S. W. BABCOOK.

MACHINE FOR SANDING BRICK-MOLDS.

No. 191,018. Patented May 22, 1877.

Fig. 1

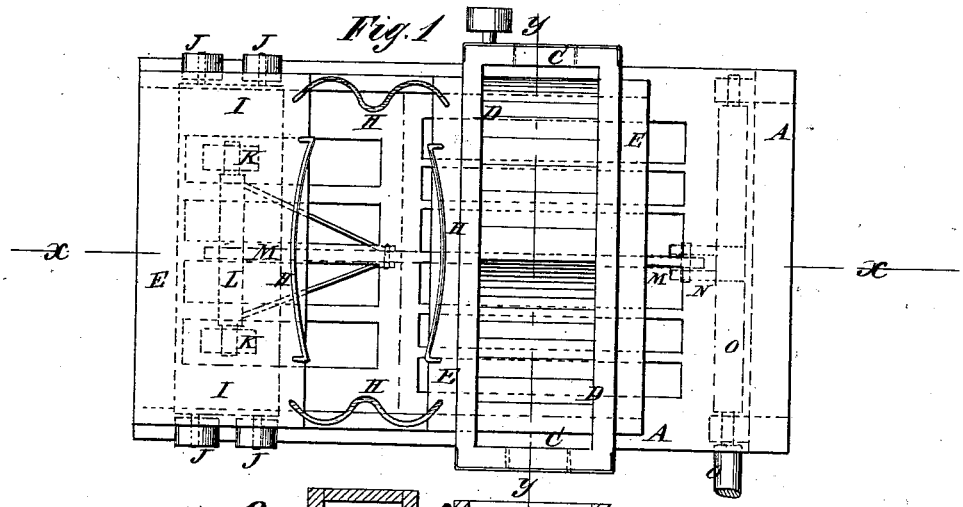


Fig. 2

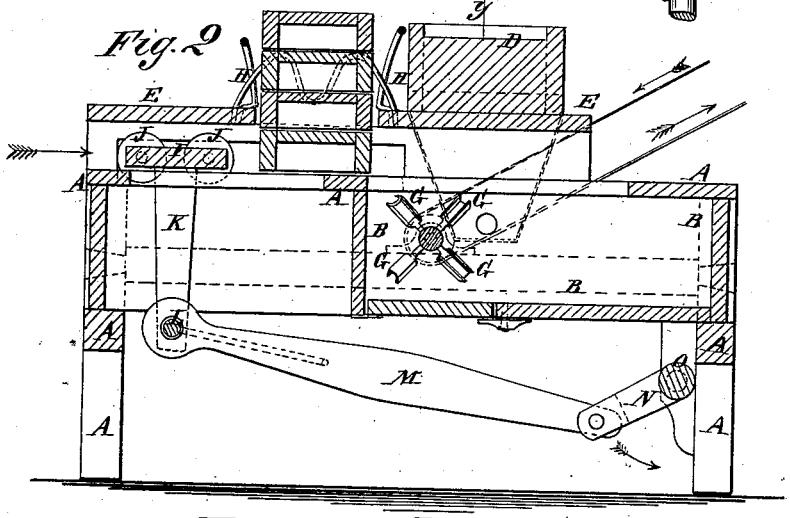
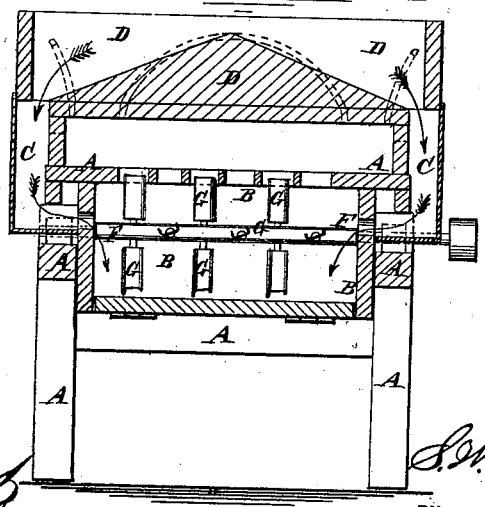


Fig. 3



WITNESSES:

A. W. Almquist

John Goepel

INVENTOR:

S. W. Babcook

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

SAMUEL W. BABCOOK, OF HAVERSTRAW, NEW YORK.

IMPROVEMENT IN MACHINES FOR SANDING BRICK-MOLDS.

Specification forming part of Letters Patent No. **191,018**, dated May 22, 1877; application filed September 2, 1876.

To all whom it may concern:

Be it known that I, SAMUEL W. BABCOOK, of Haverstraw, county of Rockland and State of New York, have invented a new and Improved Machine for Sanding Brick-Molds, of which the following is a specification:

Figure 1 is a top view of my improved machine. Fig. 2 is a vertical longitudinal section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a vertical cross-section of the same, taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for sanding brick-molds, to prevent the clay from sticking to them, and which shall be simple in construction, convenient in use, and effective in operation.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

A represents the frame of the machine, in the forward part of which is formed a box, B, to receive the sand. The sand enters the box B, through holes in its sides, from spouts C, passing down at the sides of the table H from the hopper D. The hopper D stands upon the platform E, and its bottom inclines from the center toward its ends, so that the sand may flow into the spouts C freely. The platform E is made of such a height that the molds can readily slide along the top of the tables A beneath it. F is a shaft that passes through the rear part of the sand-box B, and revolves in bearings attached to the frame A.

To the shaft F are attached rows of paddles G, the different rows being set at a different lateral inclination. The shaft F is revolved by a belt passing around a pulley attached to its end, and as it revolves the paddles G take the sand from the box B, and project it through the slotted top of the table A into the inverted molds standing upon said table beneath the platform E. In the platform E, at the rear side of the hopper D, is formed an opening of sufficient size to receive a mold, and which is surrounded by inclined guides H, to guide the molds into proper position as they pass into the opening in the platform E. Upon the rear part of the table A is placed a block, I, a little smaller than a mold, and having two wheels, J, pivoted to each end, which roll along a way formed for them upon the sides of the table A.

To the block I are attached two arms, K, which pass down through slots in the table A. The lower ends of the arms K are connected by a bar, L, to which is pivoted one end of a connecting-rod, M, the other end of which is pivoted to the end of an arm, N. The arm N is rigidly attached to a shaft, O, which rocks in bearings attached to the frame B. The rock-shaft O is designed to be connected with the lever that pushes out the filled molds from the brick-press, so that as each filled mold is pushed out of the press the block I may be drawn forward, pushing forward the lowest mold of the pile to be sanded, and pushing forward the sanded mold to be placed in the press. If desired, a paddle may be placed in the forward part of the sand-box B, and worked from the shaft O, to push back the sand toward the paddles G as it falls from the molds. Slides may also be placed in the spouts C and worked from the shaft O, to regulate the passage of the sand to the box B, so that it may always be kept at about the same depth in said box. The sand may be removed from the box B, when desired, through a door, B′, in its bottom.

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

1. The combination, with slotted table A, box B, spouts C, bottom-inclined hopper D, and platform E, of the push-block I, provided with mechanism K L M N O, as shown and described.

2. The combination of the slotted mold-table A and a sand-box shaft, F, having paddles that pass during their rotations into said slots, as and for the purpose set forth.

3. The hopper D having its bottom inclined from the middle to a hole on each side, and connected by spouts C with the apertured sand-box B, to enable the sand to flow automatically from the former into the latter, as specified.

SAMUEL W. BABCOOK.

Witnesses:
JNO. HODGES,
GEO. S. WOOD.