

AN "ALLEN" RECORD THIS CAN'T BE BEAT

John F. Allen.

Dear Sir:

"When we order another riveter it will certainly be an ALLEN, because this one has given the very highest satisfaction, doing perfect work and is right on the job, so that we are thoroughly satisfied with the machine in every way."

Winnipeg, Man.

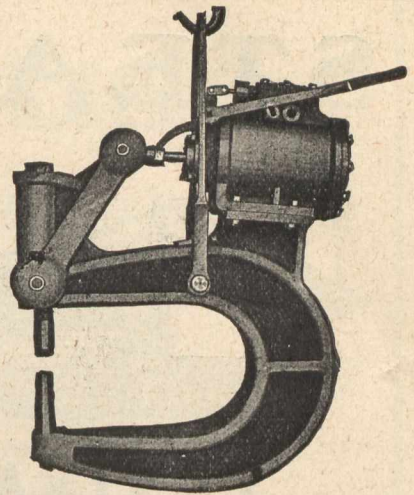
Manitoba Iron Works,
T. R. Deacon, Mgr.

Special Riveters Designed to meet all Requirements

JOHN F. ALLEN, 370-372 Gerard Avenue, New York, U. S. A.

Liebers and W.U. Codes: "Riveters"

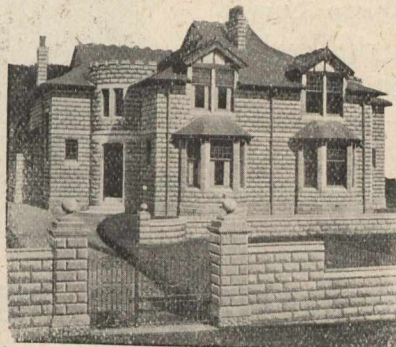
Established 1872



RAILWAY TIES.

One of the great agencies in wiping out our forests is the demand for railway ties. The long continued efforts to make a metal tie have been abandoned, and two years ago the Pennsylvania company began tree planting on a large scale to meet its own needs. It has set out over 2,000,000 trees, a fact which will have a large and beneficent influence on the water supply and the control of floods in the neighborhood of the Pennsylvania forest preserves. Now the company is going in on a large scale for a plant for the preservation of ties by creosote. The theory is that the treatment will prolong the life of a tie to three times its present usefulness. As the railroads of the country use 100,000,000 ties yearly, such a result would very greatly reduce the draft now made upon our mountain forests. Therefore, those interested in the conservation of national resources will watch the Pennsylvania's experiment carefully. Practical railroad men, however, will have their doubts. Hardening wood by creosote treatment is no new thing. It has indeed been tried and failed almost as often as has the attempt to substitute metal ties for tree trunks. Of course the Pennsylvania is making its investment in full knowledge of previous failures, and it must believe that it has found something better than its predecessors knew. It may be that, like the cheapening of aluminum, the lengthening of the life of railroad ties will be reached at the end of a long line of failures.

Double House Villa at Paisley, Scotland. All blocks in building and surrounding wall the product of a single "IDEAL" machine.



Greater resistance to heat and cold. Fire-proof under all conditions. Hollow blocks give practically frost-proof construction.

Lower in cost: "IDEAL" Blocks in any design produced for a fraction of the cost of stone.

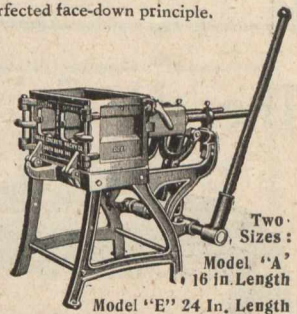
The Ideal Concrete Machine is the *only* machine legally built on the perfected face-down principle, allowing the use of rich facing material with coarser mixture for back of block. Interchangeable features found in "IDEAL" alone more than double its range of use and profit, often saving the purchase of several special machines. The "IDEAL" is simple, rapid and durable and its cost of operation is lower than that of any other machine.

See our exhibit at the Convention of the National Association of Cement Users, Central Armory, Cleveland, Ohio, Jan. 11-16, 1909. Of value to every Architect, Contractor, Builder and Dealer. Display of Ideal Interchangeable Block Machines and full line of concrete machinery. Our new development of concrete blocks will astonish the building world. Well worth coming expressly to see.

IDEAL CONCRETE MACHINERY CO., LIMITED

215 King St., London, Ontario, Canada

Canadian Sales Agents: MUSENS, Limited, Montreal,
Toronto, Winnipeg, Vancouver



Two Sizes:
Model "A"
16 in. Length
Model "E" 24 in. Length

Better Than Natural Stone

With all their advantages over natural stone as a building material, IDEAL Concrete Building Blocks may be profitably manufactured and sold *anywhere* at prices even lower than brick or lumber.

In England and Scotland where architectural beauty and everlasting durability are prime requirements, IDEAL Concrete Machines are rapidly taking the place of other sources of building material supply. Some of the advantages of

IDEAL Face-Down
Interchangeable
Concrete Machines

Greater range of artistic possibility. The same machine produces endless varieties of face designs.

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WILLIAM G. HARTRANFT CEMENT CO., LIMITED
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Best to Last. 150,000 Poles in Stock
100,000 Ties at our Sorting Yards

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Yards: BAY CITY, OMER, BOYNE FALLS, CASS CITY and MONROE

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WRITE FOR PAMPHLET

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