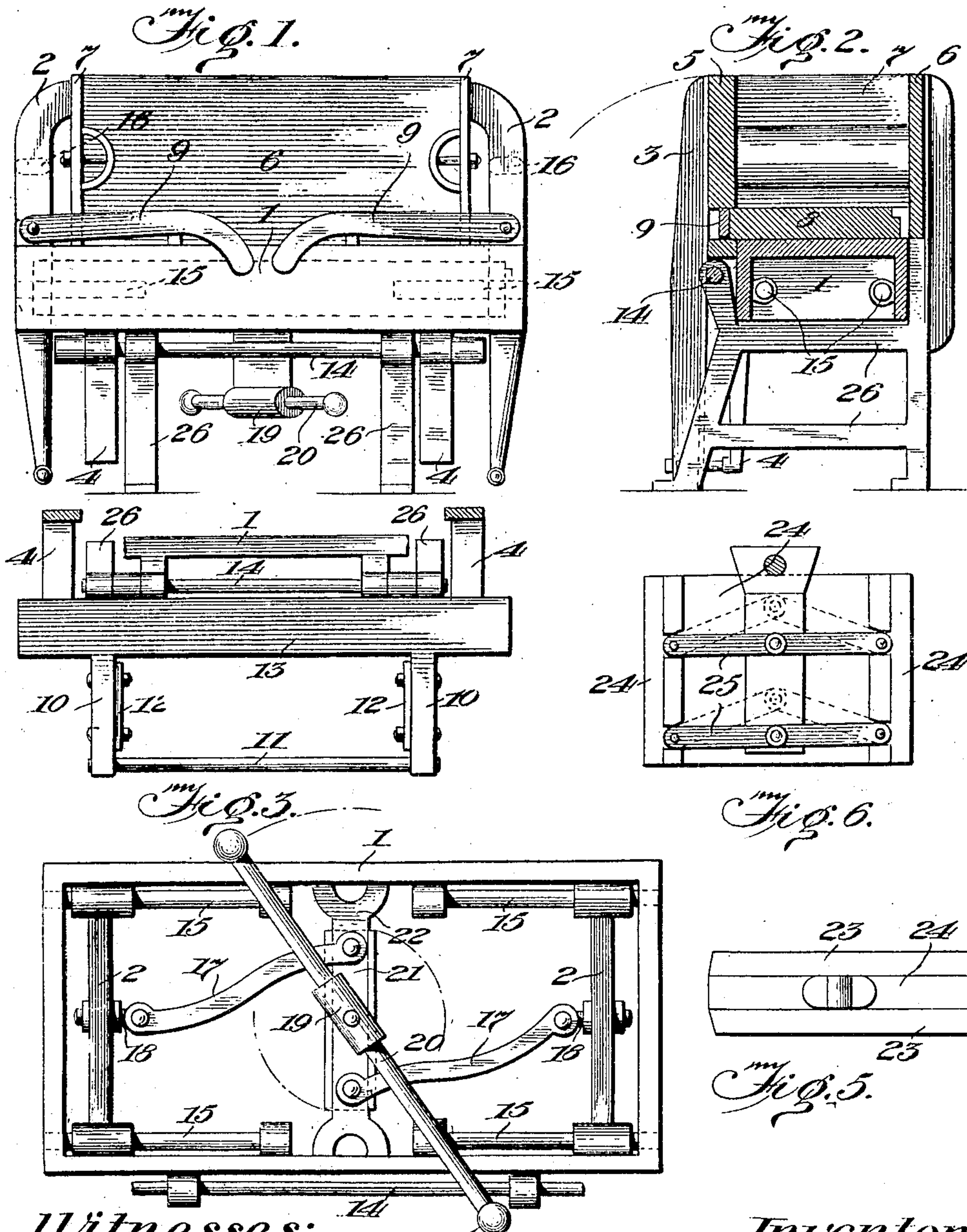


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A. M. HAIGHT.  
CEMENT OR CONCRETE BLOCK MOLD.

APPLICATION FILED JAN. 7, 1907.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

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## CEMENT OR CONCRETE BLOCK MOLD.

No. 882,249.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed January 7, 1907. Serial No. 351,069.

*To all whom it may concern:*

Be it known that I, ARTHUR M. HAIGHT, a citizen of the United States, residing in the city of Jackson, county of Jackson, State of Michigan, have invented certain new and useful Improvements in a Cement or Concrete Block Mold; and I do hereby declare the following to be a full, clear, and exact description of my invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in cement or concrete block molds and my object is to provide a mold efficient and not liable to get out of order, and to provide means for adjusting said mold to produce cement or concrete blocks and provided with certain new and useful features hereinafter more fully described and pointed out in the specifications and claims. I attain these objects by the mechanism illustrated in the accompanying drawings in which

Figure 1 is a vertical side section view of the mold, with the hinged front side removed showing the slidable ends, the palletboard and block movers secured to the movable ends. Fig. 2 is a vertical end view showing the ends of frame and how the mold is held locked while the cement or concrete is being tamped in the mold. Fig. 3 is a top view of the front side of the mold hinged on a horizontal shaft which the block rests on after being turned one quarter way over, with a handle to operate it by, and having adjustable strips. Fig. 4 is a detailed view of the rectangular frame after the rock face plate has been removed showing the oscillating bar having one end of the pitman connected to said bar; the other end connected to the slidable ends of the mold, also showing the shafts secured in brackets, and the handle for operating the slidable ends of the mold. Fig. 5 is a top view of a collapsible core. Fig. 6 is a vertical side view, showing the links connected to a movable center and movable ends for collapsing the core.

Similar figures refer to similar parts throughout the several views.

26 represents the frame, sufficiently strong to resist the pressure to make a cement or concrete block, upon which all the working parts are secured.

1, is the horizontal rectangular frame having four (4) horizontal shafts 15. Secured in brackets to said frame on these shafts 15 are

journalled the slidable arms or ends 2, 2, shown in Fig. 1, side view, Fig. 2 end view, and Fig. 4, top view. 22 is a cross support made integral with the frame 1. 21 is an oscillating plate secured to the cross support 22 by a bolt centrally secured. To the oscillating plate 21, one end of the pitmen 17 are secured. To the other end of the pitmen are secured the arms 2, 2, by eye bolts 18. By this manner of construction, it will be understood the two arms 2, 2, are connected together. These arms 2, 2, form the ends of the mold box.

19 is a hollow chamber made integral with the oscillating plate 21 through which the handle 20 freely passes. By operating the handle as indicated by the dotted lines and arrows, moves the arms 2, 2, outwardly from the center. These arms form the ends of the mold and have the curve plate 7 attached to them which forms a cavity in the end of the block so that when two blocks are laid end to end, they are locked.

9, 9, are the levers journalled on bolts secured one to each arm 2, 2.

When the arms are moved outwardly they carry the levers with them. As the levers 9, 9, are passing outwardly they are drawn over a knob on the rectangular frame 1. This causes them to raise and being underneath the palletboard 5, causes it and the block to move outwardly bringing the block outwardly from the rear plate 6.

The arms 2, 2, have each of them a bar 16 made integral to them for the purpose of operating the mold. In Figs. 1, 2, and 3, are shown the arms 4, operating in conjunction with the arms 2, 2, for locking the mold during the operation of tamping the cement or concrete in the mold box plainly shown in Fig. 2.

13, is the front part of the mold box having brackets on it. Through these brackets and brackets on the frame 26, passes the shaft 14. By this manner of construction, the front side of the mold is hinged and when dropped to a horizontal plane forms a resting place for the palletboard 5, and block. Of this frame 13, the arms 4, form a part. The handle bar 11, is for operating this side of the mold.

12, are two adjustable strips secured to the frame 10 for holding the pallet board 5, tight against the end plates 7, 7.

23 are the sides of a collapsible core.

110



24, is a movable center.

25 is the self locking and unlocking links secured to the center bar and the outer ends.

When the center bar 24, is drawn up as shown by the dotted lines, the center being drawn up relieves itself from the cement or concrete of which the block is made. By this construction, I am able to make a hollow block.

10 The operation of my mold is as follows:—

The mold box being closed, as shown in Fig. 2, the cement or concrete of which the block is made, is put in the mold which is tamped half full, then the collapsible core 15 laid on the cement or concrete in the mold. The mold or box is then filled and tamped firm. The hand holds 16, a part of the arms 2, 2, are grasped. The mold is now turned one quarter way over towards the operator. The handle 20, turned in the 20 direction to move the arms 2, 2, slidable on the four shafts 15, back from the ends of the block. The mold is now unlocked. The front frame 13, is now dropped to a horizontal level being hinged on the shaft 14. 25 This leaves the palletboard 5, resting on the frame 13, with the block on the palletboard

ready to be removed. This same operation may be repeated.

I am aware that prior to my invention, 30 cement block molds have been made. I therefore, do not claim such a combination broadly, but what I do claim as my invention, and desire to secure by Letters Patent is:

35 In a cement or concrete mold, the combination of a frame having two outwardly projecting knobs made integral therewith, a front frame having swinging connection with said frame, a pallet supported on said frame, 40 shafts rigidly connected to said frame, end frames slidably mounted on said shafts, arms connected to said end frames and having slidable action on said knobs, means for reciprocating said end frames and arms, said 45 arms engaging said pallet for the purpose described.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

ARTHUR M. HAIGHT.

Witnesses:

W. M. FULLER,  
L. E. CARSON.