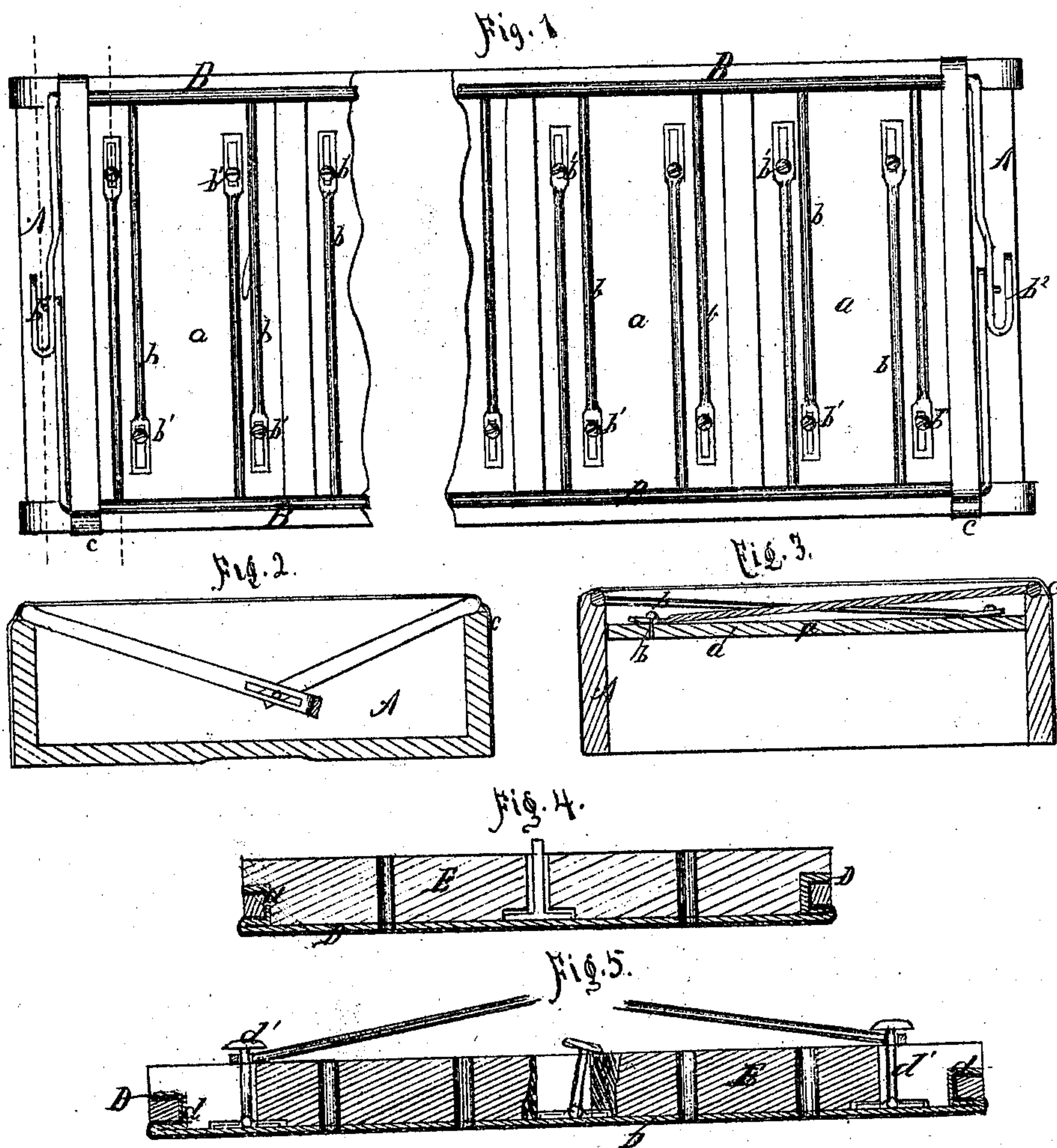


Shuman,
Erick Mold.
No. 97,297. Patented Nov. 30. 1869.



Witnesses
Fred. Thomas
E. A. Clarkson.

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STEPHEN INMAN, OF ROCKFORD, ILLINOIS.

Letters Patent No. 97,297, dated November 30, 1869.

IMPROVEMENT IN BRICK-MOULDS.

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, STEPHEN INMAN, of Rockford, in the county of Winnebago, and State of Illinois, have invented a new and useful Improvement in Brick-Mould; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to that class of brick-moulds which is provided with followers in its divisions, operated by means of levers; and

It consists mainly in the combination of longitudinal turning rods, with transverse bars, by means of which the followers are operated.

It further consists, also, in the construction of the followers employed.

The details of construction and manner of operation will be fully described hereinafter.

In the drawings—

Figure 1 is a plan view of my invention.

Figure 2, a sectional elevation through line *x x*.

Figure 3, a sectional elevation through line *y y*.

Figures 4 and 5 are views of the follower.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and operation.

A represents a brick-mould of the ordinary construction, which is provided with the loose bottoms or followers *a a a*, fitting snugly into its divisions, as shown in figs. 1 and 3.

To operate these followers, I attach to their lower sides, at each end, the rods *b b*, having slotted ends, as shown, which are secured in place by the headed pin *b'*.

These rods extend transversely across the mould, and are rigidly attached to the longitudinal bars or rods *B B* on each side, which latter are held in place by bands *c c c*, as shown in figs. 2, 3, and 4.

The ends of the rods *B B* are bent and united, to form the handles *b''*, the attachment between the two being such as to permit the necessary play when the handles are depressed.

Other methods of attaching the rods *b b* to the bottoms may be employed. A different form is shown in figs. 2 and 3, in which the rods are rigidly attached to vibrating pins.

The arrangement of the rods *B B* may also be varied, if desired. A single rod may be used, placed in the centre of the mould, and operated by a lever.

In figs. 2 and 3 is shown a detached view of my improved follower.

D represents a perforated metallic plate, with a flange, *d*, which is covered with cloth, or other suitable material, and provided with leather on its edges.

E represents a wooden back, which is perforated, to correspond with the plate D, and slotted, to permit the movement of the vibrating pins *d'*. This backing E is attached to the plate D by means of the T-shaped pin in the centre of the plate, which projects through the backing, and is turned across the opening.

The operation of my improved brick-mould is as follows:

It is first placed in the machine and filled, in the ordinary manner. It is then removed to the ground, and turned over. The hands of the operator are now guided over the levers and the cleats at the ends of the mould, and, as the latter is lifted, the handles *b''* are depressed, and through the medium of the rods *B b*, the bricks are simultaneously expelled from the mould.

By this apparatus, I am enabled to use harder clay and obtain better brick with perfect edges.

With the ordinary mould, it often happens, that when one brick is loosened from the mould, another adheres, and the falling brick is consequently injured in shape.

By making my improved follower of metal and wood combined, I obtain the strength of the wood to support the metal plate, while the latter does not expand and interfere with the proper working of mould, as the wood is liable to do. The leather upon the edge forms a suitable packing.

Having thus fully described my invention,

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

1. The combination of the longitudinal turning-rods *B* with the transverse rods *b b*, when operated as described, for the purpose set forth.

2. The combination of the mould A, followers *a a a*, rods *b b B B*, and handles *b''*, in the manner described, for the purpose set forth.

3. The follower described, consisting of the face D, with vibrating pins *d'*, in combination with the slotted backing E, as described, for the purpose set forth.

This specification signed and witnessed, this 25th day of September, 1869.

STEPHEN INMAN.

Witnesses:

G. W. FORD,

CHARLES S. FORD.