No. 798,947. PATENTED SEPT. 5, 1905.

A. BURKHOLDER.

CEMENT BLOCK MACHINE.

APPLICATION FILED JUNE 14, 1905.

Fig. 1.

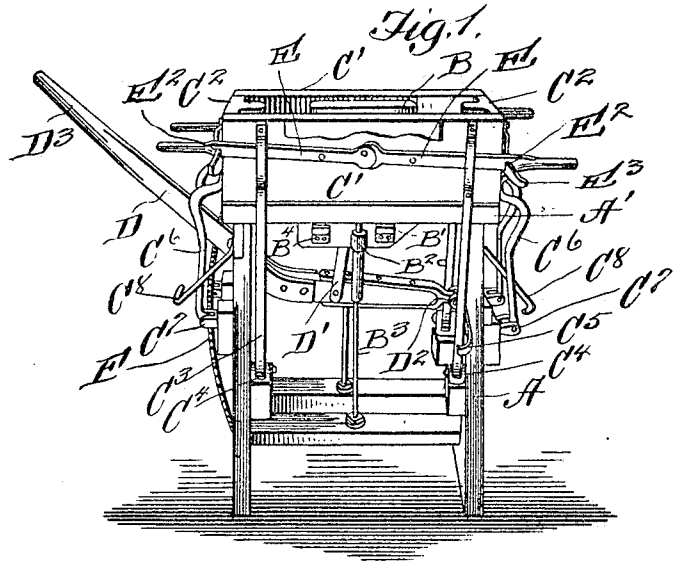


Fig. 2.

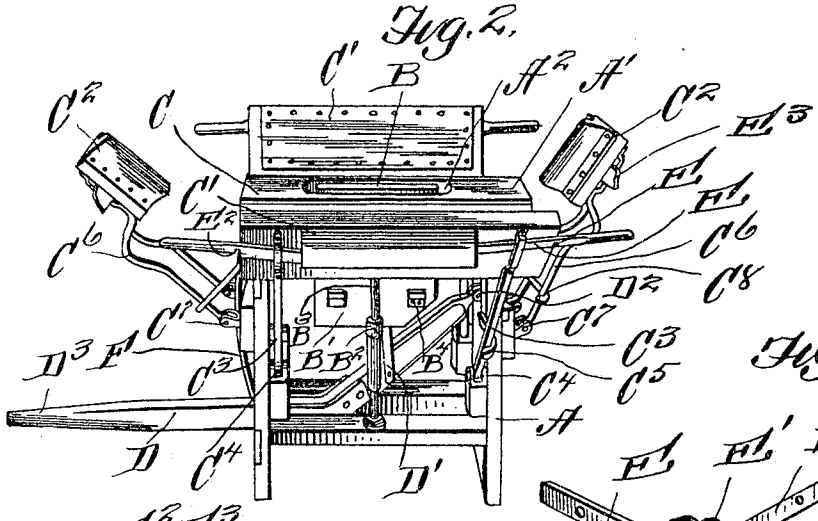


Fig. 4.

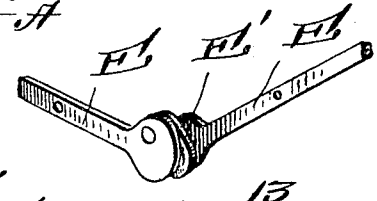
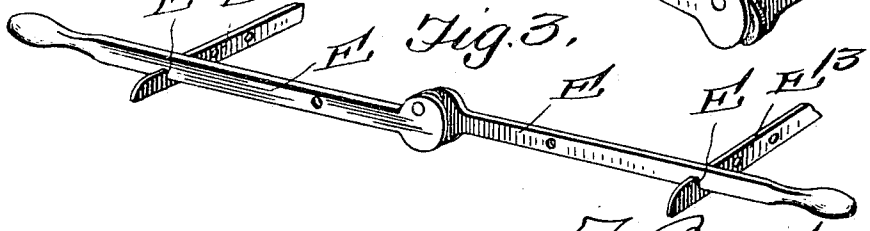


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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CEMENT-BLOCK MACHINE.

No. 798,947. Specification of Letters Patent. Patented Sept. 5, 1905.

Application filed June 14, 1905. Serial No. 265,183.

To all whom it may concern:

Be it known that I, ALBERT BURKHOLDER, a citizen of the United States, residing at Clarksville, in the county of Butler and State of Iowa, have invented certain new and useful Improvements in Cement-Block Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to a cement-block machine, and particularly to a mold having removable sides and ends.

The invention has for an object to provide an improved novel construction and arrangement of parts for supporting the sides and ends of the mold and for elevating and depressing the core from the mold-box, together with means carried by the sides for engaging and retaining the ends in closed position.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claim.

In the drawings, Figure 1 is a perspective view showing the mold-box closed. Fig. 2 is a similar view with the sides open. Fig. 3 is a detail elevation of the locking-levers for retaining the sides and ends in the position shown in Fig. 1, and Fig. 4 is a detail perspective view.

Like letters of reference refer to like parts in the several figures of the drawings.

The letter A designates a frame or standard of any desired construction or arrangement and provided at its upper portion with a top plate A′, having a central aperture A^2 therein through which the core B of the mold passes. Resting upon this top plate is a bottom board C, upon which the molded article is designed to rest and which may be removed with the article from the mold-box. The core B is provided at its lower portion B′ with sleeves B^2, extended therefrom and surrounding guide-rods B^3, supported by the frame of the machine at opposite sides of the core, so as to guide the core-block in a direct vertical line. This block is also provided with stops B^4 to limit its upward travel. The core is connected with an operating-lever D by means of a link D′, pivotally connected to the lever and core, while the lever is pivotally supported at one side of the machine, as shown at D^2, by means of the strap-bearing embracing the end of the lever. The opposite extended end D^3 of the lever is adapted to be grasped by the operator in raising and lowering the mold and may be retained in its raised position by a rack F, engaging a tooth thereon.

The mold-box is composed of the opposite side walls C′ and the end walls C^2, each of which may be of any desired size or configuration suitable for the article to be molded. The side walls C′ are supported in position by means of the extended hinge-arms C^3, pivotally mounted at their lower ends C^4, while the extent of travel of these arms is limited by means of a holder C^5, attached to the frame of the machine. The end walls are also provided with a similar construction of extended hinge, as shown at C^6, pivotally mounted at C^7 and adapted to engage a holder C^8 in order to limit their downward movement, as shown in Fig. 3. The walls of the mold-box when assembled, as shown in Fig. 1, are connected together by means of the latch-plate and levers, shown by detail in Fig. 3, which comprises levers E, each pivotally mounted upon one of the side walls and connected together at their inner ends by means of a link E′, whereby the motion of one of the levers is transmitted to the opposite lever. Each of these levers is provided with a locking hinge or tooth E^2, adapted to engage with a coöperating latch-plate E^3, secured to the end walls at a right angle to the levers and engaging the same, as shown in Fig. 1.

In the operation of the invention it will be seen that when the parts are assembled to form the mold-box, as shown in Fig. 1, the end and side walls are securely held in contact with each other by means of the levers and latch-plates, while the core is retained in its elevated position. As soon as the article molded has become sufficiently set the levers at one end of the box are shifted upward and the end walls thus released from the side walls, while the core-operating lever is depressed to remove it from the mold-box, thus elevating the parts shown in Fig. 2, when the bottom board containing the molded article may be removed from the box and the article cured or dried in the usual manner.

Having described my invention and set forth its merits, what I claim, and desire to secure by Letters Patent, is—

A block-molding machine, comprising a

frame, a lever pivotally mounted thereon, a mold-box having ends and sides, which are provided with hinged arms connected to said sides and ends, a core working through an aperture in the top of the machine, stops upon said core projecting from the sides thereof, vertical guide-rods, sleeves carried by the core and working upon said guide-rods, a link connection between said core and lever, the ends of the mold-box having each a notched bar, a plurality of levers pivoted to each folding side of the box and provided with notches, adapted to engage the notches of said bars, the inner ends of said levers being pivotally connected eccentrically, as set forth.

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

ALBERT BURKHOLDER.

Witnesses:
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R. L. SLIMMER.