyer of Winston-Salem, secretary and treasurer.

Dark Marks on Plaster.

Every observant person has noticed that a plastered wall or ceiling after a time will present the same appearance all over, but the surface will be broken into streaks and patches of lighter and darker hue. This matter has been studied by an investigator, who is still a demand for hames and for business sites. deposited over portions of the plaster where water condenses as a result of the cooling. In other cases the checking of air currents by moldings or other obstructions lessen the air's carrying capacity and thus causes the deposition of dust. Quite commonly the spaces between the lath on the walls have a darker color than the space over the laths. This is because the heat and vapors to some extent pass through the plaster between the laths, thus carrying the dust with them.

Calder Urges Trade Schools.

That one of the most important problems facing the nation today in so far as the housing situation is concerned is the securing of competent skilled workers in the building trade and urging that trade schools be established for this purpose was urged by Senator William M. Calder, of New York, chairman of the Senate Special Committee on Reconstruction and Production in a letter to the Governor of every State in the Union. Senator Calder recently completed a survey of the building situation in all the principal cities of the country as far west as Denver, and this factor was dwelt upon in answer to questionnaires issued as to remedies for the lack of housing now prevalent in the United States.

Senator Calder pointed out in his communication to the Governors that native Americans have in the past been less desirous of becoming skilled workers in the building trades than aliens or naturalized citizens and he stresses the point that the former should be encouraged through the medium of trade schools to enter this industry.

Views of Dallas, Tex. Business Section



Southwestern Life Insurance Building at Dallas.

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View of Commerce Street in Dallas Looking East.



Showing Store of Butler Brothers in Dallas.



The Wilson Building at Dallas.



The Dallas Public Library.

LUMBER DEPARTMENT

Southern Architect and Building News

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Our specialty is manufacturing millwork to fit any architect's requirements in any wood desired. Veneered doors and all other items of millwork manufactured in our own plant. A full mechanical equipment and experienced organization enables us to guarantee prompt service and accurate workmanship and material of good quality. Send us plans for estimate.

Enochs Lumber & Manufacturing Co.

JACKSON, MISS.

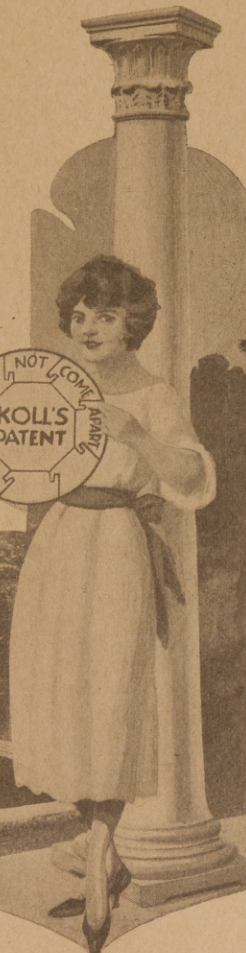
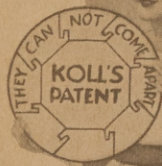
There Is Good Reason

why so many front rank architects specify exclusively Koll's Patent Lock-Joint Wood Columns because they are not only attractive but are architecturally correct and mechanically perfect.

We manufacture exterior columns from 4 to 54 inches in diameter, including hardwood staved and veneered columns for interior use.

For catalogue on exterior or interior columns enclose 15c and ask for catalogue "S-47." If interested in Pergolas and Garden Accessories send 10c and ask for catalogue "S-33."

HARTMANN-SANDERS CO.
2155-87 Elston Ave., CHICAGO
Eastern Office and Show Rooms
6 E. 39th St.
NEW YORK CITY



The Handwriting on the Floor

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

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

Let us send you a beautiful booklet illustrating and describing our flooring, borders, parquetry, wood carpets, etc.

The Egelsfield-Stewart Co.

"The Sudden Shippers."
Indianapolis, Ind.



Lumber Prices Falling.

Price trend in the wholesale lumber market is still downward, despite increase in orders from retail yards. The North Carolina pine market shows a decline of 35 per cent in volume of orders. Hardwood is bought only for pressing needs. The Southern Lumberman says:

"A slight increase in the volume of Southern pine orders last week did not materially change the aspect of the situation in this market or produce a more hopeful feeling among the manufacturers. The price trend is still downward. The weak demand and unsatisfactory prices are causing a progressive decline in production due to the curtailment or suspension of mills that cannot be operated profitably in the face of existing conditions. Retailers are placing a few orders, and though they realize the advantages offered by current prices, the dull state of their own business and credit restrictions prohibit extensive buying.

"A decline of 35 per cent in the volume of orders was the week's feature of the North Carolina pine market. This falling off in sales came as a decided blow to the manufacturers, who had hoped that the market, because of its proximity to important consuming centers, would at least maintain the levels reached during the closing days of September.

"Business in hardwood circles has resolved itself into buying only for the most pressing needs of the present, while consumers, insofar as is possible, remain off the market, and watch the trend of prices. The dull state of affairs is increasing the number of those manufacturers who have made drastic curtailments in production or else closed down altogether, while production, as a result, is inordinately light.

"Demand for cypress has undergone a contraction similar to that of other woods, but, fortunately, this market is to a certain extent free from the price conditions that prevail in other cities. The weak demand has recently caused a slight curtailment of production."

Summary of Lumber Market Situation.

The movement of softwood lumber during the last week of 1920 was the smallest of the entire year and in sharp contrast consumer was being catered to. More than 50 per cent of the normal lumber production has been shut down, for repairs, and inventorying, or because of the almost total absence of demand for their product. It is expected many mills will remain closed until more encouraging conditions appear that will permit running without accumulating large stocks and also assure a relation price above operating cost.

Buying of both softwood and hardwood is light. Retailers are not in the market for lumber because of the yet uncertain spring building situation. Consumers of hardwoods are affected by the liquidation

going on in the lines of manufactured goods such as furniture, musical instruments, etc. Lumber prices for the most part are extremely low at the mills, but further reductions are not likely in the face of high costs of manufacture.

Lumbermen Pass a Resolution.

At a mass-meeting of lumbermen, held in Chicago, January 5th and 6th, 1921, at which was represented the entire lumber industry from the Atlantic to the Pacific and from the Great Lakes to the Gulf, after full consideration the following resolution was passed:

WHEREAS, there is a pressing national need for the revival of building activity, so that the people may have adequate and suitable homes, and that necessary industries may be able to secure the facilities essential to their efficient operation; and

WHEREAS, the prompt restoration of normal processes in the production and distribution of commodities and the early resumption of building require that a basis of building costs be reached in the reasonable permanence of which the public will have confidence; and

WHEREAS, the resumption of normal building activity may not be expected until the prices of commodities entering into the cost of construction shall be publicly understood and the reason therefor; and

WHEREAS, an important factor, which concerns every community in our country, is that of labor; and

WHEREAS, we believe in the dignity of labor, as no country on earth has ever had prosperity, long continued, where labor has been discriminated against, or where it has not received a just reward; and we believe that, although it must have its proper reward, it must, if building activity is to be successfully revived, accept, in most localities, less than its present wage scales,

THEREFORE, BE IT RESOLVED, at this mass-meeting representing the producers of lumber throughout the country, that "in our judgement, to the end that construction activity may be resumed, and the needs of the people be supplied on a fair, just and stable basis, all construction industries, and labor in the building trades, should recognize the deflation which has taken place, and should place their respective activities upon a basis consistent with the public interest in the revival of building activity."

We, therefore, call upon all other industries, and labor, which furnishes the essential elements entering into the costs of construction, to join with us in contributing their just part toward the reconstruction of the activity of this needful industry.

To this end, the producers of lumber pledge themselves, and invite the co-operation of all other

essential industries, referred to in this resolution, and of all those who are interested in reaching a practicable solution of the Nation's housing problem and in promoting the happiness, peace and comfort, and the profitable employment of the American people.

We therefore request the National Lumber Manufacturers Association to call, through its Executive Officers, a conference of these essential industries, for the 21st and 22d of January, 1921, at Chicago, Illinois, to the end that these and the related problems of finance, transportation, taxation and the restoration of public confidence, may be properly considered, and ways and means devised for attaining the end sought, namely, the revival of the building Industries of the United States.

Summary of Lumber Market Situation.

No great improvement in the general lumber market situation is looked for during this month, since the seasonal demand for all building materials is light and little buying of stocks by the retailer can be expected. Inventories which are being made by distributors, it is believed, will establish as a fact the belief widely held by the trade that stocks held by the yards are below normal volume. Low stocks and a fairly well gauged idea of requirements for spring should be reflected early in February by an appreciable run of orders on the mills. Today the mills of the larger producing regions have a minimum of unfilled orders and with little new business coming in. No large volume of stock is however being filed up because of the number of mills temporarily shut down.

An outstanding feature of the lumber manufacturing situation is the deflation of prices which has taken place in the last six months. Prices at the mill are in many instances below the cost of production and sales for the time being are made on this basis, though it must necessarily follow that either prices must advance or cost be further cut in order that manufacturing may be continued. Liquidation in the lumber industry has been carried further than in most other lines, reaching a point from 40 to 60 per cent lower than the high prices prevailing nine months ago.

Lumber Demand Increases.

A large increase in the demand for lumber is shown by the Trade Barometer of the Southern Pine Association. During the week ending January 14th, 136 mills reported orders received totaling 3,163 cars, or 68 million feet. This is the largest amount business received in any week during the past nine

months, the previous higher mark being in April 1920.

Production of Southern Pine is still reaching new low levels. Last week's output was the lowest of any similar week during the past six years and was 48 per cent below normal. Orders received during the week were 40 per cent more than the actual production. Of 78 mills reporting operating time, 22 operated full time, 20 were closed down entirely, and the others operated on various degrees of reduced time.

Stocks of lumber at Southern Pine mills were practically stationary during December. They are now slightly above normal but far below the stocks carried by these same mills in 1915 and 1916.

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 office 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.

34300.—A manufacturing company in Scotland desires to secure an agency for the sale of articles, materials, and appliances used by contractors in the building, heating, sanitary, and electrical trades, etc., preferably those which are standardized into a very few forms or types, so that stocks of a multiplicity of alternatives will not be required. Cash payments to be made. Quotations should be given c. i. f. Glasgow, Liverpool, and London. Reference.

Reduction on Cornell Wood Board.

On December 11th the Cornell Wood Products Company of Chicago announced a flat reduction on Cornell Wood Board of Four Dollars (\$4.00) per thousand square feet f. o. b. mill Cornell, Wisconsin.

The Company stated that this reduction was inspired by the desire to encourage construction, and to assist in stimulating activity in the building trade.

Cornell Wood Board is now not only extensively used instead of lath and plaster for walls, ceilings and partitions, but has been adopted by a number of manufacturing industries to take the place of wood in such articles as cigar boxes and similar containers; for toys and novelties; for packing cases, crates and compartments; for furniture—mirror backs, drawer bottoms, veneered table tops, chair seats, phonograph cases, folding art screens and general cabinet work; and for window display, exhibition booths and parade floats.

Trade Notes of Interest

Lockwood-Greene's Work in S. A.

Following is an extract from an interesting announcement by Lockwood, Greene & Co., the well-known engineers, with headquarters in Boston and Southern office in Atlanta:

"Many of our clients and other friends already are acquainted with the industrial and engineering work of Lockwood, Greene & Co. in South America. A steadily growing business there and the prospect of added future demands for an intimate knowledge of South American condition have led us to arrange for a resident representative.

"Dr. Albert Hale, whose association with us we now announce, is known to many South Americans as well as to many people in the United States with South American interests. His career, since matriculation at the Universities of Michigan and of Strassburg, has been bound up largely with South America where he has undertaken special work for the Associated Press, the Pan American Union and several well known American business houses.

"Dr. Hale is the author of 'The South Americans,' an authoritative book which as those who are familiar with the subject know, is a valuable contribution to current literature on the subject. He has been Commercial Attache at the American Embassy at Buenos Aires and elsewhere. He has had experience in Chile as intelligence officer with the United States Navy, and has been identified with business houses whose interests were centered in Central and South America. He is therefore well qualified to represent Lockwood, Greene & Co., on the South American continent.

"Before the end of the year Dr. Hale will leave for South America, where for the time being he may be addressed care of American Embassy, Santiago, Chile. Ultimately he will cross to Buenos Aires, Argentina. In the meantime, he may be reached at the New York office of Lockwood, Greene & Co., Engineers, 101 Park Avenue, New York City."

Dry Press Red Building Brick.

The dry press red building brick made by the Jersey Clay Products Company with St. Louis office at 888 Arcade Building, are manufactured from a red burining surface clay; they are burned in Patent Down Draft kilns; sound; well burned and will absorb a certain amount of moisture which makes them easy to lay up in ordinary mortar.

Brick that are somewhat absorbent have the advantage over so-called vitrified or shale brick, in that they do not cost as much to lay up, do not require cement in the mortar and will make a truer wall as well as make a dry building. It is an established fact that dry press brick, made from surface clay will absorb some of the water from rain storms, which water is quickly evaporated as soon as the sun or dry wind comes in contact with the walls.

When using vitrified or shale brick, the water or rain is not absorbed by the brick, but goes through the mortar joints, in between the brick, and goes to the inside, or the plaster, there spoiling the decorations on the inside of the building.

These brick are sorted as to grades and shades. Their select facing brick run in shades from Hard dark red, the hardest and darkest shade we make, to the Medium red shade, the lightest and softest shade.

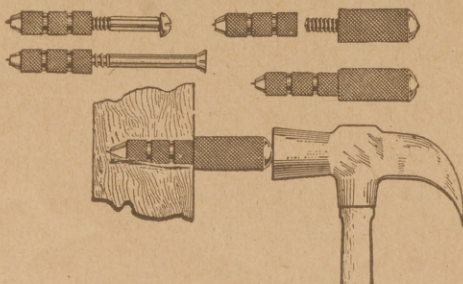
The complete list of shades are the Hard dark red, Dark red, Light dark red and Medium red shade, all being face brick.

They also a Streaked red face brick. These are similar to the Hard dark reds, but have a flash around the edges.

The Streaked red brick are also used for PAVING purposes for Side Walks and Yards. They make a smooth and Hard pavement.

The brick not quite good enough for best face brick that are sorted from the Hard dark and dark red shades called Straight hard brick. These brick are suitable for facing Factory and industrial build-

THE ONLY SCREW HOLES IN THE WORLD



No.	Wood Screw Holes	Length	No.	Machine Screw Holes	Length
4	"	1/2"	4-36	"	1/2"
6	"	13/16"	6-32	"	11/32"
7	"	13/16"	6-32	"	11/32"
8	"	13/16"	7-32	"	13/16"
9	"	13/16"	8-32	"	13/16"
10	"	13/16"	9-30	"	13/16"
11	"	1"	10-24	"	13/16"
11	"	13/16"	10-32	"	13/16"
12	"	1"	11-24	"	1"
12	"	13/16"	11-24	"	13/16"
14	"	17/16"	11-24	"	1/2"
16	"	17/16"	12-24	"	1"
18	"	17/16"	12-24	"	13/16"
20	"	17/16"	14-24	"	17/16"
			16-22	"	17/16"
			18-20	"	17/16"
			20-20	"	17/16"
			1/4"-18	"	17/16"
			5/16"-18	"	17/16"

Immediate Delivery from stock on the following sizes

I. S. STINE SCREW HOLES CO.
Waterbury, Conn.

Each size packed 100
Screw Holes and one Driving
Head in a Box.

ings, for Sewers, Wells, Cisterns and Chimneys.

They also have a grade called common Hard brick for backing purposes. These are the chipped brick from all the different shades of face brick.

They also sort out a BLACK HEADER brick for making a checker board effect when used with the Red face brick.

They will be pleased to quote brick at plant on cars or F. O. B. any point desired. Write them.

Southern Gypsum Co. Enlarges.

Although labor was scarce; structural steel, cement and lumber hard to get; and deliveries on new equipment slow the Southern Gypsum Co. Inc., of North Holston, Virginia, pushed ahead with construction work during 1920 and by the end of the year had increased its grinding and calcining equipment 75% and had in operation a thoroughly up to date plaster board plant.

The increase in grinding equipment means not merely greater capacity, but makes possible a higher standard for quality through finer grinding. At present the "Southern" product runs far above the average gypsum plaster in this essential quality,

which means easy working plaster with good sand carrying capacity.

Gypsum plaster board has a great future before it, regardless of the price of lath. Plaster board gives a better wall and a more fire resisting surface than is possible where wood lath are used, and its use is rapidly gaining the favor of both architect and builder. Southern Gypsum Co. Inc., has operated a small experimental plant for some years and in this plant has learned the peculiar problems of the board business and has gained experience which it has built into the new plant that began operations on December 1st.

Other new features during 1920 were the erection of large machine, carpenter and electric shops for making quick repairs throughout its large plant; the installation of a large mine hoist; and the completion of a bath and change house for the workmen.

A number of new homes were erected and additional steps in the way of road making and planting were taken, in line with the plans of a leading landscape architect, whose map forms the basis for the steadily developing village at North Holston.—Extract from a letter from President F. A. Wilder.

Building and Construction News

Bank and Office.

Washington, D. C.—Rosslyn Steel & Cement Co. will erect \$5000 office and restroom, Jefferson St. between K and M Sts.

Clermont, Fla.—First National Bank plans to erect building.

Elkton, Ky.—Bank of Elkton, W. C. Davis, V.-P., will erect \$25,000 bank and office building; 2 stories; 40x78 ft.; brick, stone facing; marble and wood floors; metal or composition roof; steam or hot-water heat; electric lights; John T. Waller, Archt., Hopkinsville, receives bids Feb. 25 to Mch. 1.

Henderson, Ky.—Kiwanis Club, probably Rotary Club, Chamber of Commerce and Woman's Club are promoting erection of \$275,000 office building; 5 stories.

Laurel, Miss.—Commonwealth National Bank & Trust Co. will erect building; 75x80 ft.; fireproof; pressed brick; terra-cotta trim; steel roof trusses; ornamental plaster ceilings; marble and bronze bank fixtures; vaults; subestimates received after Feb. 20 by H. G. Markel, Archt., 636 Commercial St.; Chas. Weanar Co., Equipment Engr., Canal Commercial Bldg.; both New Orleans.

Okmulgee, Okla.—Commerce Investment Co. will erect 7-story office building; 50x140 ft.; reinforced concrete; brick and stone face; concrete and tile floors; hollow fireproof tile; interior tile; ornamental terra-cotta; steel sash and trim; steam heat; Smith, Rea, Lovitt & Senter, Archts., open bids about Mch. 1. Address owner.

Tulsa, Okla.—Natl. Bank of Commerce, J. H. McBirney, Prest., reported to erect \$500,000 building, 3d and Main Sts.; 10 stories and basement; 55x110 ft.; brick, stone trim; composition roofing; fireproof; Bass, Knowlton, Graham & Reynolds, Architects.

Okmulgee, Okla.—Commerce Investment Co. will erect

7-story office building; 50x140 ft.; reinforced concrete; brick and stone face; concrete and tile floors; hollow fireproof tile; interior tile; ornamental terra-cotta; steel sash and trim; steam heat; Smith, Rea, Lovitt & Senter, Archts.; bids opened about Mch. 1. Address owner.

Hico, Tex.—Hico National Bank will expend \$60,000 to repair building.

Huntington, W. Va.—Dalton-Kelly Real Estate Corp., A. J. Dalton, Charleston; E. L. Miller, Huntington, and others organized to erect \$2,000,000 office building; 22 stories; brick, stone and steel; also plans to merge several Huntington banks or establish new bank with \$2,000,000 capital.

Lundale, W. Va.—T. F. Downing, Jr., is preparing plans for \$20,000 to \$25,000 bank and office buildings; 30x62 ft.; 2 stories; stone; hrdwood floors; hot water heat, \$2000; electric lights; safes; vaults; steel sash and trim;; will be built by employes of Lundale Coal Co.

Church Buildings.

Carrollton, Ala.—Baptist Church plant to erect Sunday-school addition. Address The Pastor.

Dothan, Ala.—First Baptist Church, Dr. C. Ross Baker, Pastor, is considering erecting building.

Florala, Ala.—First Baptist Church, Rev. N. O. Patterson, Pastor, will erect \$30,000 building; 84x78 ft.; brick veneer; brick foundation; Steel-shingle roof; pine and concrete floors; steam heat; electric lights; metal ceilings; plaster board; plans by the Pastor.

Miami, Fla.—First Congregational Church, Rev. Robert N. Ward, Pastor, 241 N. E. 15th Ter., will receive bids until Feb. 10 for \$53,575 building lately noted; 45x95 ft.; hollow tile, stucco and reinforced concrete; tile roof; concrete, cement and wood floors; 2 open fireplaces; electric lights; hollow fire-proof tile; metal doors; rolling partitions; wire glass; Walter C. DeGarmo, Archt.

Tuscaloosa, Ala.—First Presbyterian Church C. W. Weatherford, Chrmn. Bldg. Comm., will receive bids until March 7 for \$150,000 building; bids for mechanical equipment including heating, plumbing and wiring also considered on same date; plans and specifications at office of R. H. Hunt, Archt., James Bldg., Chattanooga, Tenn.

Beaumont, Tex.—First Baptist Church is reported to erect \$100,000 Sunday-school building on Pearl St.; 4 stories; brick and stone. Address The Pastor.

Edinburg, Tex.—Baptist Church will erect building. Address The Pastor.

Fort Worth, Tex.—First Methodist Episcopal Church South will erect \$20,000 Sunday school annex. Address The Pastor.

Houston, Tex.—Episcopal Church will erect \$45,000 building; 60x107 ft.; hollow tile and stucco; tile roof; wood and concrete floors; gravity steam heat; hollow fireproof tile; interior tile; rolling partitions; Cram & Ferguson, Archts., and Wm. Ward Watkins, Asso. Archt., both Seaman Bldg.; bids opened about March 1.

Houston, Tex.—Woodland Baptist Church will erect 3-story brick building, Norma and Morrison Aves. Address The Pastor.

Longview, Tex.—Catholic Church, Rev. L. L. Myers, Pastor of Longview Parish, will erect frame building; 25x40 ft.

Port Arthur, Tex.—St. Mary's Catholic Church will erect \$55,000 building. Address The Pastor.

San Antonio, Tex.—Travis Park Methodist Church will expend \$60,000 to improve building; Ralph H. Cameron, Archt.

San Antonio, Tex.—First Baptist Church 4th and Taylor Sts., will remodel building. Address The Pastor.

Waco, Tex.—Herring Ave. Methodist Church plans to erect building for church and hospital; 3 stories; 75x100 ft.; concrete and brick; concrete and brick foundation; cost about \$100,000; R. H. Hunt Co., Archt., Southwestern Life Bldg., Dallas.

Perry, Fla.—Episcopal Church will erect church building. The Pastor.

Chicamauga, Ga.—Ridgedale Church of Christ will erect one-story brick auditorium offer plans by Architect W. H. Sears, 905 James Bldg., Chattanooga, Tenn. C. W. Gibbs, Chairman, 108 N. Dodds Ave., Chattanooga.

Ocala, Fla.—Church building will be erected by St. Philips Catholic Church. The Pastor.

Tuscaloosa, Ala.—First Presbyterian congregation, Chas. W. Weatherford, chairman building committee, invites bids until noon, March 7, for constructing church building; bids are to be submitted separately for the building proper, the heating, the plumbing and the electric wiring; plans, specifications and proposal blanks may be obtained from R. H. Hunt, Architect, James Bldg., Chattanooga, Tenn.

Tuscaloosa, Ala.—First Baptist church will erect Sunday school annex. Robinson Brown, Chairman building committee.

Santee, Ga.—Presbyterian Synod of Georgia, Atlanta, plans to erect one or more buildings at cost of \$100,000; brick or stone.

Savannah, Ga.—Asbury Memorial Methodist Church, Rev. W. A. Kelley pastor, will proceed with erection of building previously noted; W. P. Marshall and Levy & Clark, of Savannah, probably will be the architects; main floor and basement; institutional work in basement; rest rooms, gymnasium, etc.; cost, \$100,000.

Business and Store Buildings.

Tampa, Fla.—Jos. Kasril, 1609 7th Ave., will remodel building; cost \$5000.

Salisbury, N. C.—E. P. Wharton, Greensboro, will erect business building and arcade at Main and Lee Sts.

Henryetta, Okla.—H. W. Fleeer will erect 2-story brick business building; 50x140 ft.; cost \$25,000.

Henryetta, Okla.—J. E. Whitenon and John Key will erect 3-story brick business building; also addition of second floor on brick building; 50x140 ft.

San Antonio, Tex.—Morris Jaffe contemplates erecting store on S. Flores St.

Galax, Va.—J. H. Brown will erect \$5000 business building and \$6000 residence; former, 30x70 ft., 2 stories; latter, 10 rooms and bath; both brick; roll rubber and slate surface asphalt shingle roof; concrete and Oak floors; electric lights; metal ceilings; day labor.

Norfolk, Va.—C. Hofheimer will erect addition and alter store at 1028-30 Church St.; 2 stories; brick; cost \$5000; Wickham Taylor, Archt., Citizens Bank Bldg.

Orange, Va.—Orange Grocery Co., Inc., L. Willis, Jr., Prest., will rebuild structure lately noted burned; 2 stories; 106x38 ft.; brick; \$10,000.

Clarksburg, W. Va.—Prunty Real Estate Co., Prunty Bldg., is reported to erect store and office building at 3d St. and Modoe alley; 90x80 ft.; 11 stories and basement; brick and hollow tile; J. E. Wood & Sons, Archts.

Charleston, W. Va.—Ben Bear will expend \$12,000 to repair 4-story brick and frame building on Capitol St.

Huntington, W. Va.—Jos. S. Fields, Propr. Fashion Store, will erect 6-story and office building at Fourth Ave. and 8th St.

Huntington, W. Va.—Dr. R. Stern and associates are reported to erect business building on Fourth Ave.

Huntington, W. Va.—Brown Bros., 1123 Third Ave., will erect building at Sixth Ave. and 8th St.; 110 30 ft.; cost \$15,000.

Anniston, Ala.—W. D. Nixon, Merrellton, will erect store and office building on site just purchased for \$15,000; 90x120 ft.

Athens, Ga.—Building for wholesale and retail dry goods store to replace burned structure and occupied by Sol. J. Boley Co. will be erected by Marks Estate, J. B. Joel, Agt.; 40x120 ft.; brick; tar and gravel roof; wood floors; metal ceilings; safes, steam heat, electric lights; probably electric elevators; cost \$35,000.

Miami, Fla.—Two-story steel and concrete building will be erected by Monmouth Plumbing Supply Co., Charles Rosecrans, Sec.; 150x150 ft. site; John H. Sculthorpe, Architect, Townley Bldg.

Public Buildings.

Montgomery, Ala.—State of Alabama bought site for \$22,000 and will build memorial to soldiers who lost their lives in the recent war.

Okeechobee, Fla.—Civic Club will erect clubhouse; \$7,000. The Secretary

Tuscaloosa, Ala.—Tuscaloosa, Country Club will erect clubhouse. F. G. Blair and others.

Nashville, Tenn.—State Founding Board, Hill McAlister, State treasurer, will sell \$1,000,000 of bonds to erect memorial building on Capital Blvd.

Macon, Ga.—Bibb County Commrs., John T. Moore and others, will erect \$400,000 courthouse; erect building in rear of present structure to house court, remodel present courthouse and later merge building; meet Feb. 15 to confer with local Architects.

Baton Rouge, La.—City will erect courthouse, for which \$450,000 bonds were voted; Edw. Neild, Archt., Shreveport.

Pryor, Okla.—Mayes County, T. W. Thompson, Commr., will erect courthouse; brick; stone trim; composition roofing; cost \$125,000; Tonni & Bramlett, Archts., Oklahoma City.

St. George, S. C.—City will remodel jail and courthouse. Address The Mayor.

Lake Worth, Fla.—City will erect \$50,000 casino and



Guaranteed Oil-Proofing For Concrete Storage Tanks

Large concrete tanks are being used extensively for the storage of crude oil, gasoline, and other oil products. They are more economical than steel tanks, and, if properly oil-proofed are more serviceable.

We are specialists in the treating of concrete tanks to retain gasoline, oils, and other products. *We do not sell materials. All our work is done under contract and is guaranteed.*

Our method accomplishes the following definite results:

It prevents seepage.

It protects the concrete from the destructive action of oil.

It prevents the oil from coming in contact with steel reinforcement.

If you have a concrete storage tank problem that is bothering you, consult our experienced engineers. Their advice may be had for the asking.

Western Waterproofing Co.

Suite 925

CENTURY BUILDING

ST. LOUIS, MO.

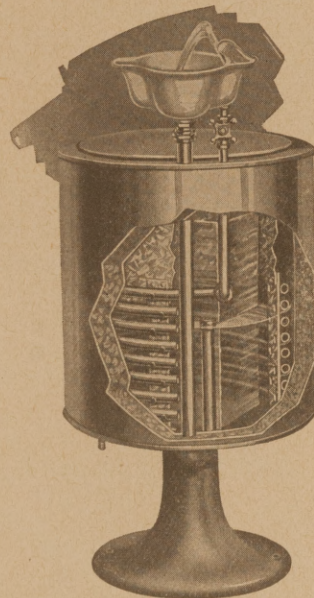
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 Penobscot Bldg. Detroit, Mich.
 1900 Euclid Bldg. Cleveland, Ohio
 103 Park Ave. New York, N. Y.
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"Doing One Thing and Doing It Well"

We are pioneers in the manufacture of sanitary drinking fountains and cooler fountains. We have devoted our entire energy to bringing this line up to the highest degree of perfection and the fruit of our concentration of effort is in the present recognition of

Puritan
CANTONMENT
 DRINKING
 FOUNTAINS

The most sanitary, most reliable and most durable drinking fountain to be obtained. Thousands and thousands of these fountains have been installed and each one has made a friend and a booster.



(Patented)

Puritan S-570 "Cantonment"
 Cooler Fountain

APPROVED AND
 ADOPTED BY
 the United States
 Government during
 the war, and today
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 "Cantonment"
 Fountains and
 Coolers will be
 found in every
 branch of
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 as well as in all of
 the largest
 organizations in the
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Halsey W. Taylor Company
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LARGEST EXCLUSIVE MANUFACTURERS OF
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MAKE PLANS NOW

TO INSTALL THE KNAPE & VOGT

Garment Care System

IN HOMES YOU BUILD THIS SPRING

**Save Money in Construction Costs.
Save Space and delight your clients by
providing them with modern
clothes closets.**

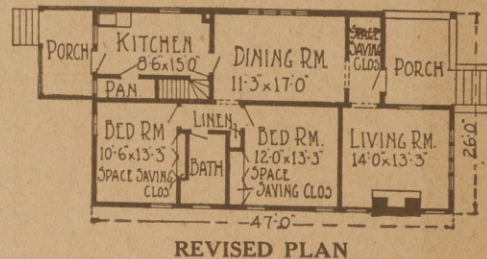
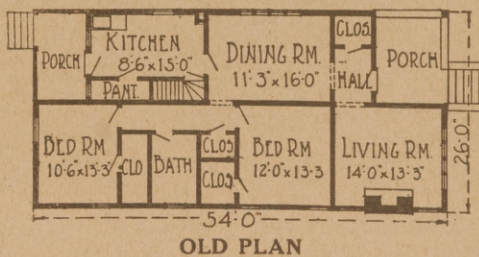
This cut shows how the modern closet equipped with the Knapé & Vogt Garment Care System appears. Occupies half the space of old fashioned closets, yet holds more garments, and keeps them in perfect order. No wasted space, no ruinous hooks. A place for everything, and everything in place.



Every room in the modern home has been improved with the exception of the clothes closet. It is now possible for builders to modernize this room also by installing orderly, space-saving closets—closets that do not mean an additional expenditure, but which, as a matter of fact, will save hundreds of dollars in construction costs. We can prove this statement in a few moments.

We shall be glad to assist builders with the revision of plans when Knapé & Vogt Garment Care Closets are specified. Thousands are giving satisfaction. Home owners everywhere welcome this relief from the old fashioned, disorderly closet.

NOTE THE SPACE SAVED IN THESE PLANS



If you are making plans for spring building we are at your service

KNAPE & VOGT MANUFACTURING COMPANY

Grand Rapids, Michigan

bathroom; 50x100 ft.; 2 stories; reinforced concrete, hollow fireproof tile and ornamental terra-cotta; cement roof and floors; metal ceilings; ventilators; city lights; W. B. Eckler, Architect., West Palm Beach; bids opened about March 1. Address F. M. Houghton, City Clk.

New Orleans, La.—Pavilion.—Audubon Park Comsn. plans to erect pavilion in connection with other improvements.

Memphis, Tenn.—City, R. R. Ellis, Chrmn. Auditorium Comm., will erect \$2,000,000 auditorium and market-house; portion, 5 stories and basement; other portions, 3 stories and basement; brick; marble; Bedford stone columns and trim, terra-cotta cornice and wall work; tile roof; electrical drop curtains and elevators; steam heat; auditorium to seat 12,000; install \$100,00 pipe organ; ready for bids about Meh. 1; C. O. Pfeil and Geo. Awsumb, Archts.

San Antonio, Tex.—Poor Farm.—Addition to building on Bexar County Poor Farm; cost \$5000; hollow tile; Phelps & Dewees, Archts; bids opened Feb. 5.

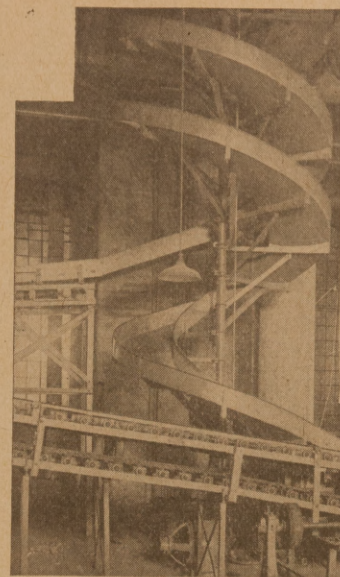
Deland, Fla.—Group of buildings will be erected by St. Luke's Memorial Hospital, Carl H. Knappe, Daytona, or board of trustees.

Gadsden, Ala.—Printup Hotel, Adolph P. Reich, Mgr. plans to erect annex; cost \$1000,000 to \$150,000.

St. Petersburg, Fla.—Additional stories will be erected to Englewood Inn, acquired by J. P. Williams of Beach Drive; also construct arcade building adjoining; 100 ft long; 2 stories; Johnsberg & Ritchie, Architects.

New Augusta, Miss.—Masonic Lodge will erect building; 2 stories; brick plans and specifications in charge of Jerry Oliver; cost, \$5,000.

Haleyville, Ala.—Hall will be erected by Masonic Lodge. H. B. Smith, Worshipful Master; Jack Mitchell, Secretary; cost \$10,000



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Wages High
NOW
Is the Time
when the need
for our
LABOR - SAVING
SPIRAL CHUTES
VERTICAL LIFTS
AND
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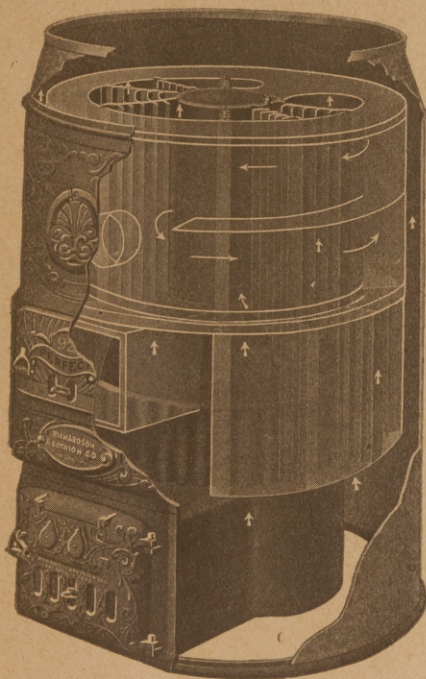
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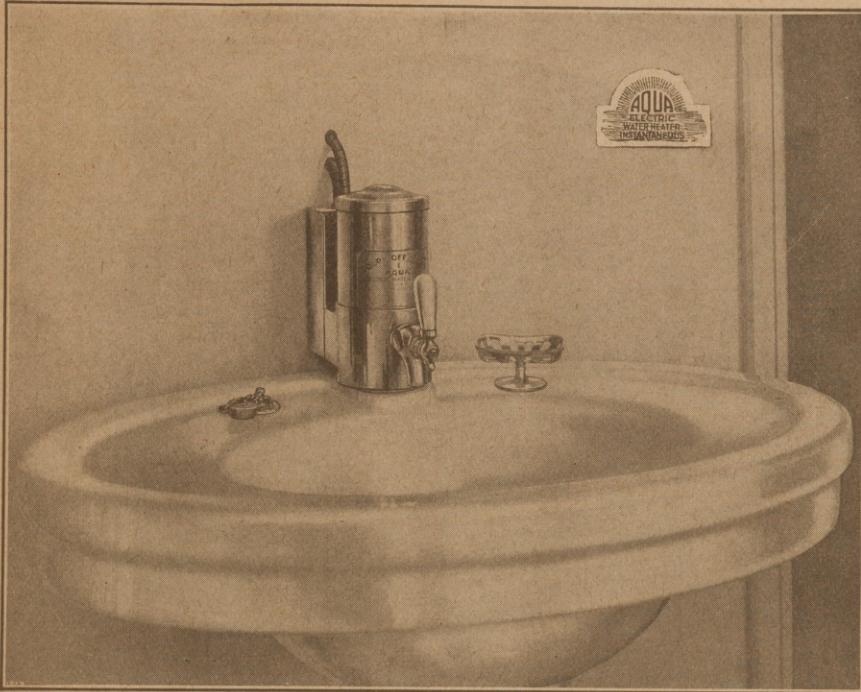
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Southern Architect and Building News



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Building Construction
McLennan Building
31st St. and Calumet Avenue
CHICAGO

Telephone Douglas 944 July 30, 1920

Gentlemen—Replying to yours of July 21st we beg to say that the Branson System of Joistmold Centering has been used by us in the construction of the reinforced concrete floor slabs of the twelve story apartment house at 229 Lake Shore Drive, the eleven story apartment house at 220 Walton Place, the eleven story hotel building at Granville and Kenmore and the eleven story apartment house at 232 Walton Place.

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Truly yours,
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By Hugh McLennan, Pres. (Signed.)

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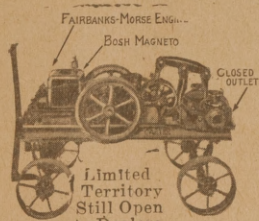
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Chicago, Ill., U. S. A.

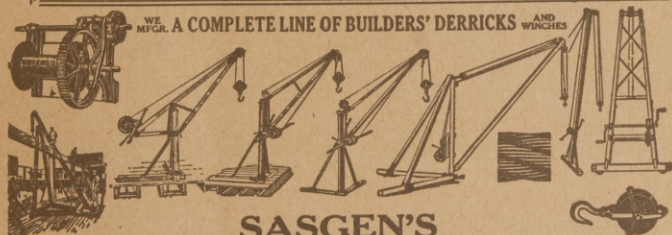
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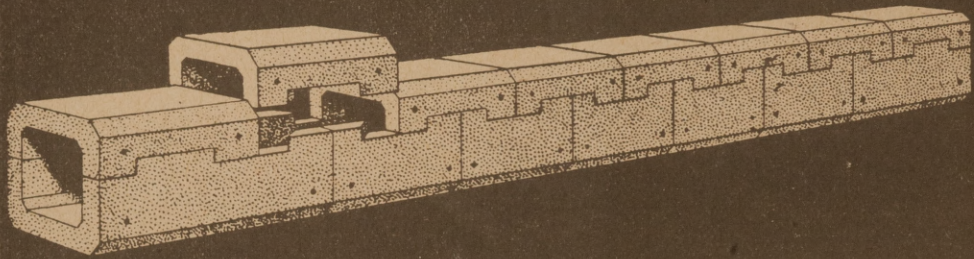
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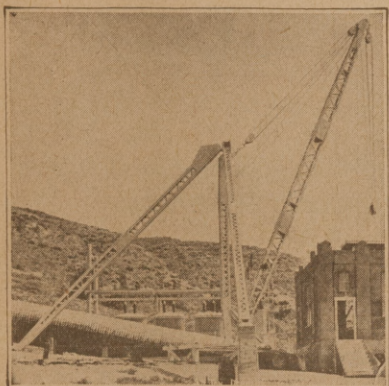


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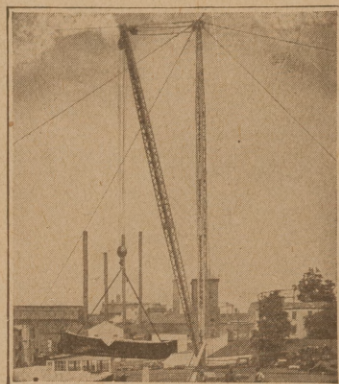
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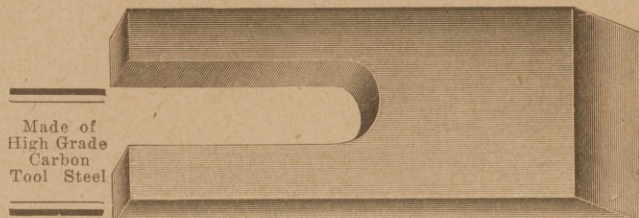


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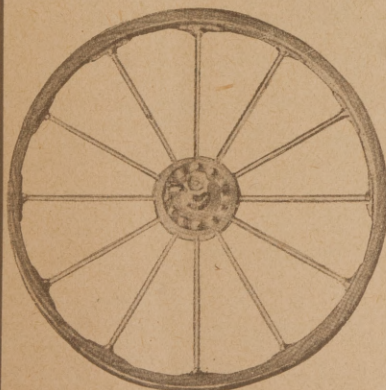
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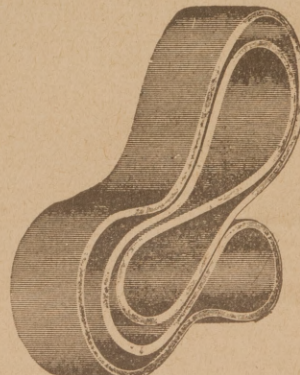
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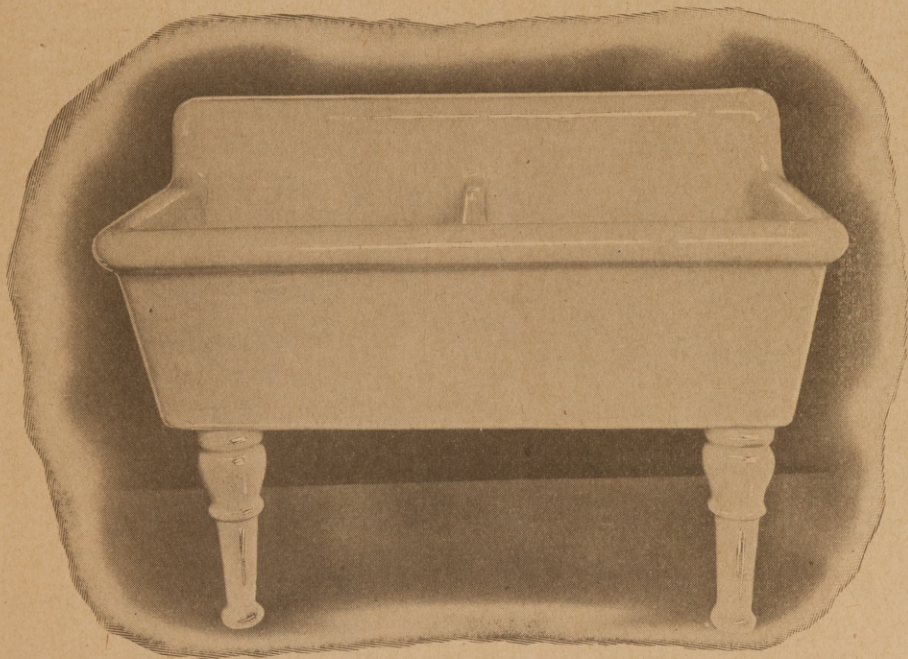
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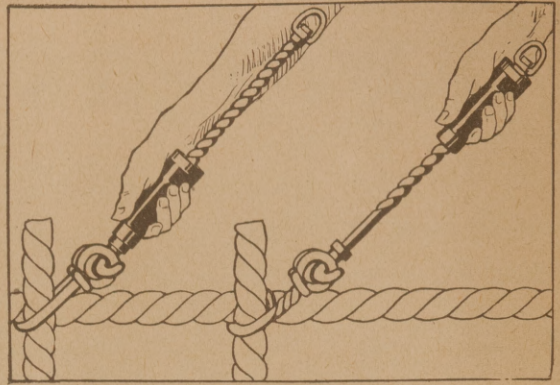
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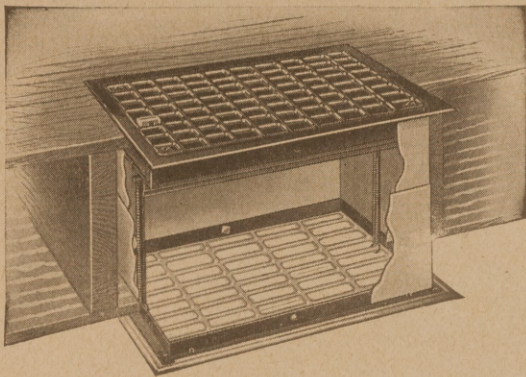


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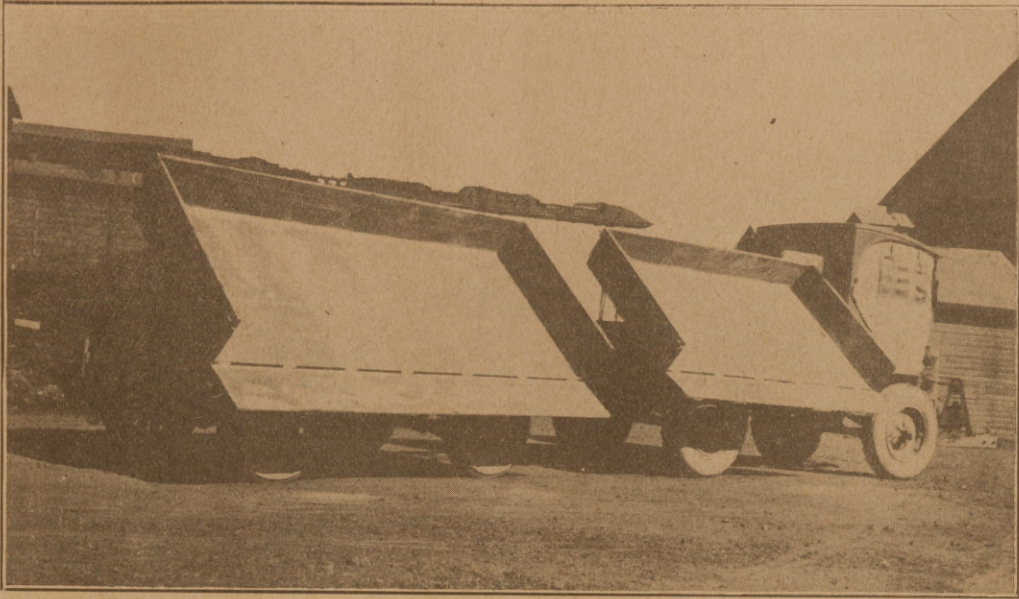
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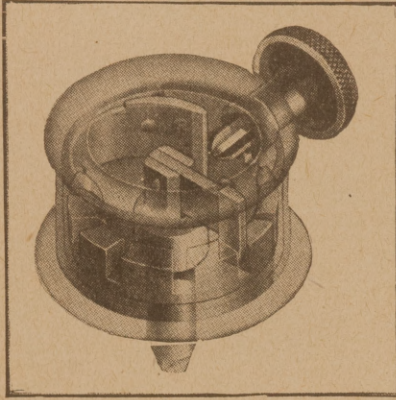
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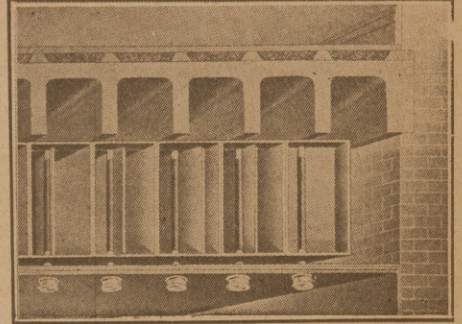
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regulating the flow of air, but also serves as a positive means of indicating the room to which each duct leads, by means of the numbered or lettered cover windows.



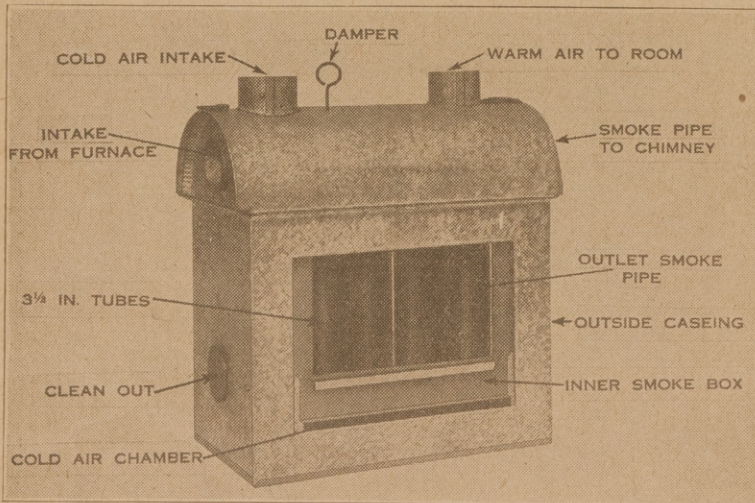
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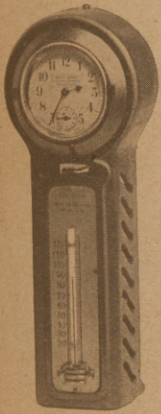
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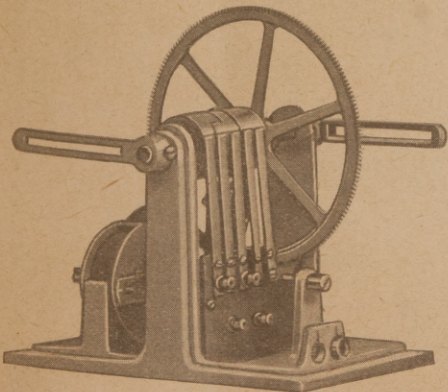
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Write for details.

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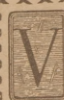
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in a community is made possible in most every instance by the use of inflammable roofing material, such as wooden shingles, asphalt, etc.

Hundreds of great fires could have been prevented—thus saving many precious lives and millions of dollars' worth of valuable property, had only SLATE been used in the beginning.

SLATE is the ideal Roofing provided by Nature for roofing purposes—why not let Nature take its course?



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Largest Shippers of Roofing Slate in the World
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GEORGIAN TERRACE HOTEL and PONCEDE LEON APARTMENTS, ATLANTA, GA.
 These are plastered throughout with Cherokee Cement Plaster. Sold by Agents everywhere in Georgia and throughout the Southern States.

SCIPLE SONS, Exclusive Agents for Atlanta.

Manufactured by

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Let us assist you in designing your
KITCHEN LAY-OUT

We are specialists in economical and serviceable arrangement of kitchen equipment, and our suggestions as to lay-out are based on careful study of the special requirements in each case. This service is yours for the asking.

We handle complete line of

Equipment for Hotels, Restaurants, Colleges, Etc.

Southern headquarters for kitchen and dining room ware of every description, ranges, refrigerators, etc. We are Southern representatives for the John Van Range Co., handling their famous line of heavy kitchen equipment for hotels, restaurants and institutions.

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Made from pure ASBESTOS Fibre with small percentage of binding material.

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It toughens and callouses with age. It will not dry out, peel or crack. It is a scientific combination of pure asbestos, gums, waterproof lacquer, and non-volatile oils. It is unaffected by the severest cold or most intense heat—fireproof and rotproof. Contractors can make big profits coating leaky roofs with Gumlastic roof coating. A gallon covers from 50 to 75 square feet. It is a perfect coating for burlap, canvas, tar and gravel, concrete, felt, iron, tin and steel roofs. You can save your customers money by coating their roofs with Gumlastic. Write us today for complete information.

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The APEX Closet Bowl is designed with a special cleanout device through which any obstruction can be located and removed by anyone in a few minutes without the use of cleanout tools.



THE APEX

We furnish complete combination if desired.

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Should the bowl become clogged, it is absolutely prevented from overflowing by the non-overflow feature. Positive insurance against ruined ceilings, walls, carpets and other consequential damages resulting from overflowing closets.

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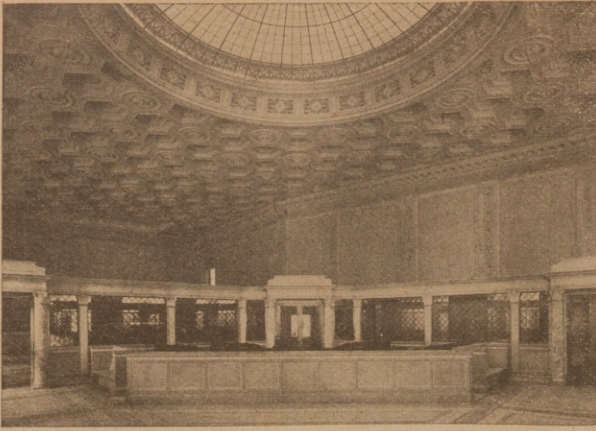
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BECAUSE—It will save you the salary of five men.
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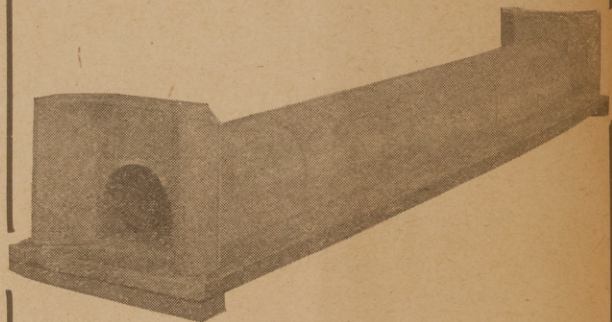
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This means money to YOU and service to your customers.

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Figure the



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The Nelsen Culvert is a guaranteed pre-cast culvert, approved by State Highway Engineers.

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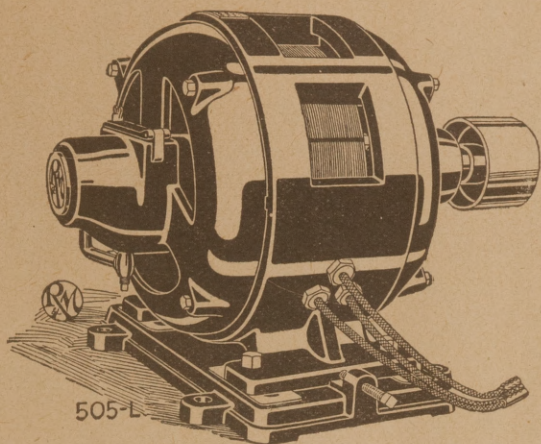
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Electric Light, Power, Telephone and Bell Wiring for Residence, Stores and Factories.

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

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Reliance Fireproof Doors, Windows and Trim are selected because of their superiority in design, efficiency, material and workmanship.

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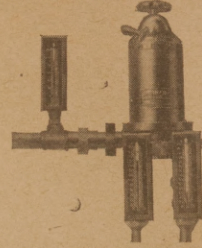
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ELMCO Handy Rafter Markers answer your need for a small building job on your farm or anywhere.

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The big thing in an automatic water heater is the *water valve*. If a water valve is sluggish, sticks, or fails to function properly, the heater is no longer automatic. Its value is destroyed.

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We believe it is the most perfect water valve ever designed.

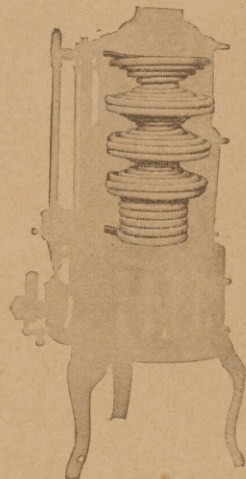
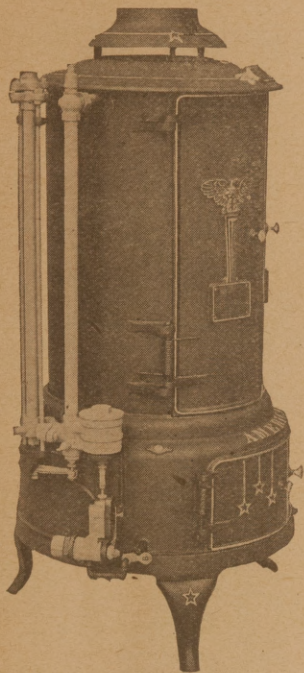
American Heater Corporation

Saint Louis

U. S. A.

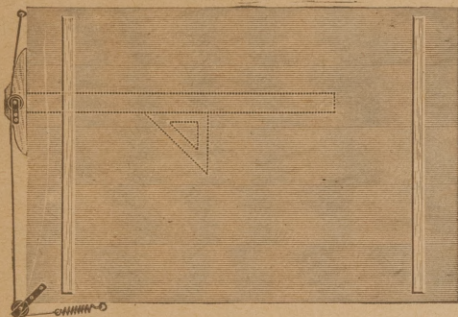
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Your T Square with *this* Parallel Attachment

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Easy to attach and simple in design, the

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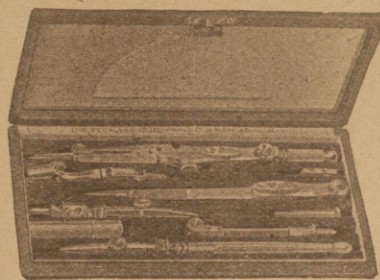
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We have also a full assortment of large sets of
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Galvanized and Black Sheets, Copper, Corrugated Roofing, Eave Trough, Conductor Pipe, Elbows, Solder, Zinc, Charcoal, Ladders, Tools and machines and all requirements for Tinsmiths and Roofers.

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Opens and Closes the Shutters from the Inside, and Automatically Locks Them in Any Position Without Raising the Window

So simple that a child can operate it. No opening of the windows or dangerous leaning out to release an obstinate catch. A veritable labor saver.

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Made of the most durable materials, carefully hand-fitted and finished in every part, thus insuring perfect and easy-working qualities and long wear.

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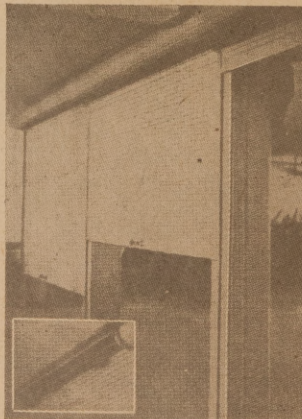
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STEEL SHUTTERS

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Branches in Principal Cities

*If a user recommends
a product, it's good.*

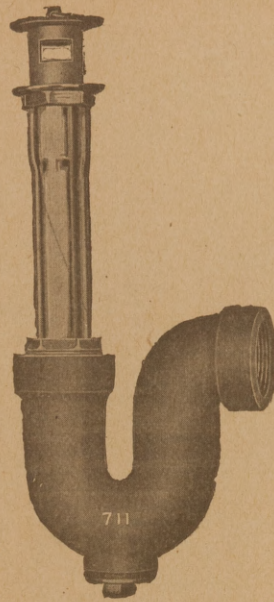
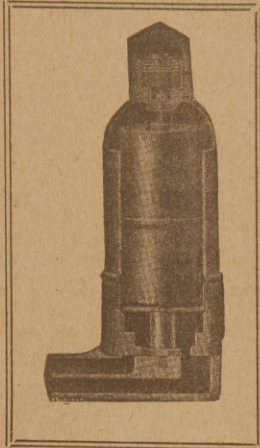
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The Russell Perfect Automatic Air Valve can be adjusted to any and all conditions. Made in all styles, bottom outlet, side outlet, lock shield and vacuum attachment.

Guaranteed for five years.

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"711"

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

"711"

is a brief but sufficient way of

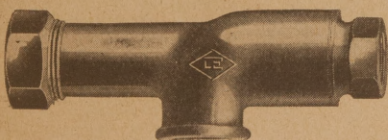
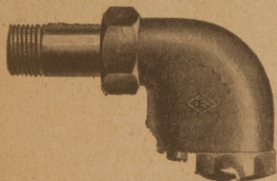
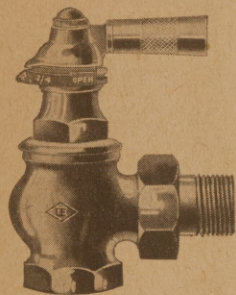
**BUILDING
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FOR BASINS, SINKS, TRAYS AND BATHS.

Write for prices.

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The "O-E" Perfect Air Exhauster and Vacuum Valve remains open as long as there is any air in the system, but port closes the minute any heat comes in contact with it. Always works. Cannot stick or buckle. Fool-proof.

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Simplicity and Economy

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Three systems—Vapor, Vacuum and Pressure—and simplified and clearly combined in one. Operates under vacuum most of the time, vapor part of the time, and can be instantly put under pressure when desired to obtain quick results. Most flexible system made. Better than straight vapor or water service, costs no more, and is easier to install.

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Let us tell you how to convert unsatisfactory steam and hot water jobs into O-E "3-in-1" Systems. The expense is nominal as compared with results. Will be pleased to forward detail blue print on application.

Booklets "A" and "B" will tell you all about it.

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Look for the Cross and Circle Printed in Red

THIS symbol appears on every genuine package of Alabastine. It guarantees you beautiful, durable, sanitary walls, modern and delicately tinted in soft, pleasing colors which harmonize perfectly with your rugs and draperies.

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TO DEALERS EVERYWHERE.

The word Alabastine, through the merits of the goods and the familiarizing of the consumers with our package and trade mark, represents to this consuming public a standard of quality. There is only one Alabastine. There is only one standard of quality. If a package of Alabastine in your town is good, it is no better than a package of the same goods in Shanghai, China, Tokio, Japan, or San Francisco, California. If it is not good then the packages in the above named locations are equally inferior.

The general consensus of opinion is that Alabastine is a good material. It has demonstrated its superiority by the test of time and by the wonderful demand existing for it.

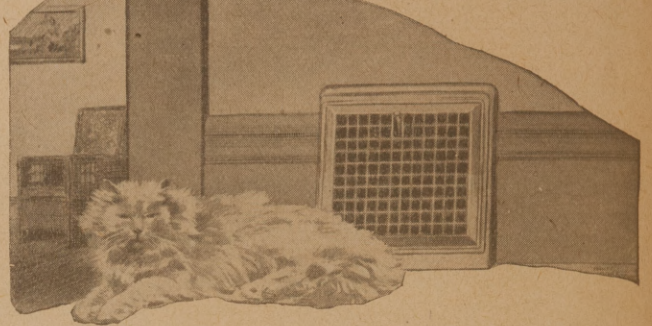
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ALABASTINE COMPANY
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Your local Dealer is Entitled to Your Trade

COLUMBIAN

All-Steel Warm Air REGISTERS



The Finishing Touch of a Good Job

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

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

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

Have you the latest Catalog?

The Columbian Hardware Co.

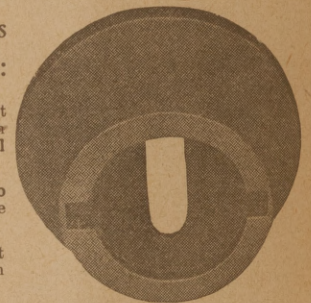
CLEVELAND,

OHIO

Advantages of Towe's Universal Concrete Insert

15 Good Reasons for using them:

1. Circular form is strongest and most powerful, which means one insert for all sizes.
2. Each Traveler takes two sizes of bolts, impossible with any other insert.
3. Takes either head or nut end of each, impossible with any other insert.
4. All sizes of band iron can be used without twisting the iron.
5. Pipe can be used in place of round iron if so desired.
6. 1 1/4" of up and down adjustment.
7. Adjustment of 1 1/2" to all points of compass.
8. Only insert made which has up and down and side adjustment complete in itself.
9. Easy to install, drive two nails in form and already for concrete.



- PATENT APPLIED FOR**
10. Locked in all positions.
 11. Rod can be used with hook instead of nut or head.
 12. Absolutely fool proof, cannot be misplaced in any way due to carelessness on part of mechanic.
 13. Breaking load. For Insert over 3 ton. Traveler 2 1/2 ton.
 14. Labor Saver.
 15. With 2 1/2" St'd washer can use toggles, hooks or bolts.

Particular attention is called to No. 1. The use of this style of iron for hangers is universal. It is adaptable in all its sizes as shown.

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Making Business Talk

Is comparatively easy if you speak through

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Outside Stains
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Cement Putty

Creosote Disinfectant
Wood Preservative
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Concrete
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Write or wire today for prices.

The Starks Manufacturing Co.

First & Main Sts.

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We Want Wide-Awake Jobbers

CRUSHED GRANITE

For

CONCRETE HIGHWAYS

And

COMMERCIAL PURPOSES

ALL SIZES SHIPPED PROMPTLY

A. T. Small Quarries Company

OFFICES: BIBB BUILDING, MACON, GA.

QUARRIES: HOLTON, GA.

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SERVICE



Perforated Radial Brick Chimneys

460-Foot Hei-
niche Chimney
has carried
acid gases for
21 years with
no decay what-
ever.

H. R. HEINICKE, Inc.

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Beautify your surroundings with

RUSTIC FURNITURE

We always have in stock summer houses, arbors, pergolas, settees, chairs, tables, flower boxes, bird houses, etc. For further information send for catalogue.

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TRENTON, N. J.

Here is a Glazing
Composition that
will—



Adhere tightly to iron, steel,
wood, glass, stone or concrete,
Make an elastic joint—tight yet
indefinitely flexible, preventing glass
from cracking.

Guaranteed to withstand heat, cold, rain
or extreme climate conditions, without chipping
or peeling.

KUHLS'

ELASTIC GLAZING COMPOSITIONS

is used for bedding and glazing all classes of glass
construction and is unequalled for securely setting
floor or wall tile. Also supplied in shades to match for
pointing up stone work, terra cotta, granite, etc.

Complete literature on this exceptional product to-
gether with testimonials from such prominent archi-
tects as Cass Gilbert, also the Lackawanna and Penn-
sylvania Railroad, will be mailed on request.

There is a reliable dealer in your locality selling
Kuhl's Elastic Glazing Composition. His name will
be sent on request.



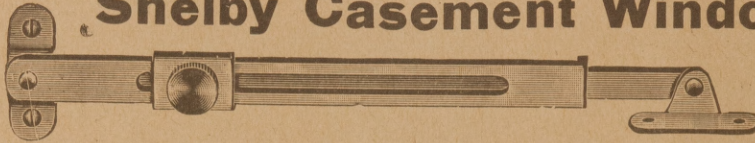
H. B. FRED KUHL'S

Sole Manufacturer

6413 Third Ave., Brooklyn, N. Y.

Shelby Casement Window Adjusters

Made at Shelby, O.
Sold Everywhere.



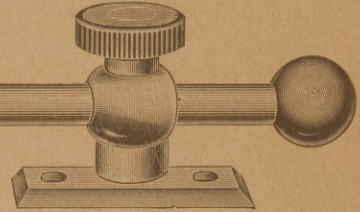
No. 1

No. 1 This Adjuster is universal for right or left hand windows opening in or out. Will hold the window positively locked in any position. Can also be used as a friction stay. It is also furnished with brackets to be used where attachment to window casing or trim board is necessary.

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



No. 2



The Shelby Spring Hinge Co.,

Shelby, Ohio

BUY YOUR SPRING WANTS NOW

Anything You May Need in Iron or Steel

CAN BE SECURED FROM

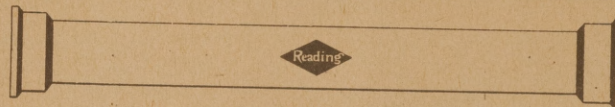
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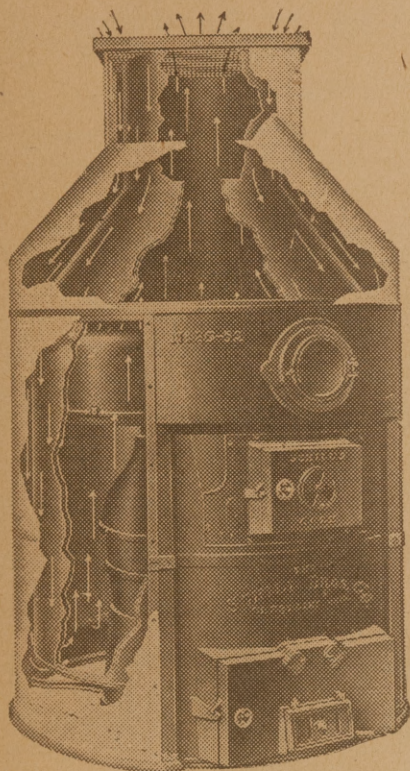
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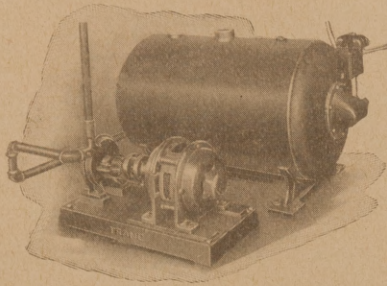


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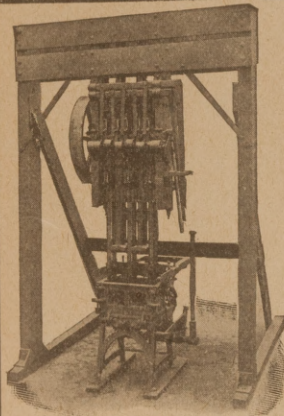
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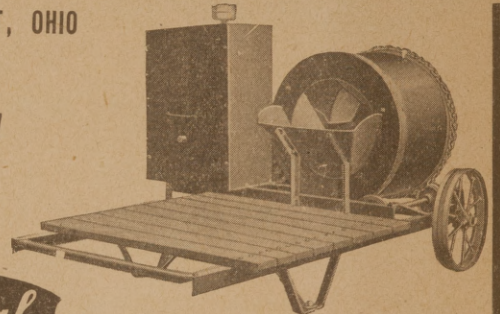


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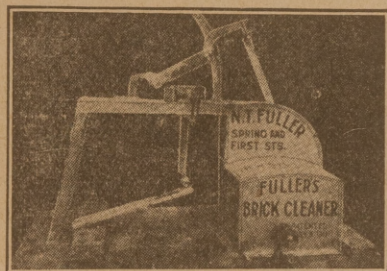
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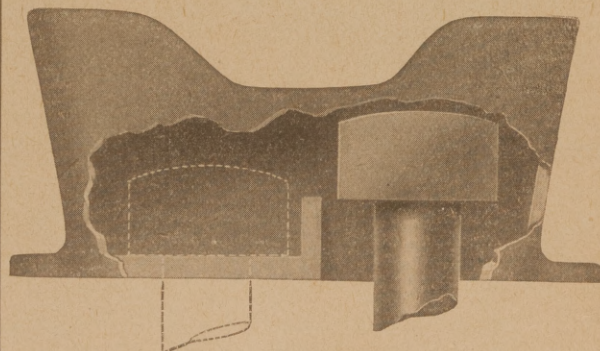
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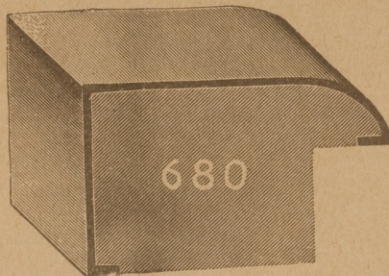
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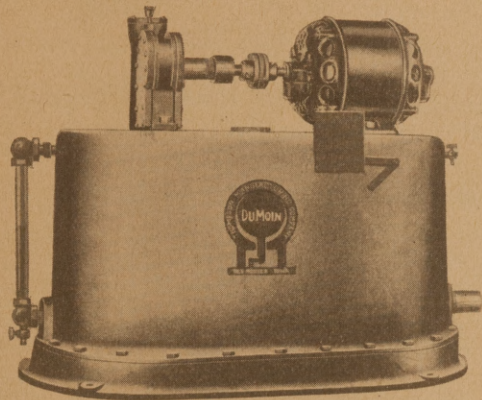
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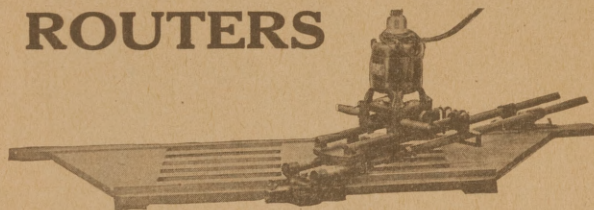
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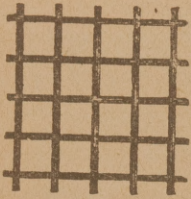
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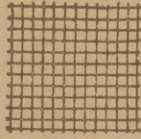
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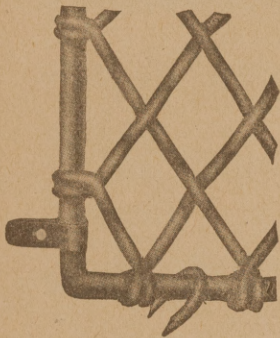
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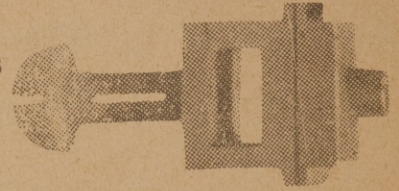
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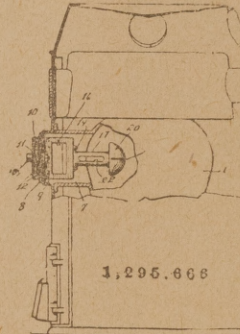


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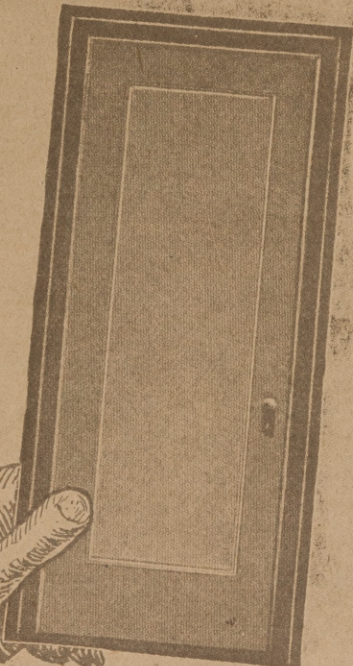
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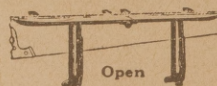


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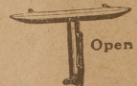


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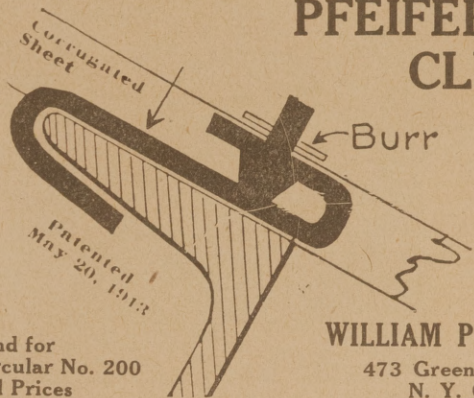
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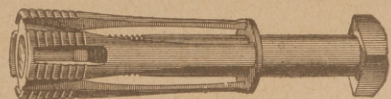
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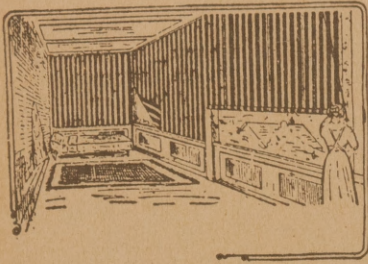
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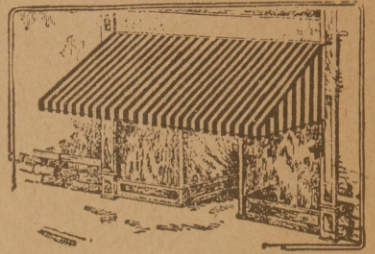
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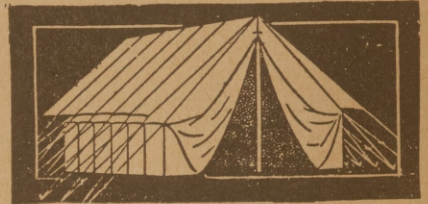
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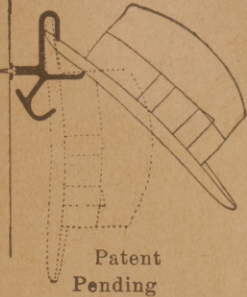
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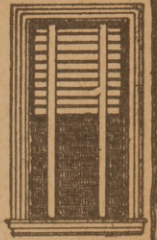
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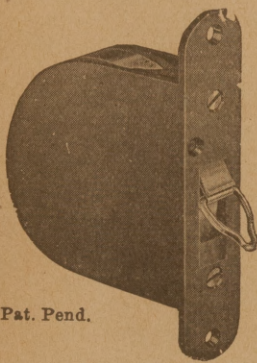


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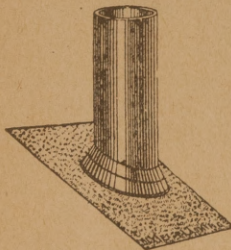
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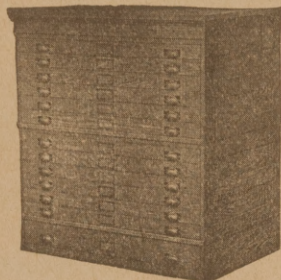
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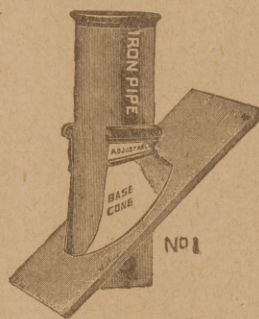
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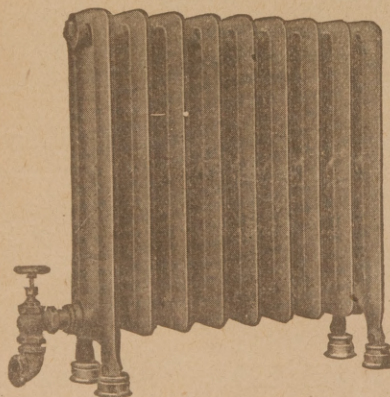
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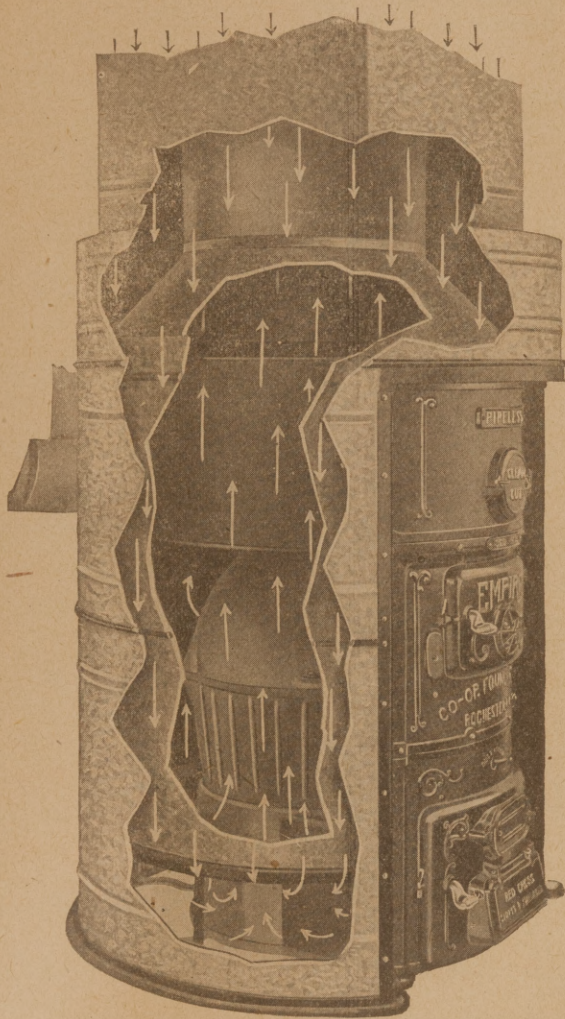
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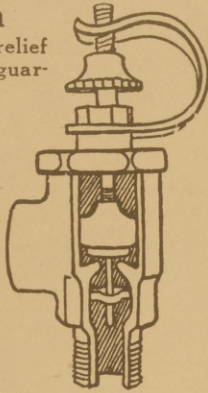
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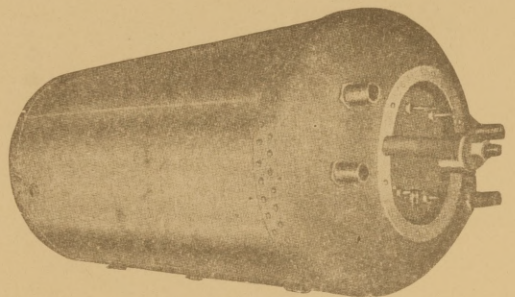
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