

F. GUTTERIDGE.
 APPARATUS FOR MOLDING CONCRETE BRICKS AND BLOCKS.
 APPLICATION FILED MAR. 3, 1911.

1,001,022.

Patented Aug. 22, 1911.

2 SHEETS—SHEET 1.

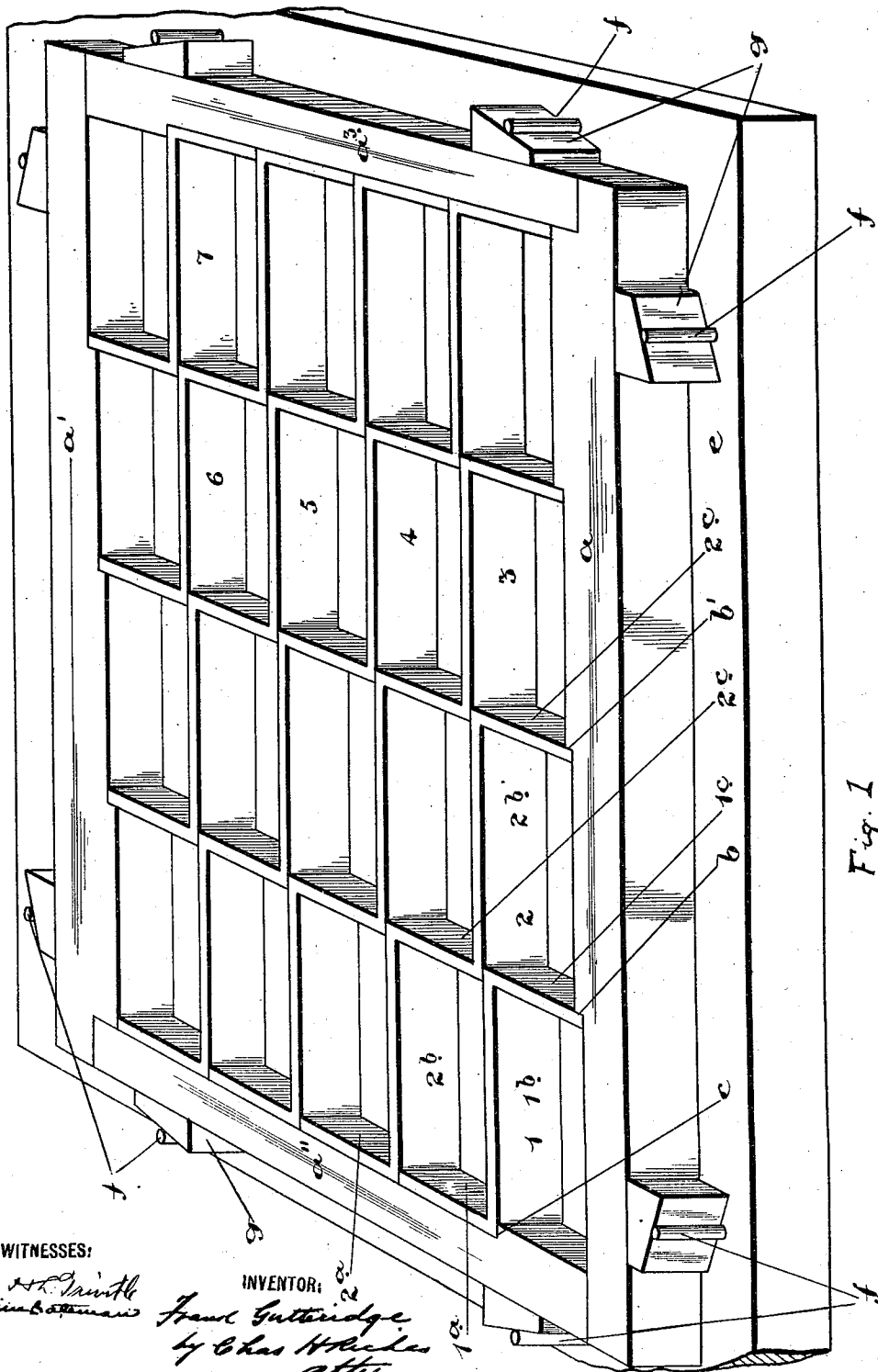


Fig. 1

WITNESSES:

Wm. Smith
Chas. H. H. H.

INVENTOR:

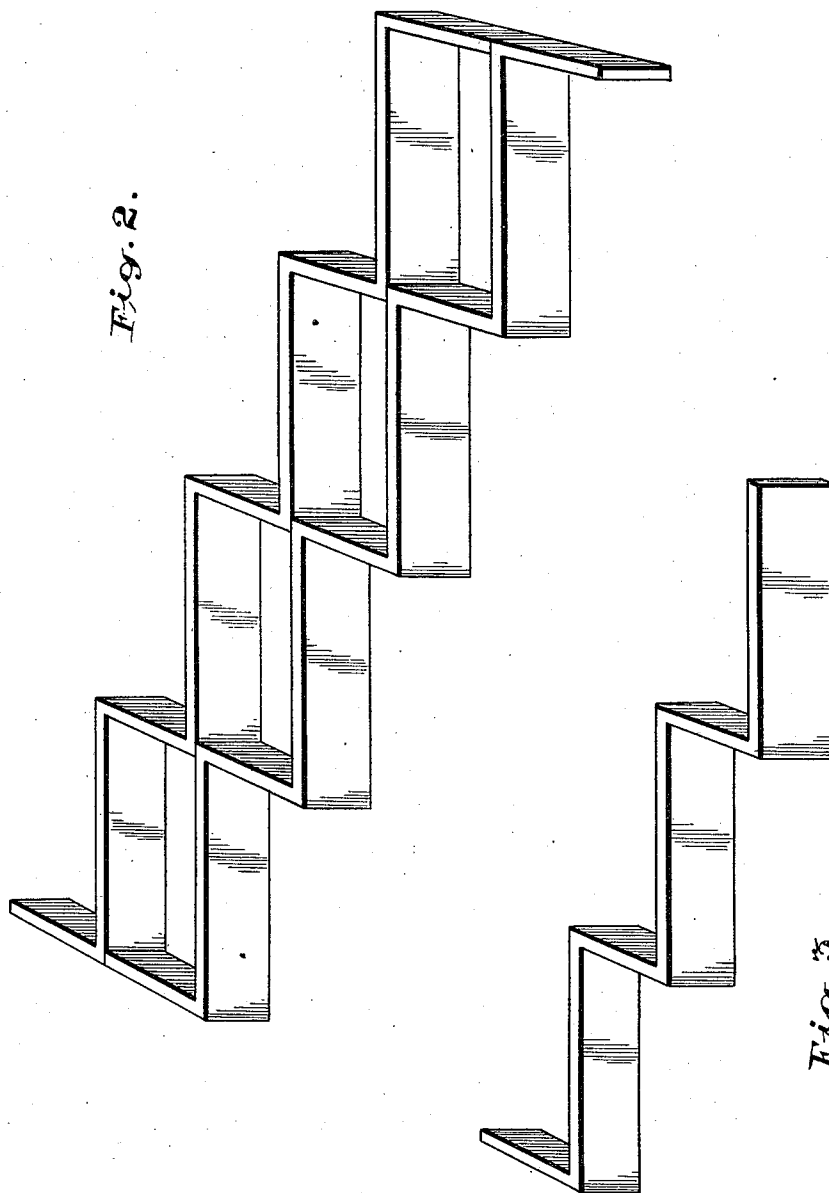
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UNITED STATES PATENT OFFICE.

FRANK GUTTERIDGE, OF SARNIA, ONTARIO, CANADA.

APPARATUS FOR MOLDING CONCRETE BRICKS AND BLOCKS.

1,001,022.

Specification of Letters Patent. Patented Aug. 22, 1911.

Application filed March 3, 1911. Serial No. 612,152.

To all whom it may concern:

Be it known that I, FRANK GUTTERIDGE, of the town of Sarnia, in the county of Lambton and Province of Ontario, Canada, have invented certain new and useful Improvements in Apparatus for Molding Concrete Bricks and Blocks; and I hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to a molding apparatus having a plural number of mold cells formed by diagonally stepped partitions removably contained within a retaining frame which is so constructed as to maintain the partitions in their proper relative positions for the formation of the mold cells whereby the concrete bricks or blocks can be molded, and to permit of the removal of the partitions when the concrete is set without shattering its structure as hereinafter described and particularly pointed out in the claims.

For an understanding of the invention reference is to be had to the following description and to the accompanying drawings in which:—

Figure 1, is a perspective view of the molding apparatus showing the construction of the retaining frame and the arrangement of the diagonally stepped partitions therein. Fig. 2, is a perspective view of two adjacent partitions, and, Fig. 3, is a perspective view of one of the partitions showing the diagonally stepped mold sides.

Like characters of reference refer to like parts throughout the specification and drawings.

The retaining frame is of a rectangular shape and consists of four separable sides a , a' , a'' and a^3 , and as shown in Fig. 1, seven diagonally stepped partitions numbered 1 to 7 inclusive are placed within it to form with each other and with the sides of the retaining frame, twenty mold cells.

The partition 1 consists of three sides 1^a , 1^b , 1^c . The side 1^c is parallel with the side a'' and the end of the side 1^c engages a shoulder b on the inner face of the side a to prevent the pressure of the concrete within the mold cell displacing the side 1^c from its fixed position within the retaining frame. The side 1^b is parallel with the side a , and the end of the side 1^b engages a shoulder c on the inner face of the side a'' . The side 1^a is parallel to and abuts against the side a'' and engages the side 2^b of the partition 2 to space the side 2^b from the side 1^b . The

partition 2 consists of a side 2^a abutting against the side a'' and two sets of sides 2^b and 2^c , one of the sides 2^c abutting against a shoulder b' , in the inner face of the side a , similar to the shoulder b and for the same reason, the side 2^b adjacent the side 2^c being parallel with the side a and abutting against the end of the side 1^c , the other side 2^b being parallel with the side 1^b and abutting against the end of the side 1^a .

The partition 3 consists of three sets of sides similar to the sides of the partition 2, and the partition 4 consists of four sets of sides, and the partitions 5, 6 and 7 correspond with the partitions 3, 2 and 1 respectively. By means of these seven partitions I am able to divide the interior of the retaining frame into twenty mold cells, each of which is capable of shaping a perfectly formed brick or block.

To provide for the separation of the molding apparatus I use, as shown in the accompanying drawings, a base e having upwardly extending pins f on the outer faces of the frame sides, and I introduce between the pins f and the frame sides, clamping wedges g which force the frame sides together and separably hold them in that position until the wedges are removed.

Bricks and blocks made from "wet" concrete are harder and more serviceable than when made from "dry" concrete, and although I may use "dry" concrete for molding the bricks or blocks, I prefer to use the "wet" material which is poured into the mold cells and allowed to set. When the concrete has set within the mold cells, the wedges g are removed, the mold sides are separated, and then commencing with either mold partition 1 or 7, the removal of the partitions is effected, these partitions being subsequently used to mold other bricks or blocks during the hardening of the concrete which has set.

I have shown a molding apparatus having seven diagonally stepped partitions to form with the frame sides twenty mold cells, but I can use a larger or smaller retaining frame with a greater or less number of partitions to make a molding apparatus of any predetermined number of mold cells.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is:

1. A molding apparatus for concrete bricks and blocks consisting of four sepa-

5 rable frame sides and a plural number of diagonally stepped partitions removably contained within the frame sides and forming therewith and with each other a plural number of mold cells.

10 2. A molding apparatus for concrete bricks and blocks consisting of four separable frame sides and a plural number of diagonally stepped partitions removably contained within the frame sides and form-

ing therewith and with each other a plural number of mold cells, said frame sides having retaining shoulders on their inner faces engaging with the ends of the partitions.

Toronto, February 24th, 1911.

FRANK GUTTERIDGE.

Signed in the presence of—

CHAS. H. RICHES,

H. L. TRIMBLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
