No. 875,776. PATENTED JAN. 7, 1908.

G. BURSON.

MACHINE FOR MAKING BRICKS

APPLICATION FILED FEB. 18, 1907.

3 SHEETS—SHEET 1.

FIG. 2.

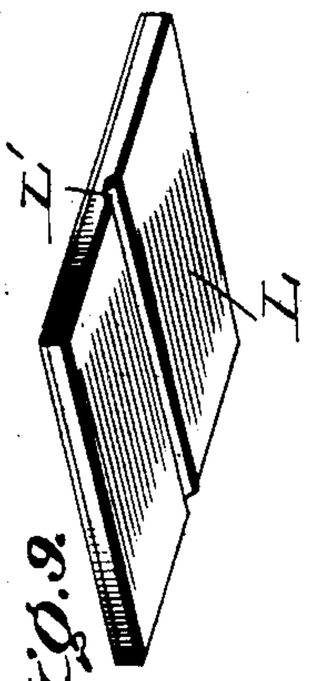

FIG. 1.

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Ava B. Albright.

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3 SHEETS—SHEET 2.

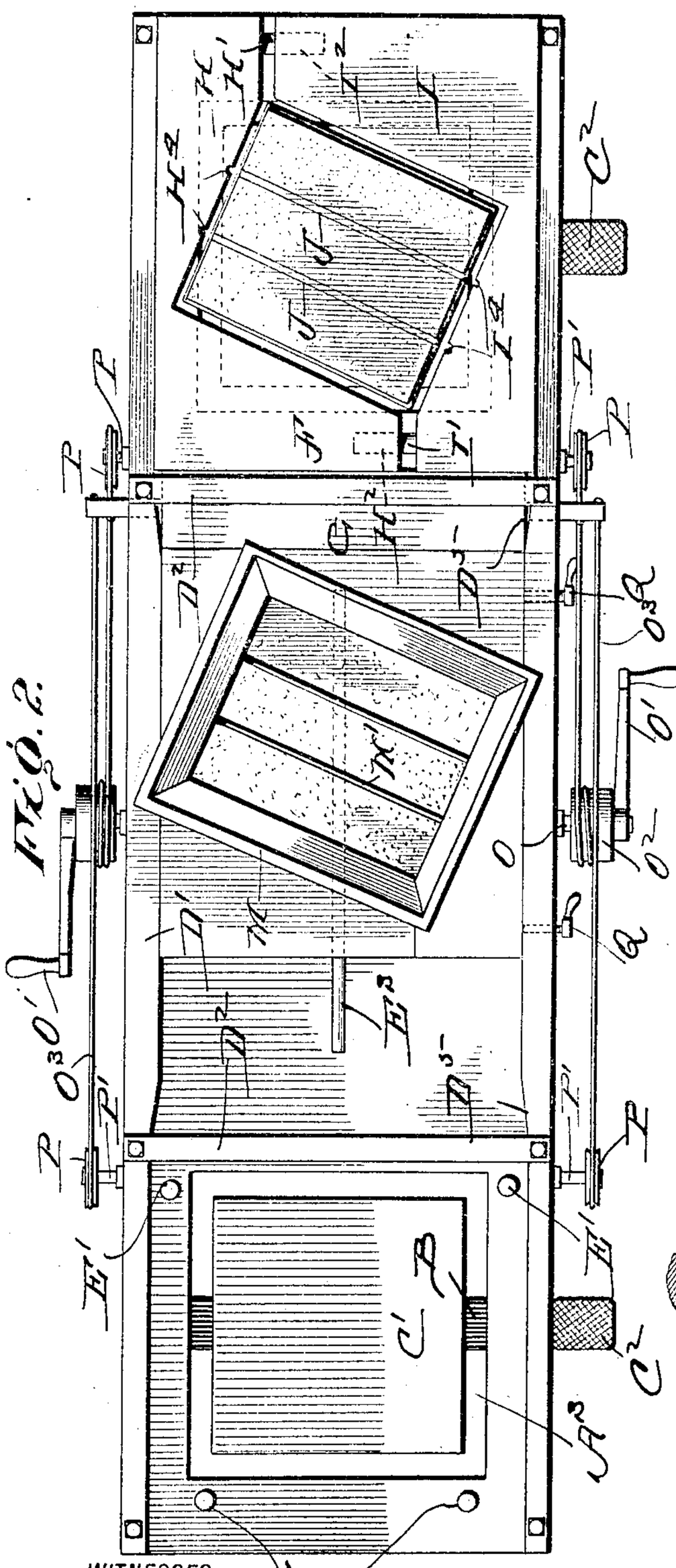

FIG. 2.

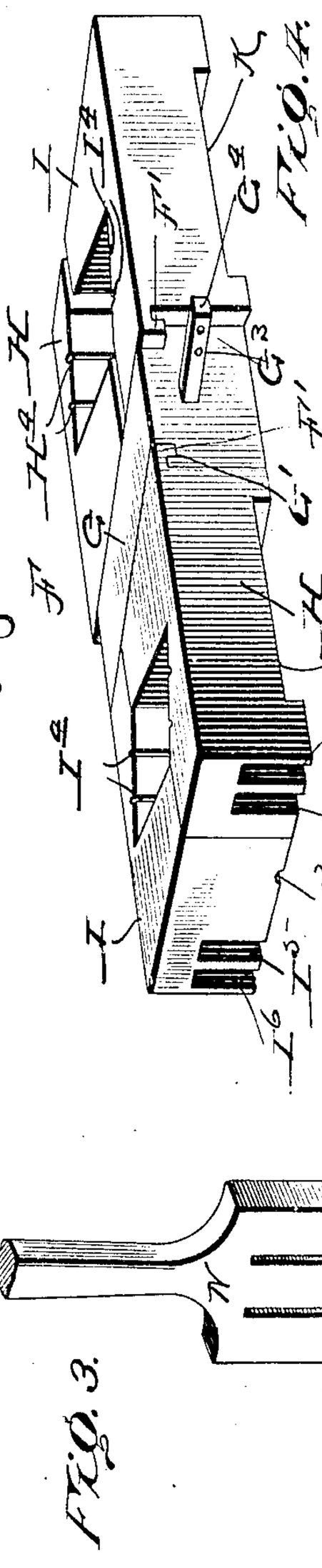

FIG. 4.

FIG. 3.

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3 SHEETS—SHEET 3.

FIG. 5.

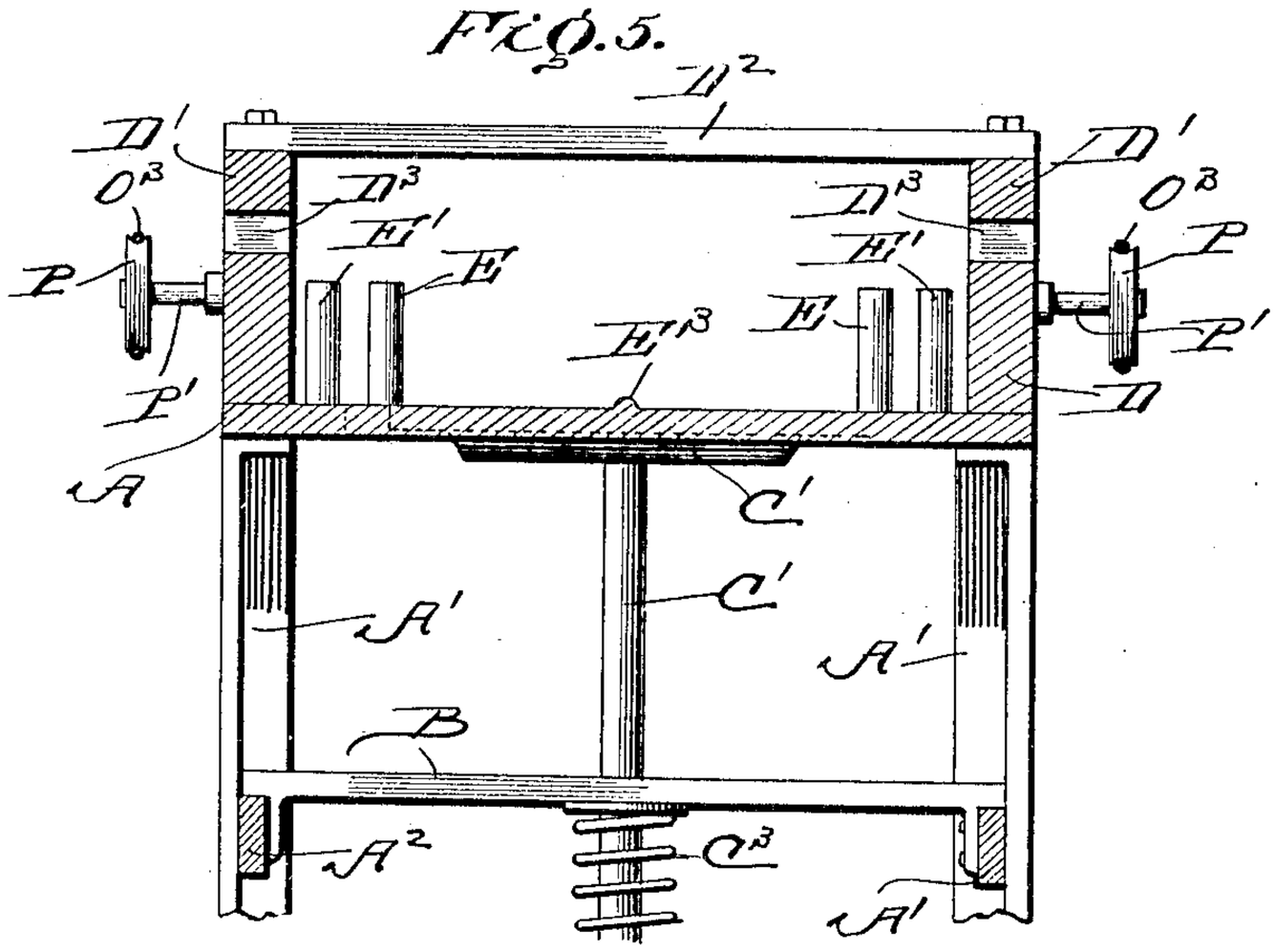


FIG. 6.

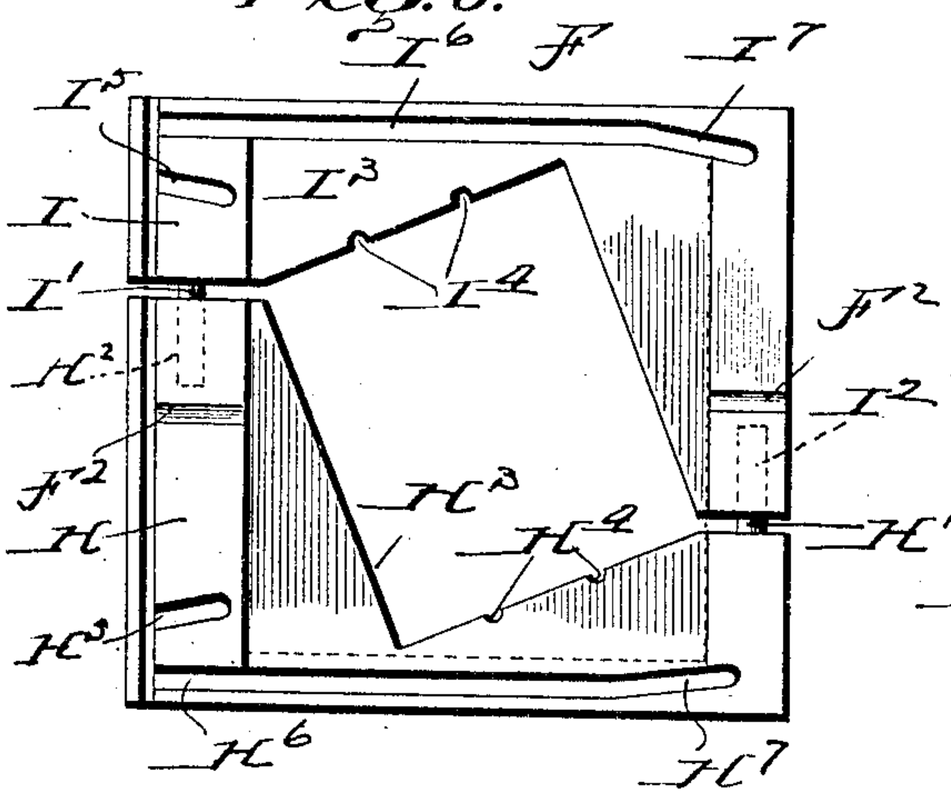


FIG. 7.

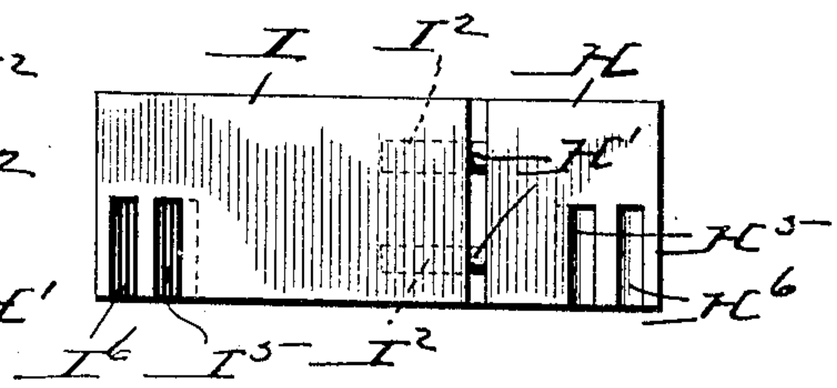
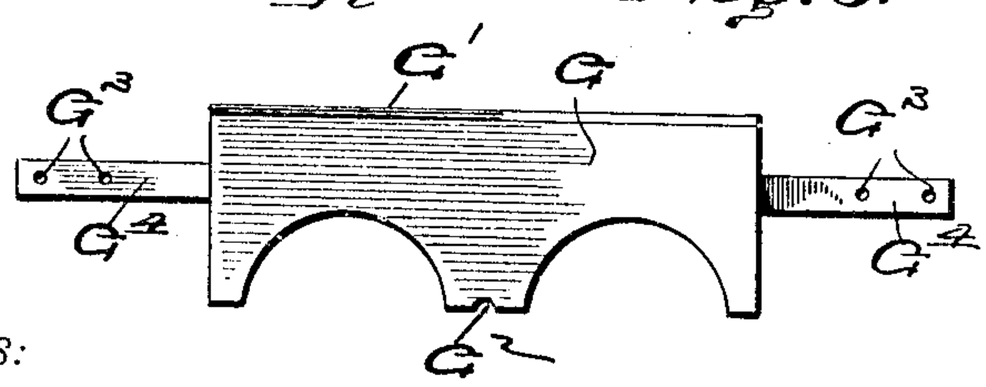


FIG. 8.



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UNITED STATES PATENT OFFICE.

GEORGE BURSON, OF WINAMAC, INDIANA.

MACHINE FOR MAKING BRICKS.

No. 875,776. Specification of Letters Patent. Patented Jan. 7, 1908.

Application filed February 18, 1907. Serial No. 357,988.

To all whom it may concern:

Be it known that I, GEORGE BURSON, a citizen of the United States, residing at Winamac, in the county of Pulaski and State of Indiana, have invented a new and useful Improvement in Machines for Making Bricks, of which the following is a specification.

This invention relates to molds and more particularly to hand machines for making bricks, or blocks, the object being to provide a machine with two reciprocating molds so arranged that one of the molds is being filled while the other is opened and the brick deposited on a drop platform.

Another object of my invention is to provide means for opening the molds as they reach the drop platform and means for closing them when under the hopper.

Another object of my invention is to provide very simple and effective means for reciprocating the molds under the hopper and over the platform.

Another object of my invention is to provide means for dropping the platform so that the bricks can be removed.

With these objects in view, the invention consists of the novel features of construction, hereinafter fully described and pointed out in the claims.

In the drawings forming a part of this specification:—Figure 1 is a side elevational view of the machine. Fig. 2 is a top plan view of the machine. Fig. 3 is a perspective view of the tamper partly broken away. Fig. 4 is a perspective view of the molds and connecting block removed from the machine. Fig. 5 is a transverse sectional view taken on the line *x*—*x* of Fig. 1. Fig. 6 is a plan view of one of the molds. Fig. 7 is an end view of one of the molds. Fig. 8 is an end view of the connecting block, and Fig. 9 is a perspective view of the mold bottom.

Referring to the drawings A, indicates a table mounted on legs A′, connected together by parallel bars A², which are connected together adjacent each end by cross bars B, in which are mounted vertical shafts C, carrying platforms C′, at their upper ends adapted to extend up in square openings A³, formed adjacent each end of the table A. A treadle C², is secured to the end of the shaft and a spring C³, surrounds the shaft C, between the cross bars B, and supports the platform on a line with the top of the table.

Side pieces D, are secured to the table A, provided with a central raised portion D′, connected together by cross-bars D², and provided with longitudinal slots D³. Slots D⁴, are formed in the side pieces adjacent their ends in alinement with the openings A³, in the table A. The central portions of the side pieces extend inwardly and are provided with beveled portions D⁵. The table is provided with upwardly extending pins E, adjacent the end and with pins E′, arranged on each side of the openings A³. A central longitudinal rib E³, is formed on the table A, between the openings A³, all for the purpose hereinafter described.

Mounted on the table are two duplicate molds F, provided with outwardly and downwardly projecting members F′, at one end adapted to fit in a groove G′, formed in a block G, which is provided with a central groove G², adapted to fit over the rib E³. The molds F, consists of oblong blocks formed of two pieces H and I, slidably connected together by dowel pins H′ and I′, fitting in recesses H², I². The pieces are provided with angled notches H³, I³, forming an oblong opening. One wall of each notch is provided with vertical spaced grooves H⁴, I⁴, in which iron dividing plates J, are adapted to fit. Grooves F², are formed longitudinally on the center of the widest side of the bottom of the mold in alinement with the grooves G², of the block G, when closed. The members H and I, are provided with grooves H⁵ I⁵, extending inwardly at an angle in which the pins E, are adapted to pass and open the outer end of the mold. To each side of the groove E, are grooves H⁶, I⁶, which extend along adjacent the side of the member and their rear ends extend inwardly at H⁷, I⁷, at the same angle as the grooves H⁵, I⁵, and in which the pins E′, are adapted to pass, from the grooves H⁶, I⁶, and open the rear end of the mold at the same time the front ends are opened. Transverse grooves K, are formed in the molds in which the bottoms L, are adapted to be inserted, through the slots D⁴, in the side pieces. A groove L′, is formed in the underside of the bottom adapted to register with the grooves in the molds when closed, and these bottoms are adapted to be deposited on the drop platform carrying the dividing plates and bricks with them.

Secured on the raised portion D, is a hopper M, provided with guide bars M′, adapted

to work in the slots N′, of the tamper N, and guide the tamper between the dividing plates of the molds.

A shaft O, is journaled in the middle legs A′ provided with crank-shafts O′, and pulleys O^2, carrying a cable O^3, passing over pulleys P, mounted on stud pins P′, secured to the side piece D, adjacent the raised portion D′, and having their ends secured in the openings G^3, of the arms G^4, extending out through the slot D^3, from the block G, and by means of which the molds are moved back and forth on the table A.

Set-screws Q, are arranged in the side pieces adapted to engage the molds and hold them firmly under the hopper.

From the foregoing description, it will be readily seen that I have provided a simple and effective hand molding machine which is capable of molding double the number of bricks than the molds now in use, as one mold is being filled while the other is depositing its molded bricks on a drop platform and it will also be seen that the molds are opened automatically when they are over the drop platform and are closed automatically when they are under the hopper.

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

1. In a device of the kind described, the combination with a table, of separable molds slidably mounted on said table, removable bottoms arranged in said molds, means arranged on said table for opening and closing said molds, and means for reciprocating said molds, for the purpose described.

2. In a device of the kind described, the combination with a table provided with openings adjacent each end, of spring actuated platforms arranged in said openings, separable molds mounted on said table, slots formed in said molds, pins arranged on said table and means connected to said molds for throwing said molds into engagement with said pins, for the purpose described.

3. In a device of the kind described, the combination with a table carrying a hopper, of separable molds arranged on said table, a shaft mounted on said table carrying pulleys and crank arms, pulleys arranged on said table, and a cable connected to the molds passing around said pulleys, for the purpose described.

4. In a device of the kind described, the combination with a table provided with spring actuated platforms, of separable molds arranged on said table, means for reciprocating said molds, means for separating said molds over said platform and means for operating said platforms, for the purpose described.

5. In a device of the kind described, the combination with a table provided with spring actuated platforms, adjacent each end, of separable molds slidably mounted on said table, removable bottoms arranged in said molds, dividing plates secured in said molds, means carried by the table for opening and closing said molds, and means for operating said platforms, for the purpose described.

6. In a device of the kind described, the combination with a table, of side pieces arranged on said table, slots formed in said side pieces, arms carried by a block mounted in said slots, molds connected to said block, and means connected to said arms for operating said molds, for the purpose described.

7. In a device of the kind described, the combination with a table provided with a hopper, of side pieces connected to said table, slots formed in said side pieces, a block mounted on said table provided with arms extending out through said slots, molds connected to each end of said blocks, and a cable connected to said arms for operating said molds for the purpose described.

GEORGE BURSON.

Witnesses:
GEO. SHORTER,
GEO. L. BURSON.