

Jan. 9, 1951

L. W. MANUEL
MOLD FOR BUILDING BLOCKS

2,537,684

Filed Feb. 25, 1949

2 Sheets-Sheet 1

Fig. 1.

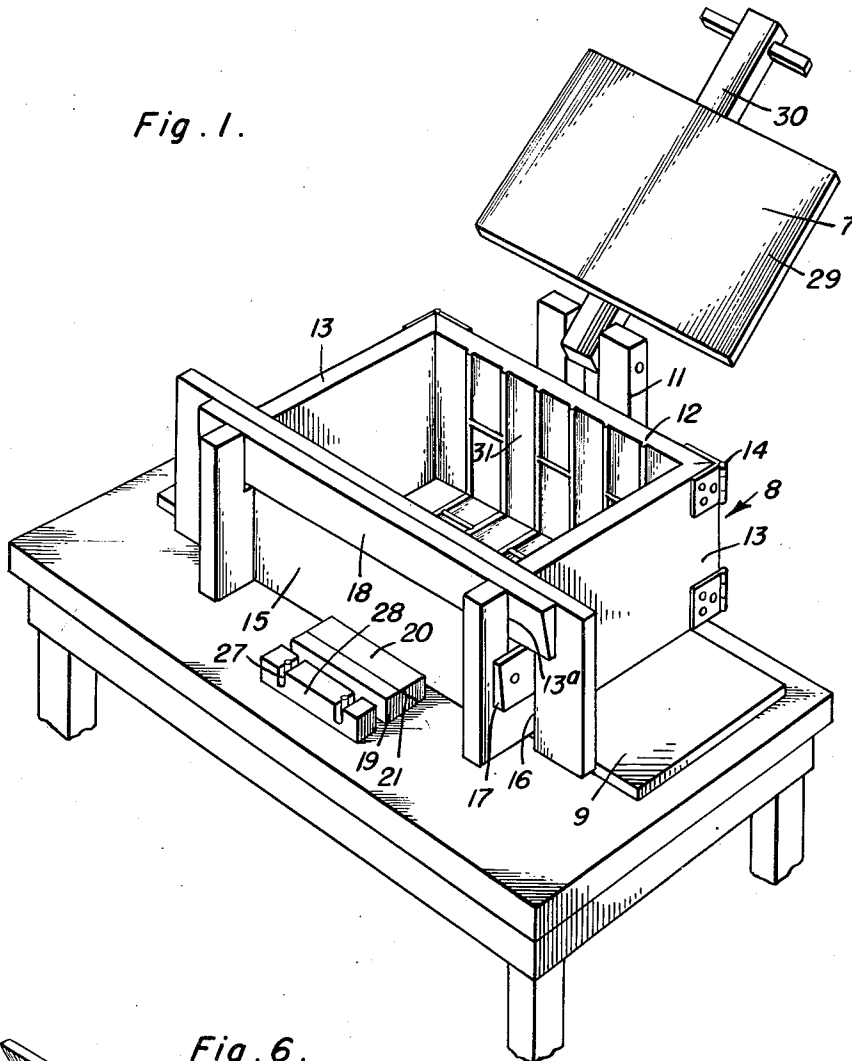
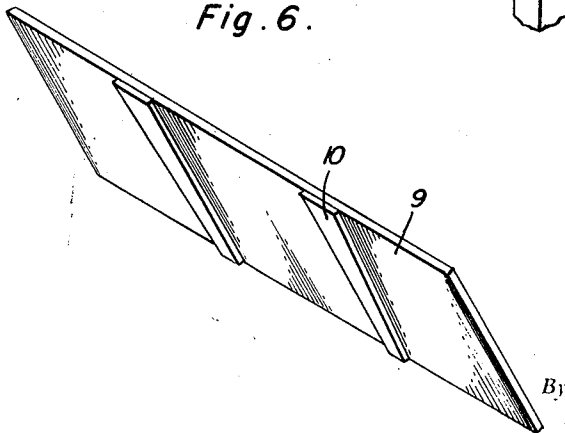


Fig. 6.



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Fig. 2.

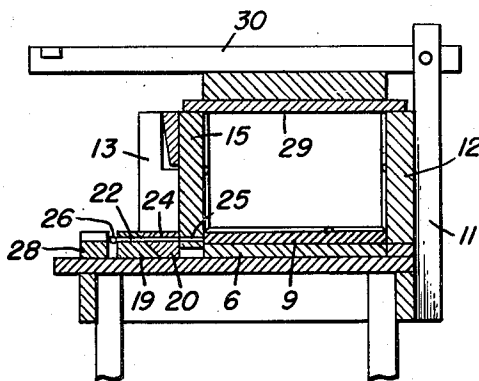


Fig. 3.

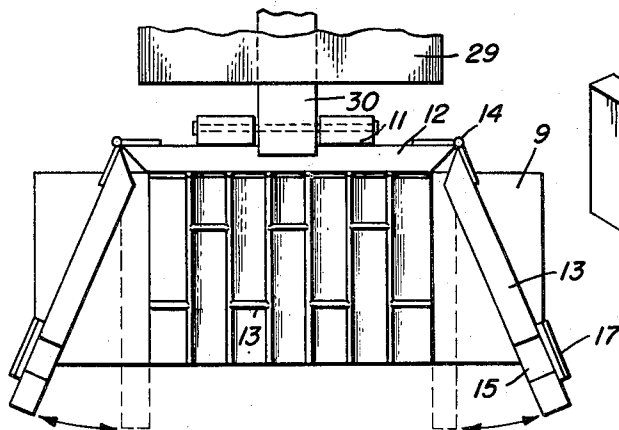


Fig. 4.

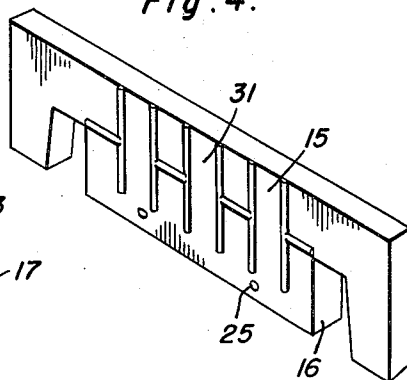
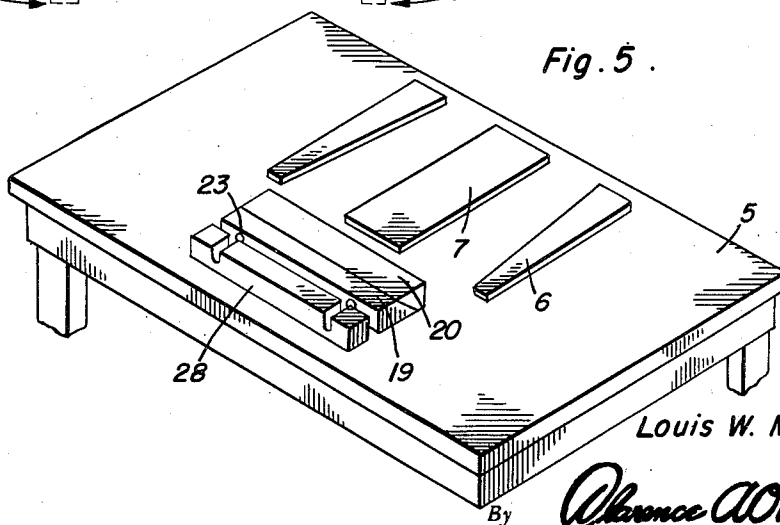


Fig. 5.



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UNITED STATES PATENT OFFICE

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MOLD FOR BUILDING BLOCKS

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4 Claims. (Cl. 25--121)

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The present invention relates to new and useful improvements in molds for cement and other types of building blocks and more particularly to a mold including hingedly connected sections for opening and closing the mold together with novel means for effectively locking the mold in its closed position.

An important object of the invention is to provide means for locking one wall of the mold by a wedging action.

A further object of the invention is to provide a mold having a fixed rear wall, hingedly connected side walls and a removable front wall together with an interlocking wedging engagement between the side and front walls whereby both the side and front walls are held in a locked position by a wedging action.

A still further object of the invention is to provide a wedging reinforcement for the central portion of the front wall to brace the same from distortion due to internal pressure in the mold.

Another object of the invention is to provide a mold of this character of simple and practical construction, which is strong and durable, efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a view showing the top of the mold in open position;

Figure 2 is a transverse sectional view showing the top in closed position;

Figure 3 is a top plan view showing the front wall removed and with the top and end walls in open position;

Figure 4 is a view of the removable front wall;

Figure 5 is a view of the supporting table for the mold, and

Figure 6 is a view showing the bottom of the mold.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a table which forms a support for the mold and on the top of which are suitably secured a plurality of cleats and including a pair of wedge shaped end cleats 6 and an intermediate cleat 7.

The mold designated generally at 8 includes a

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removable bottom 9 having a pair of wedge shaped cleats 10 on its underside having inclined outer edges opposing the inclined inner edges of cleats 6.

A pair of posts 11 are secured in an upright position to the rear edge of table 5 and in spaced apart relation with respect to each other and to which a rear wall 12 of the mold is suitably secured.

A pair of side walls 13 are connected to the rear wall 12 for horizontal swinging movement of a conventional type of hinge structure 14, the side walls being formed in their upper edges adjacent the front end thereof with notches 13a. The bottom 9 projects outwardly beyond the side walls 13 so that the side walls swing on top of the bottom 9.

A removable front wall is shown at 15 and is formed with notches 16 in its lower edge adjacent each end thereof and are preferably of a flared construction for interlocking engagement with the notches 13a of side walls 13 to provide a dado or rabbeted interlocking connection between the front wall 15 and side walls 13.

Wedges 17 are suitably secured to the outer surface of the side walls 13 for wedging engagement in the notches 16 and a locking wedge 18 is removably positioned outwardly of front wall 15 for wedging engagement in the notches 13a of the side walls 13.

A reinforcing block 19 is suitably secured on top of table 5 in front of front wall 15 and a reinforcing filler block 20 is positioned between block 19 and the front wall 15 with the opposed edges of blocks 19 and 20 beveled as shown at 21 to provide a wedging action for block 20.

The front wall 15 and block 20 are locked in position by one or more locking pins 22 inserted in aligned openings 23, 24 and 25 respectively in blocks 19, 20 and front wall 15. The outer end of locking pin 22 is bent angularly to form a handle 26 which slides in a notch 27 in a block 28 suitably secured on top of table 5 in front of block 19.

A top 29 for the mold is suitably secured to a handle 30 which is pivoted to the upper ends of posts 11 for swinging in a raising and lowering movement on top of the mold.

The inner surfaces of rear wall 12, front wall 15, one of the side walls 13, and the upper surface of bottom 9 may be provided with ribs 31 arranged to simulate the mortar lines of bricks of a brick column constructed of the blocks formed in the mold.

In the operation of the device, the bottom 9 is

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held stationary on table 5 or other suitable supporting structure by cleats 6 and 10 which properly position bottom 9 to align the ribs forming the mortar joints.

The side walls 13 of the mold are held in a closed position by the interlocking engagement of notches 15 and 16 of the side and front walls, and which is tightened by the wedges 17 and 18. After the cement or other material is placed in the mold the top 29 is lowered to compress or pack the cement therein.

The reinforcing blocks 19 and 20 hold the front wall 15 from distortion due to internal pressure in the mold, and pins 22 lock the block 20 and front wall 15 firmly in position. The pins are locked by swinging handle 26 downwardly between blocks 19 and 28.

The mold is opened after setting of the cement by removing pins 22, removing wedges 18 and 20, sliding front wall 15 forwardly and then removing same whereupon side walls 13 may swing outwardly and then sliding bottom 9 forwardly away from rear wall 12 and lifting bottom 9 from the table with the block thereon and which remains on the bottom until hardened. The cleat 7 supports the center of bottom 9 from sagging when resting on the table.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A mold of the class described including front, rear and side walls and a removable bottom, a support for the mold, and wedge shaped cleats on the support and having interfitting engagement with wedge shaped cleats on the bottom to anchor the mold to the support.

2. A mold of the class described including front, rear and side walls and a removable bot-

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tom, a support holding the rear wall in a fixed upstanding position, said side walls being swingably connected to the rear wall and said front wall and said bottom being removably positioned on the support, means locking the front wall to the front ends of the side walls, at least one of said walls and said bottom having mortar joint simulating ribs on their inner surfaces, and interengaging means carried by the support and the bottom aligning the ribs of the bottom with the ribs of the wall.

3. A mold of the class described including front, rear and side walls and a removable bottom, a support holding the rear wall in a fixed upstanding position, said side walls being swingably connected to the rear wall and said front wall and said bottom being removably positioned on the support, means locking the front wall to the front ends of the side walls, at least one of said walls and said bottom having mortar joint simulating ribs on their inner surfaces, and interengaging means carried by the support and the bottom aligning the ribs of the bottom with the ribs of the wall by a predetermined sliding movement of the bottom on the support.

4. A mold comprising a rear wall, side walls swingably connected to said rear wall, a front wall positioned at the free ends of the side walls, a bottom, said side walls being swingable over said bottom, said front wall engaging said side walls and said bottom to selectively prevent the swinging of the side walls, a support for said mold and wedge shaped cleats on said support interengaging wedge shaped cleats on said bottom to lock the mold on the support.

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