

No. 744,970.

PATENTED NOV. 24, 1903.

J. C. MILLER.
BLOCK MOLD.

APPLICATION FILED JULY 22, 1903.

NO MODEL.

Fig. 1.

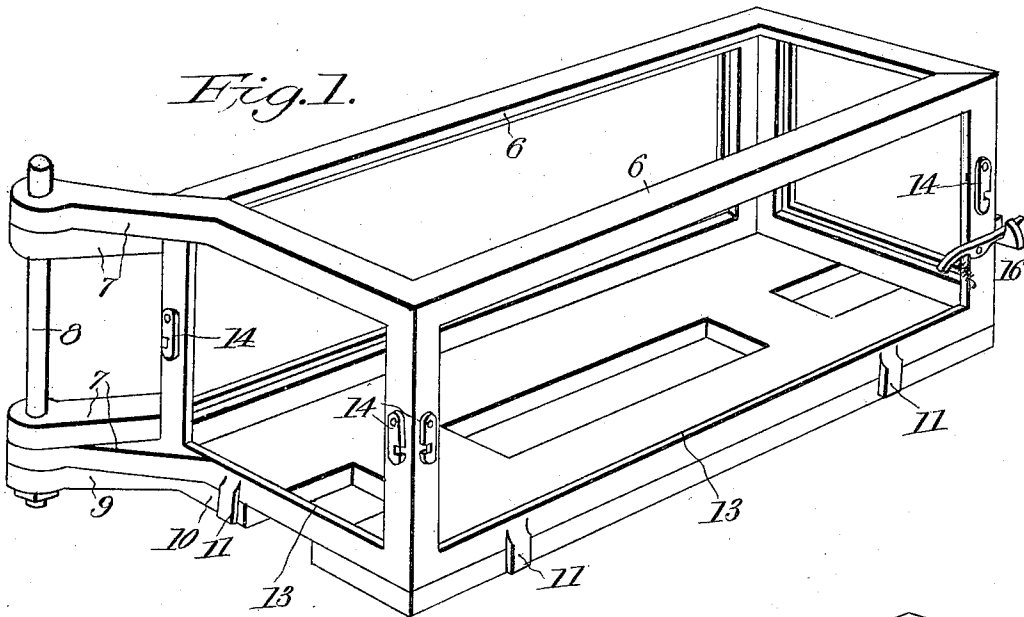


Fig. 3.

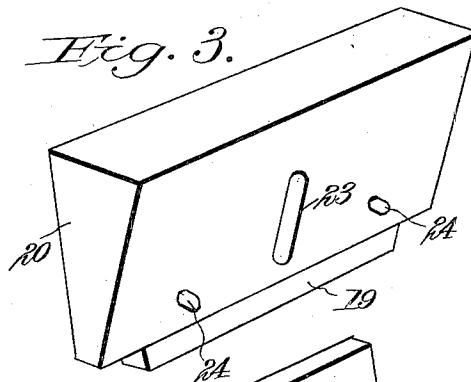


Fig. 2.

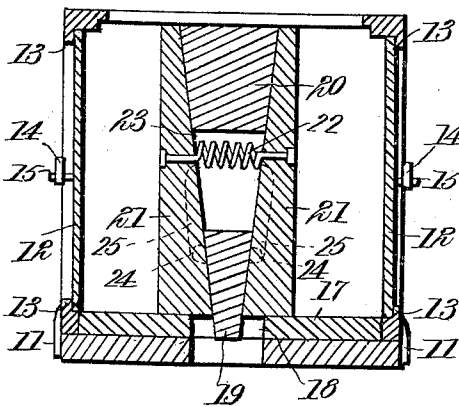
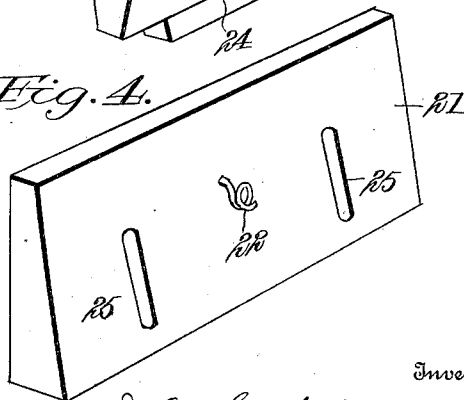


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN C. MILLER, OF JACKSON, MICHIGAN, ASSIGNOR OF ONE-HALF TO
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BLOCK-MOLD.

SPECIFICATION forming part of Letters Patent No. 744,970, dated November 24, 1903.

Application filed July 22, 1903. Serial No. 166,648. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. MILLER, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented new and useful Improvements in Block-Molds, of which the following is a specification.

This invention relates particularly to block-molding machines having separable parts, and is characterized by improvement with respect to a rectangular frame hinged at one of the corners, so that it may be opened to release the block, and with an improved construction with respect to the removable panels which fit in the frame and form the sides of the mold. The construction is further characterized by an improved core so constructed that it may be readily removed from the block.

The article is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the frame with the panels removed. Fig. 2 is a vertical cross-section with the panels and core in place, and Figs. 3 and 4 are respectively perspective views of the core-sections separated.

The frame of the mold consists of two skeleton sections 6 in the form of a parallelogram, whose corners are produced and outlined by the bars of which the frame is made. The frame is divided at diagonally opposite corners, and at one of such corners the parts are hinged together by extended hinges 7, so that the mold will open away from the block at all points. The hinged pintle consists of a bolt 8, fixed to an arm 9, projecting from the bed-plate 10, which fits under the bottom of the frame. Lugs 11 project from the lower bars of the frame and contact with the side edges of the bed-plate when the mold is closed. The skeleton construction of the frame-sections produces openings in which are fitted side and end panels, (indicated at 12,) the bars of the frame being rabbeted, as at 13, to receive the panels. The panels may be patterned as desired to produce fancy or figured blocks. To hold the panels in place, pivoted latches 14 are used, engaging hooks 15 on the outside of the panels. The frame-sections are held closed by a spring-latch 16 at the corner of the frame opposite to the hinge.

A bottom board is indicated at 17, having

a central mortise 18, which receives a tenon 19 on the lower edge of the middle section 20 of the core. The core is formed in three sections—the middle section 20, above mentioned, and two side sections 21. The middle section is wedge-shaped, as shown, with its apex down and fits between the inclined sides of the side sections and acts to permit the side sections to contract or draw together when withdrawn. The side sections are joined by a spring 22, which passes through an elongated slot 23 in the middle section, and the middle section has pins 24 on each side, which fit in grooves 25 in the side sections. This construction enables the core to be removed without disturbing the molded block. In operation the core is fitted in place before the material is put in. To then remove the core, the middle section is lifted to the extent permitted by the slot 23, and when so lifted the spring 22 draws the side sections together, thus detaching them from the molded block. The core may then be lifted out without disturbing the block. The frame is then opened on its hinges and the block removed on the bottom board to dry.

The removable panels permit any desired change in the size or configuration of the block by the substitution of figured or designed panels, as desired.

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

1. In a mold, in combination, skeleton sections hinged together, and removable panels fitting the openings in the sections.

2. In a mold, in combination, a bed-plate, skeleton side sections hinged together and upon the bed-plate, and removable panels fitting the side sections.

3. In a block-mold, in combination, a bed-plate, skeleton side sections having extended hinge members at one corner, pivoted upon the bed-plate, and removable panels fitting the openings in the side sections.

4. The combination with a mold having a bottom board with a mortise therein, of a core comprising side sections, and a wedge-shaped middle section movable between the side sections and having a tenon at the lower end adapted to fit in the mortise.

5. A mold-core comprising side sections

connected by a spring tending to draw them
together, a wedge-shaped middle section mov-
able between said side sections and having
an opening through which the spring extends,
5 and engaging guides on the contacting faces
of the sections.

In testimony whereof I have signed my

name to this specification in the presence of
two subscribing witnesses.

JOHN C. MILLER.

Witnesses:

JAMES H. HUNTINGTON,
GEORGE E. BEEBE.