

No. 809,252.

PATENTED JAN. 2, 1906.

F. B. DYSART.  
CEMENT BLOCK MACHINE.  
APPLICATION FILED AUG. 18, 1905.

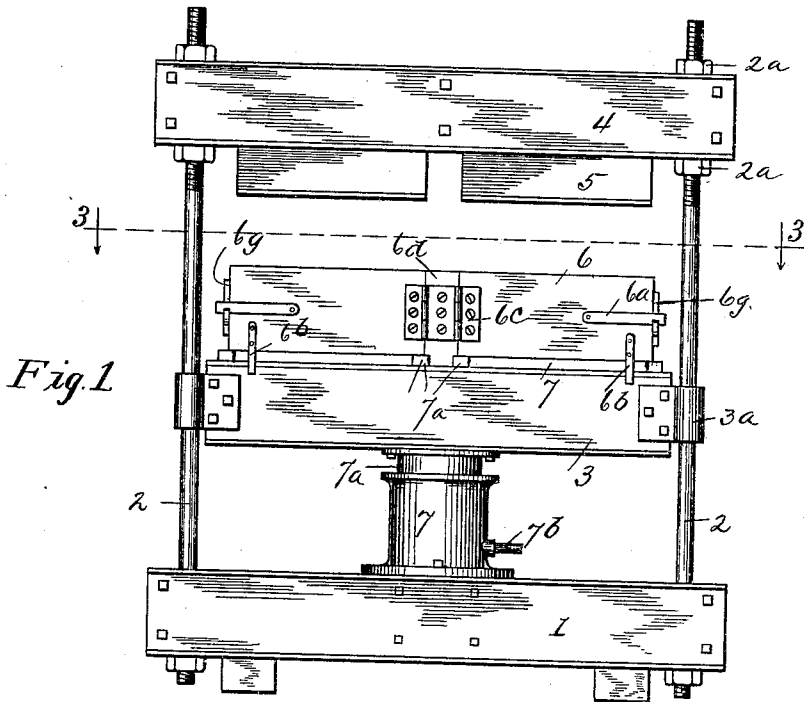


Fig. 1

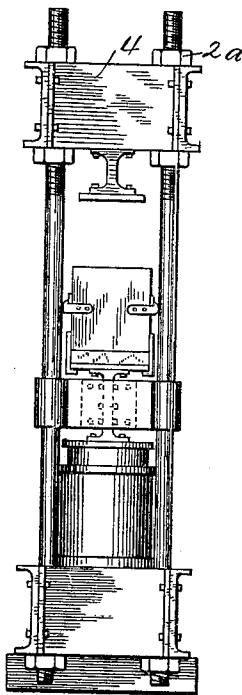


Fig. 2.

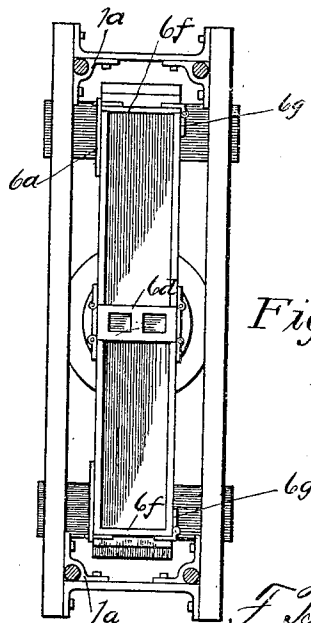


Fig. 3.

Witnesses:

Chas. F. Bennett  
W. A. Miloid

Inventor  
F. B. Dysart

By *Frederic Benjamin*  
Att'y.

# UNITED STATES PATENT OFFICE.

FRED B. DYSART, OF SUPERIOR, NEBRASKA, ASSIGNOR OF TWO-THIRDS  
TO C. E. ADAMS AND A. C. FELT, OF SUPERIOR, NEBRASKA.

## CEMENT-BLOCK MACHINE.

No. 809,252.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed August 18, 1905. Serial No. 274,737.

*To all whom it may concern:*

Be it known that I, FRED B. DYSART, a citizen of the United States, residing at Superior, in the county of Nuckolls and State of Nebraska, have invented certain new and useful Improvements in Cement-Block Machines, of which the following is a specification.

This invention relates to improvements in machines for manufacturing artificial-stone blocks from cement and sand in plastic form; and it consists in certain improvements over the machine described in an application for patent executed on even date herewith.

In the accompanying drawings, which form a part of this application, Figure 1 is a side elevation of the machine complete. Fig. 2 is an end elevation of same, and Fig. 3 is a cross-section on the line 3 3 of Fig. 1.

Referring to the details of the machine, 1 represents a base which is made up of suitable channel-beams extending longitudinally and transversely of the machine and bolted together to form a rigid frame. Secured at the four corners of the base are boxes 1<sup>a</sup>, in which are fitted the upright rods 2. The upper ends of these rods are threaded for a portion of their length and have mounted thereon the nuts 2<sup>a</sup>.

3 represents the bed-plate of the machine, which is preferably made of iron and has secured to its four corners boxes 3<sup>a</sup>, which are adapted to slide on the rods 2. This bed-plate is supported on the upper end of the piston 7<sup>a</sup>, mounted in the cylinder 7 and operated by any suitable motive fluid introduced through the pipe 7<sup>b</sup>. Said cylinder is supported on the base of the machine in any suitable manner.

Mounted on the rods 2 is a top plate or header 4, made up of suitable channel-beams bolted together and provided with boxes at its four corners, through which extend the threaded portions of the shafts 2. Said header rests upon the lower nuts 2<sup>a</sup> and is held in its adjusted position by the upper nuts 2<sup>a</sup>. Bolted to the under side of the top frame 4 are two die-supports 5, to the lower faces of which are bolted the die-plates 5<sup>a</sup>. Secured to the upper side of the bed-plate 3 are guides

7<sup>a</sup>, between which are slidably mounted pallets 7, made of wood and adapted to be removed from the bed-plate with the blocks molded thereon.

Resting on the pallets 7 is a mold-box 6, formed with a central portion 6<sup>d</sup>, to which is hinged the sides of the box by hinges 6<sup>c</sup>. To one of the sides of the mold-box are secured hinges 6<sup>e</sup>, which are also secured to the ends 6<sup>f</sup> of the mold-box, as shown in Fig. 3. To the other sides of the mold-box are pivoted links 6<sup>a</sup>, which are adapted to respectively engage the hooks 6<sup>g</sup> on the ends 6<sup>f</sup> of the box. To the sides of the mold-box are rigidly secured flat metal straps 6<sup>b</sup>, which extend downwardly over the side edges of the pallets 7 and the bed-plate 3 and serve to center the mold-box on the pallet.

A mold-box constructed as described can have its sides opened out on the hinges 6<sup>c</sup> and the ends 6<sup>f</sup> swung around on the hinges 6<sup>e</sup> after the links 6<sup>a</sup> have been disengaged from the hooks 6<sup>g</sup>, thus permitting the pallets to be removed from under the mold-box.

It will be noted that the central portion 6<sup>d</sup> of the mold-box is deeper than the main portion of the box and rests upon the upper surface of the bed-plate. It will also be noted that the ends of the mold-box rest upon the guides 7<sup>a</sup>, thus taking the weight of the mold-boxes from the pallets and permitting the sides and ends of said box to be freely swung around on their hinges.

In operation upon the plunger 7<sup>a</sup> being raised the bed-plate, with the pallets and filled mold-boxes, will be pushed upwardly against the die-plates 5<sup>a</sup>, thus giving the desired pressure and impression to said blocks. When sufficient pressure has been exerted to properly mold the blocks, the bed-plate will descend by the withdrawal of the fluid from the cylinder 7, whereupon the sides and ends of the blocks can be opened out, as above described, and the pallets with the molded blocks removed.

In practice the pallets will extend on opposite sides of the sides of the mold-box, so as to permit them to be readily grasped by the hand without touching the molded blocks.

Having thus described my invention, what

I claim as new, and desire to obtain by Letters Patent, is—

In a cement-block-molding machine, a slidably-mounted bed-plate having supported thereon a mold-box formed with a central portion and provided with sides hinged on  
5 said central portion, also provided with ends hinged to one of said sides of the boxes and means for locking said end pieces on the op-

posite sides of the box, means for centering the mold-box on the bed-plate, and means for operating said bed-plate.

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

FRED B. DYSART

Witnesses:

WM. B. MOORE,

F. BENJAMIN.