

No. 710,881.

Patented Oct. 7, 1902.

O. NOLAN.

MOLD.

(Application filed June 4, 1902.)

(No Model.)

2 Sheets—Sheet I.

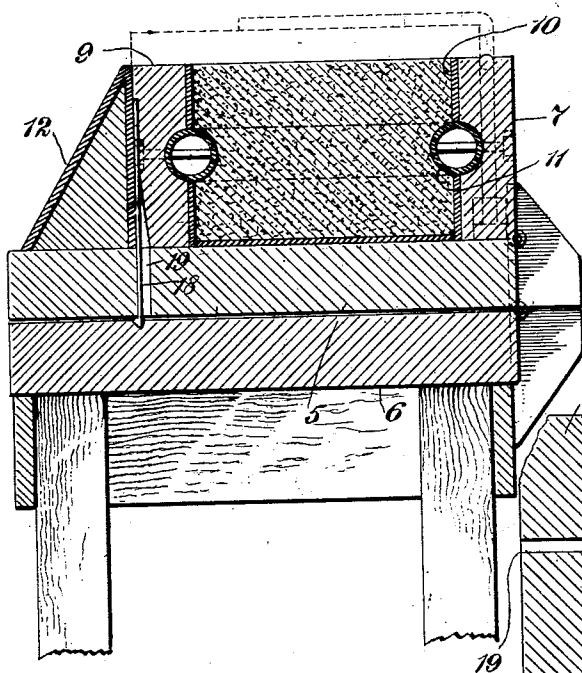
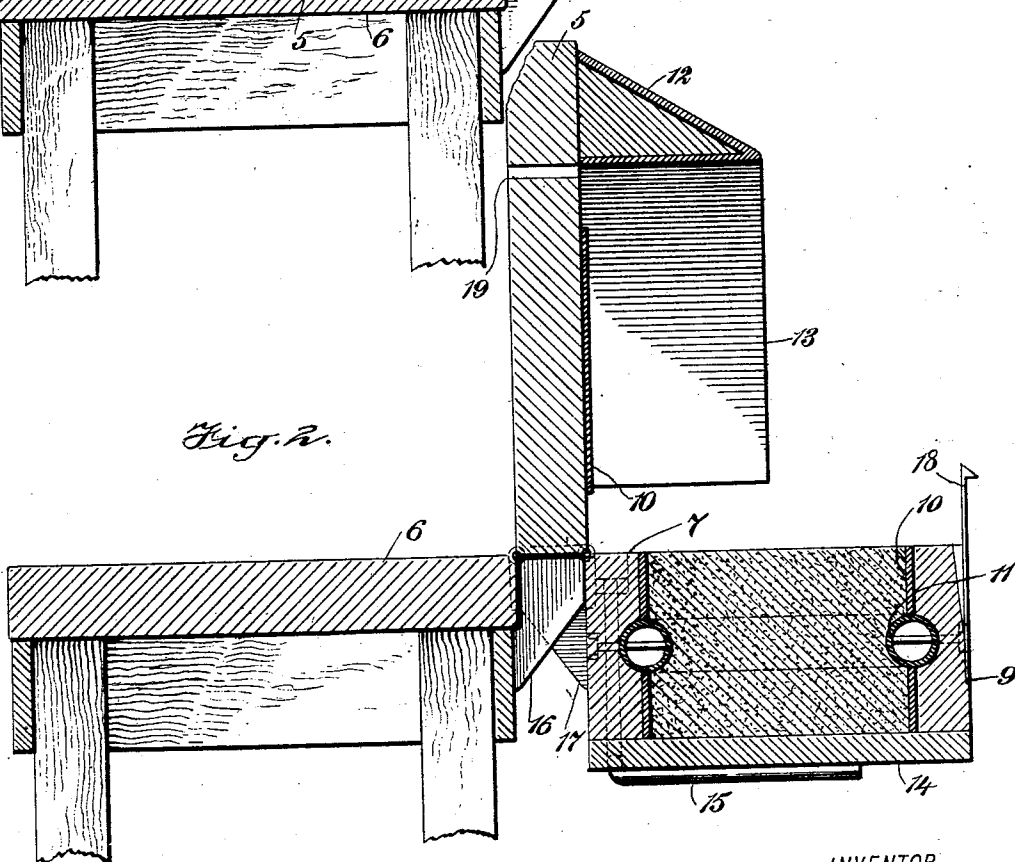


Fig. 1.

Fig. 2.



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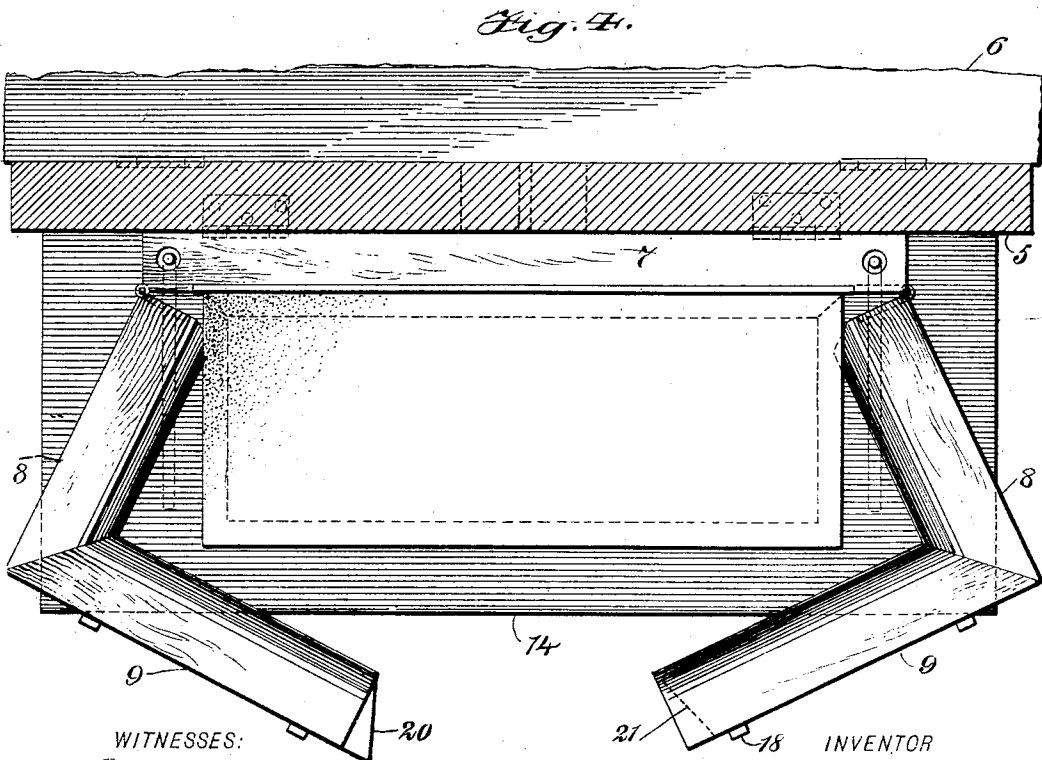
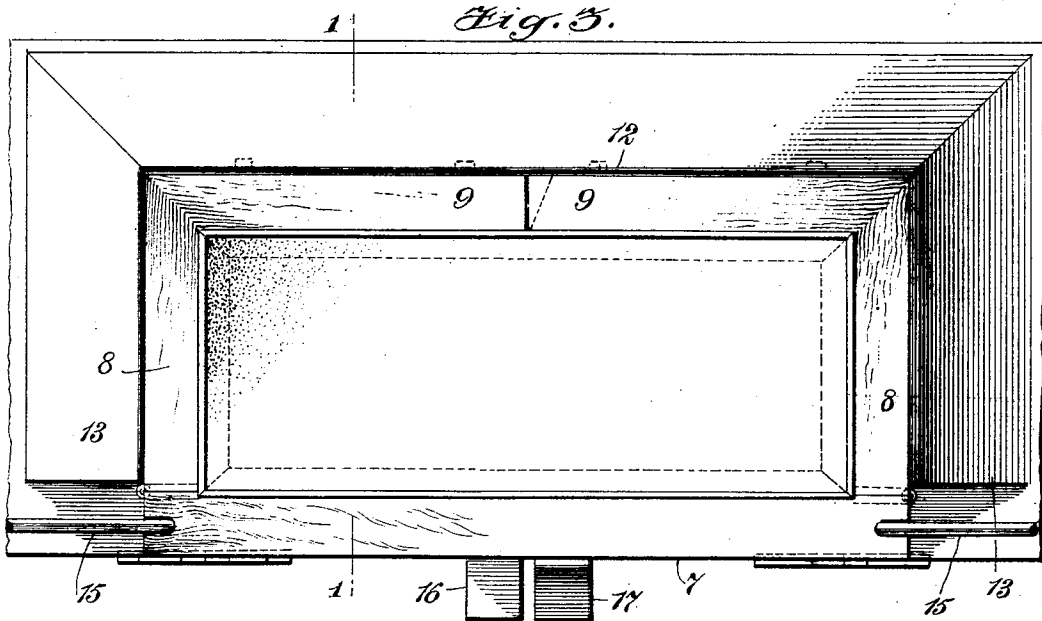
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(Application filed June 4, 1902.)

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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

OLIVER NOLAN, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF ONE-HALF
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MOLD.

SPECIFICATION forming part of Letters Patent No. 710,881, dated October 7, 1902.

Application filed June 4, 1902. Serial No. 110,191. (No model.)

To all whom it may concern:

Be it known that I, OLIVER NOLAN, a citizen of the United States, and a resident of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and Improved Mold, of which the following is a full, clear, and exact description.

This invention relates particularly to improvements in molds for forming artificial building-stone, the object being to provide a mold of simple construction in which the stone may be quickly and uniformly made.

I will describe a mold embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a section on the line 1 1 of Fig. 3 of a mold embodying my invention. Fig. 2 is a cross-section showing the position of parts preparatory to removing a formed stone. Fig. 3 is a plan view, and Fig. 4 shows the position of parts when removing the stone.

Referring to the drawings, 5 designates a bed-plate hinged to the front edge of a bench 6, and hinged to the front edge of this bed-plate 5 is the front board 7 of the mold, while the end boards and inner side boards are formed by angle-pieces 8 9, the parts 8 being hinged to the end of the front board, while the parts 9 are extended at right angles to the parts 8 and are designed when folded, as indicated in Fig. 3, to form the rear wall of the mold. The inner sides of the mold are preferably lined with metal plates 10 to prevent the sticking of the material, and to form a channel around a formed stone I provide inwardly-extended beads 11, which are secured to the inner sides of the several mold-sections—that is, to the front and rear and ends. These beads may be conveniently formed of tubular metal secured by means of bolts.

When in position to receive material to form the stone, the end walls and the inner side walls will be clamped or held in position by means of a back bar 12 and end bars 13, which are secured to the bed-plate 5. After forming the stone and before removing it a

carrying or mold board 14 is placed upon the top of the mold and secured in place by means of swinging arms 15. These swinging arms consist of iron rods mounted to swing in the front board 7 and to engage upon the top of the board 14.

In operation when the parts are in position, as indicated in Figs. 1 and 3, the material for forming the stone is to be placed in the mold and tightly tamped down. Then the mold-board 14 is to be placed in position and locked, as described, after which the mold carrying the stone is to be swung downward to the position indicated in Fig. 2. The downward movement will be limited by a bracket 16, attached to the bench and against which the mold impinges, and also by a bracket 17, attached to the front board of the mold and impinging against the bench. When in the position indicated in Fig. 2, the parts 8 and 9 are to be swung outward, as indicated in Fig. 4. Then the said board 14, with the formed stone thereon, may be removed to a place for drying or setting. In forming a wall of the stone the cement is to be run into the channels formed around the sides and ends of the stone.

To prevent upward or jumping movement of the mold while tamping, spring-catches 18 are attached to the parts 9 and are designed to pass through holes 19 in the board 5 and engage against the under side, as shown in Fig. 1. Each of the parts 9 is provided at its end with a tongue 20 to engage in a groove 21 in the end of the other part 9 to firmly lock the parts together.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A mold comprising a swinging base-plate, a front board mounted to swing on the base-plate, and angle-pieces mounted to swing on the front board, the said angle-pieces forming the end walls and rear side wall of the mold, substantially as specified.

2. A mold comprising a swinging base-plate, a front plate mounted to swing on the base-plate, angle-pieces having swinging connection with the front board and forming the end walls and rear wall of the mold, and inwardly-extended beads extended around the

inner sides of the mold members, substantially as specified.

3. A mold comprising a swinging base-plate, a front plate mounted to swing on the
5 base-plate, angle-pieces mounted to swing on the front board and forming the end walls and rear wall of the mold, a metal lining for the mold, and inwardly-extended beads on the inner side of the mold, substantially as
10 specified.

4. A mold comprising a swinging base-plate, a front board mounted to swing on the base-plate, angle-pieces having swinging connection with the front board and forming the
15 end walls and rear wall of the mold, a moldboard, and swinging devices on the mold for locking the moldboard in position, substantially as specified.

5. A mold comprising a swinging base-

plate, a front board having swinging connection with the base-plate, angle-pieces having
20 swinging connection with the front board and forming the end walls and rear wall of the mold, inwardly-extended beads extended around the inner side of the mold members, 25
arms mounted to swing on the mold, a moldboard adapted to be locked in position by said arms, and upwardly-extended portions on the base-plate for holding the angle-pieces in closed position, substantially as specified. 30

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

OLIVER NOLAN.

Witnesses:

H. L. ENCHES,
R. H. DAY.