G. L. REED.

CEMENT BLOCK MACHINE.

APPLICATION FILED OCT. 10, 1906.

901,740. **Patented Oct. 20, 1908.**

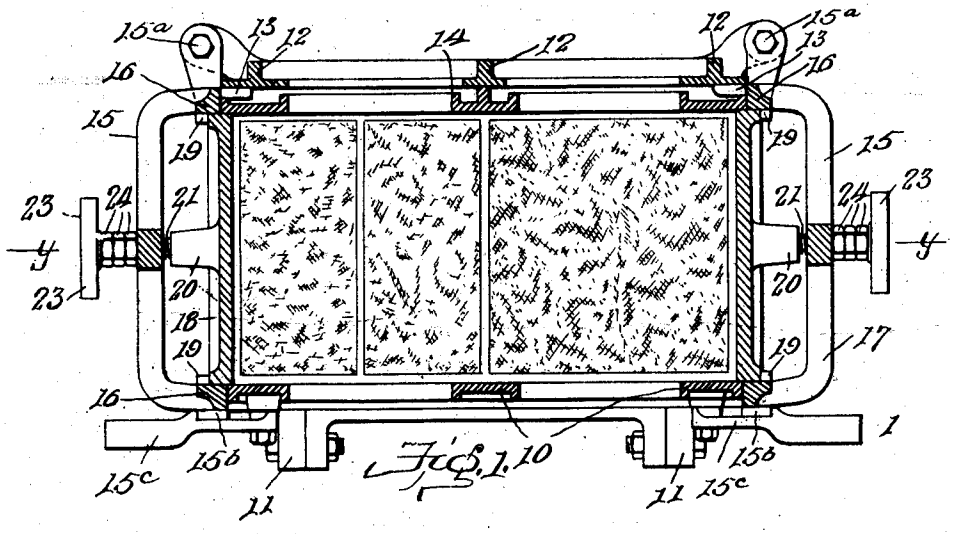


Fig. 1.

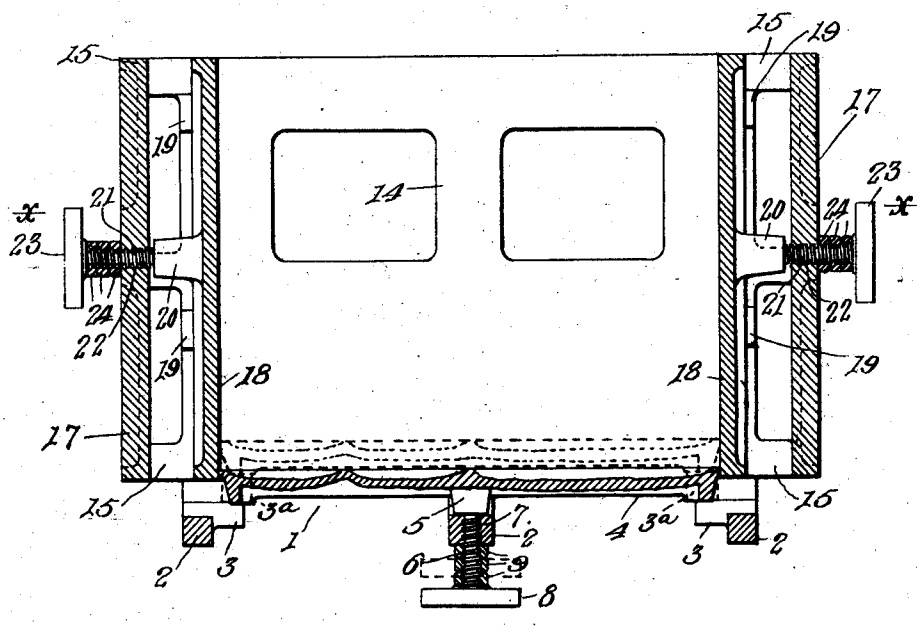


Fig. 2.

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GEORGE L. REED, OF SPRINGFIELD, OHIO, ASSIGNOR TO THE REED MANUFACTURING COMPANY, OF SPRINGFIELD, OHIO, A CORPORATION OF OHIO.

CEMENT-BLOCK MACHINE.

No. 901,740. Specification of Letters Patent. Patented Oct. 20, 1908.

Application filed October 10, 1906. Serial No. 338,217.

To all whom it may concern:

Be it known that I, GEORGE L. REED, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Cement-Block Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The present invention relates to cement block machines, and more particularly to molds for cement building blocks.

The object of the invention is to produce a mold of this character in which blocks of various sizes may be molded and which will permit the use of interchangeable face and end plates to produce blocks of different figuration.

With these objects in view, the invention consists of the construction to be hereinafter described, and then more particularly pointed out in the claims.

Referring to the accompanying drawing, Figure 1 is a horizontal sectional view, taken on the line x x of Fig. 2; and Fig. 2 is a vertical section, taken on the line y y of Fig. 1.

In these drawings, I have shown my invention in its preferred form, in which the supporting member for the face plate comprises longitudinal members 1 connected by transverse bars 2 which are supported upon a table or other support of suitable construction. These cross bars are provided with suitable lugs or supports 3, adapted to receive the ends of the face plate 4 and support the same in its proper position relatively to the mold. The face plate is provided near its central portion with a boss 5 which is provided with an internally threaded recess adapted to receive the threaded end of the bolt or rod 6 which extends loosely through an aperture 7 in one of the cross bars 2 and is provided on its outer end with a hand wheel 8. In order to limit the inward movement of the bolt 6 in the recessed boss 5, I provide a series of washers 9 between the apertured cross bar 2 and the hand wheel 8 of the bolt 6. When it is desired to vary the position of the face plate 4 relatively to the mold proper, the bolt 6 is loosened in the boss 5 and suitable liners or filling strips interposed between the face plate and the supporting lugs 3 on the cross bars 2, as shown in dotted lines at 3^a in Fig. 2, a corresponding number of washers 9 being removed from the bolt to allow the same to extend upward and again engage the lug 5 and clamp the face plate in its proper position. The side walls of the mold frame may be formed in one piece with the side plates of the mold or they may be constructed independent thereof and the mold plates supported within the same. In the present instance, I have shown the rear member of the mold frame as comprising the rear side plate of the mold, as shown at 10, and hinged at its lower edge to the base of the mold frame, as shown at 11. The front wall of the frame is comprised, in the present instance, of a skeleton frame 12, which is hinged at its lower edge to the adjacent side of the base of the mold frame and is provided with supporting lugs 13, on which the front face plate 14 of the mold is supported in its proper relation to the mold. In the present instance, this front face plate serves as a pallet upon which the completed block is supported when removed from the mold by turning the same upon its side in the well known manner. The end members 15 of the mold frame are composed of upright members or posts 16, which are connected in pairs by the arched cross bars or yokes 17. Each end frame is hinged at 15^a on one side to the adjacent side frame and on its opposite side it is provided with one member, 15^b, of a clamp or locking device, the other member, 15^c, of which is carried by the other side member of the frame, whereby the end frame is securely locked to the side frame, and the entire mold is secured in its assembled position.

The end plates 18 of the mold are removably mounted between the upright members 16 and held in vertical position by means of lugs 19, carried by the end members 16, and are of sufficient thickness to extend beyond the edge of the upright members 16 and overlap the adjacent edge of the side plates 14, thereby serving to retain the same in a vertical position. The end plates are provided with clamping means for retaining the same in their proper position relative to the mold, which comprises a lug 20 having a threaded recess therein adapted to be engaged by the threaded end of the bolt 21, extending loosely through an aperture 22 in the cross bar 17, and provided at its outer end with a hand wheel 23. A series of washers or nuts 24 are provided between the apertured cross bar and the handle 23 of the bolt 21, whereby the inward movement of the bolt within the re-

cessed lug 20 is limited. The end plates 18 may be adjusted relatively to the remainder of the mold in a manner similar to that in which the face plate 4 is adjusted, namely, by loosening the bolt 21 and interposing suitable liners or filling strips between the end plate and the supporting lugs 19, thus enabling the end plates to be adjusted to accommodate the same to face plates of different lengths.

The operation of the device is obvious and will be readily understood from the foregoing description. In brief it is as follows:—The dimension of the block to be formed having been decided upon, the face plate 4 is adjusted to a proper height relatively to the mold by the interposition of filling strips between the said face plate and the supports 3 and securely clamped in place by means of the threaded bolt 6 extending through the apertured cross bar and engaging the threaded lug 5 carried by the face plate. The end plates are then adjusted and secured in position in a similar manner, the pallet 14 is then placed in position on the frame member 12 and the frame assembled and locked in its upright position by means of the clamping members 15^b and 15^c. The mold is then filled and the block removed in the usual manner.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

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

1. A device of the character described comprising a frame, a mold supported thereby, a vertically adjustable face plate for said mold having a threaded boss, supporting members carried by said frame and adapted to extend beneath the edges of said face plate, filling strips adapted to be interposed between said supporting members and said face plate for varying the position of said face plate relatively to the side walls of said mold, and a threaded bolt loosely mounted in said frame and engaging said threaded boss to secure said face plate in its adjusted position, and means for limiting the movement of said bolt in said frame.

2. A device of the character described comprising a frame, a mold supported thereby, a vertically adjustable face plate for said mold having an internally threaded boss, a support for said plate, means for varying the position of said support relatively to the side walls of said mold, a threaded bolt loosely mounted in said frame and engaging said threaded boss, and means for limiting the movement of said bolt in said frame to correspond to the position of said support, substantially as described.

3. In a device of the character described, a frame having corner posts, a mold supported by said frame and comprising longitudinal members extending between said posts at the sides of said mold, one of said longitudinal members being removable, removable lateral members extending between said posts at the ends of said mold, said lateral members extending beyond the vertical edges of said posts and engaging said longitudinal members to retain the same in their proper positions, and an adjustable bottom member for said mold, substantially as described.

4. In a device of the character described, the combination, with a frame comprising a base, end members, and upright posts carried by said end members and arranged near the sides of said base, of a mold comprising a face plate adjustably supported on said base, end plates carried by the end members of said frame between said upright posts, and side plates arranged on the opposite sides of said base between the upright posts of the opposite end members.

5. In a device of the character described, the combination, with a frame comprising a base, end members, and upright posts carried by said end members and arranged near the sides of said base, of a mold comprising a face plate supported on said base, means for adjusting the position of said face plate relatively to said frame, a clamp for securing the same in its adjusted position, an end plate adjustably secured to each of the end members of said frame between the upright posts thereof, and side plates arranged on the opposite sides of said base between the upright posts of the opposite end members.

In testimony whereof, I affix my signature in presence of two witnesses.

GEORGE L. REED.

Witnesses:
A. C. LINK,
EDWARD L. REED.