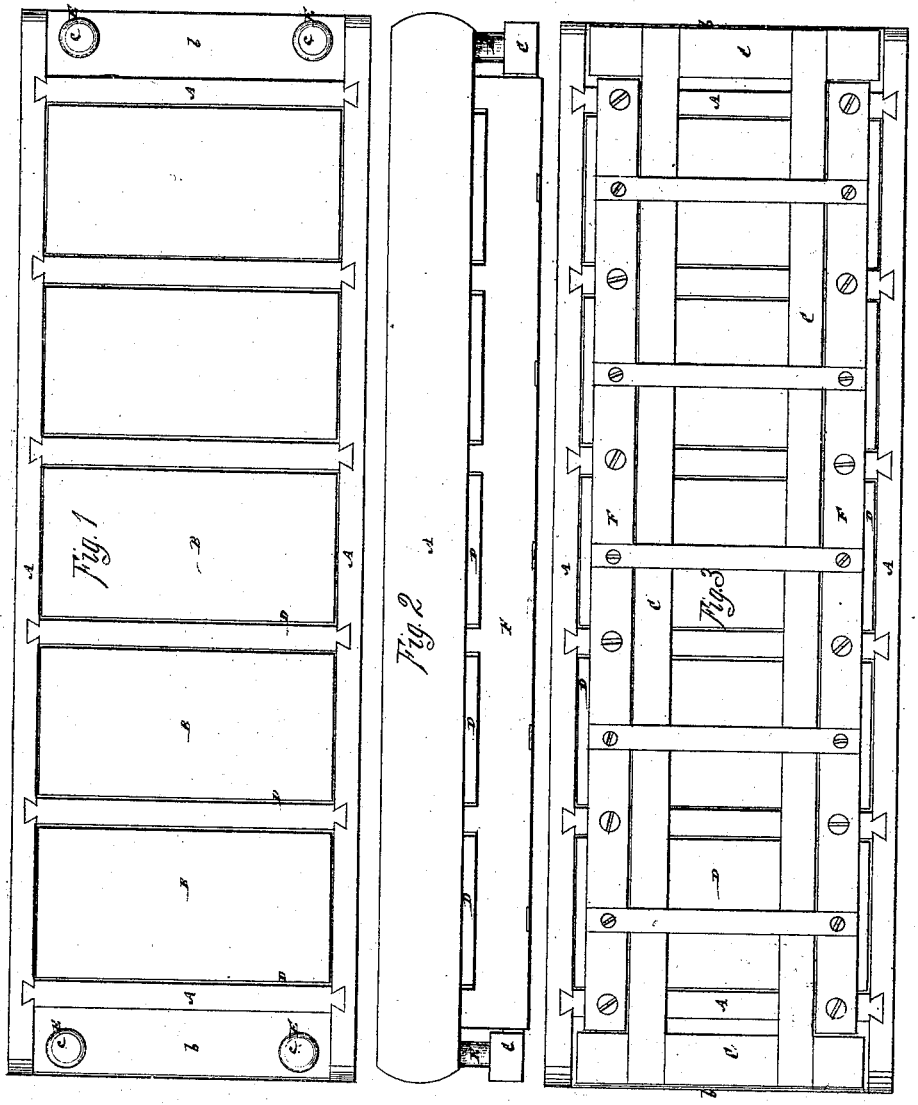
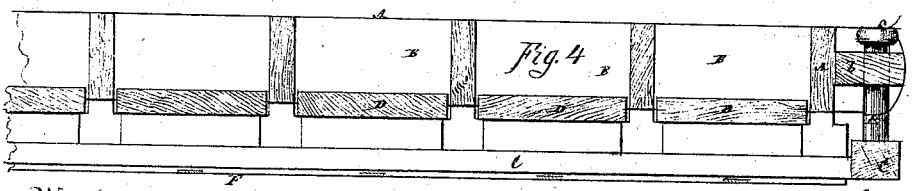
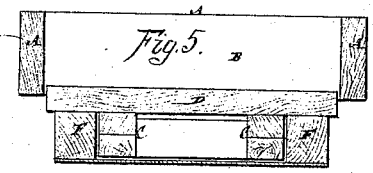
H. MARTIN.

BRICK AND OTHER MOLDS.

No. 113,540. Patented Apr. 11, 1871.







Witnesses
Fred. Haynes
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Henry Martin

United States Patent Office.

HENRY MARTIN, OF BROOKLYN, NEW YORK.

Letters Patent No. 113,540, dated April 11, 1871.

IMPROVEMENT IN BRICK AND OTHER MOLDS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, HENRY MARTIN, of Brooklyn, in the county of Kings and State of New York, have invented a certain new and useful Improvement in Brick and other Molds, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a top view or plan of a mold or frame, comprising a series of molds, constructed in accordance with my invention;

Figure 2, a side view of the same;

Figure 3, an inverted plan thereof; and

Figures 4 and 5, longitudinal and transverse sections.

Similar letters of reference indicate corresponding parts.

While applicable to molding various articles or materials, it will suffice here to refer to my improved mold as used for making brick, and this more particularly in machines for such purpose, although the same, but preferably with a less number of molds, chambers or compartments in it may be used for making brick by hand.

The invention comprises a plunger-frame having one or more plungers, provided with feet or stops, in combination with a mold-frame having one or more molding-chambers, for reverse operation of the device as a whole as regards the side or surface made uppermost in molding and discharging the work, and whereby, in discharging the molded article, the mold is lifted from it, and the plunger made to occupy a stationary position, which prevents injury to said article when soft.

Referring to the accompanying drawing—

A represents the frame of a mold of a convenient size for making brick by machinery, the same being provided with a series of molding-chambers, B, and formed with a handle, *b*, at either end.

The mold-chambers B are open top and bottom, and have arranged within them, entering from below, movable mold-bottoms or plungers D.

These plungers are carried by a frame, C, disposed below the mold-frame A, and provided with feet or stops E, which, when the whole mold is inverted, rest at their ends *c* on the delivery-table or surface for the discharged brick, thereby relieving the plungers from weight or pressure on the soft brick in the molds, and so that, by bearing down on said plunger-frame C and lifting by the handles *b* on the mold-frame A, the brick is discharged by the sliding of the molds B up over it, or is started from the molds, from which it is afterward easily dropped or shaken out; hence it is not absolutely necessary that the stroke of the mold-frame relatively to the plunger-frame should be fully equal to the depth of the molds.

This mode of starting or discharging the brick from the molds is preferable to expelling it by movable plungers, which cannot operate with the brick resting on the delivery surface or table, as is here the case, and whereby the brick, especially when very soft, is prevented from being injured, the bricks not having to drop when being started, but resting flat on the delivery-table, and being in themselves stationary, while the molds move or are lifted from them.

The feet or stops E of the mold-frame not only prevent the weight of the plungers and their frame from coming on the brick when the whole mold is inverted on or over the delivery-table, but they may also act as guides to the frame or frames by arranging them, if desirable, to pass through the handles *b* of the mold-frame.

F is a secondary frame secured to the under side of the mold-frame A, and serving alike to support the whole mold when sliding it, with its top uppermost, over the bed of the machine under the filling or pressing devices, and to carry the load, by the resting of the plungers D on it, when forcing the clay into the molds. This frame F is so arranged in relation to the mold-frame A that when the plungers D are at the extreme back ends of the molds they project beyond the mold-frame, so that when the whole mold is inverted to discharge the brick clearance is provided for the escape of dirt passing through the molds from below.

What is here claimed, and desired to be secured by Letters Patent, is—

The feet or stops E, in combination with the plunger-frame C and mold-frame A, essentially as and for the purpose specified.

HENRY MARTIN.

Witnesses:

FRED. HAYNES,

R. E. RABEAU.