J. F. Clark,

Brick Press.

No. 110,113. Patented Dec. 13. 1870.

Fig. 1.

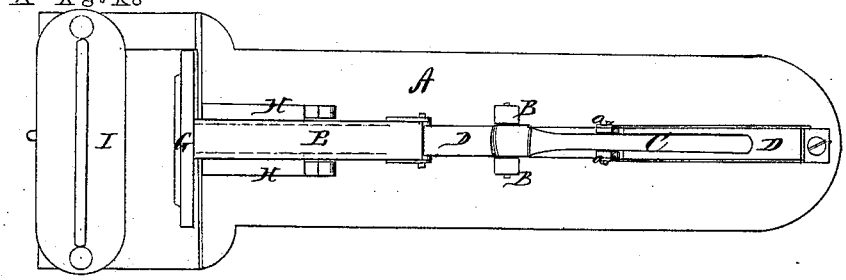
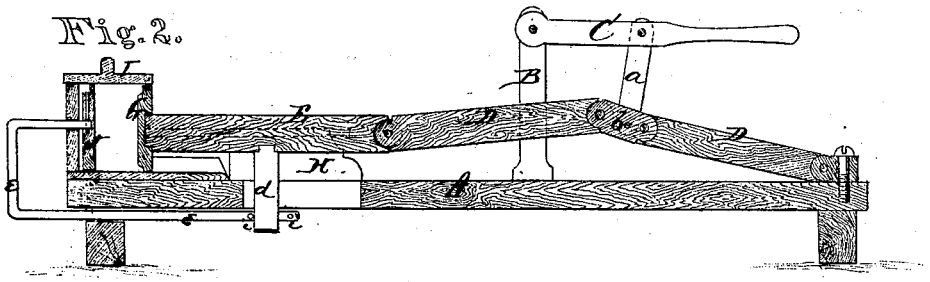


Fig. 2.



Witnesses:
Chas Kenyon.
Frank B. Curtis

Inventor.
J. F. Clark
Chipman Thomas & Co
attys.

United States Patent Office.

JAMES F. CLARK, OF MORENCI, MICHIGAN.

Letters Patent No. 110,113, dated December 13, 1870.

IMPROVEMENT IN BRICK-PRESSES.

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, JAMES F. CLARK, of Morenci, in the county of Lenawee and State of Michigan, have invented a new and valuable Improvement in Brick-Presses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my brick-press in plan view, and

Figure 2 is a longitudinal vertical section of the same.

The nature of my invention consists in the construction and arrangement of a brick-press for pressing the bricks after they have been molded and partly dried in the yard; and

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

A represents the bed of my machine, at a suitable point on which are two posts or standards, B B.

Between the upper ends of these posts is pivoted the hand-lever C, by means of which the press is operated.

From the lever C, on each side, a bar, *a*, extends down to a toggle-joint, *b*, in the center of a lever, D, which, at one end, is pivoted or hinged to the end of the bed A, then passing between the posts B B; the other end of said lever is hinged or pivoted to a plunger-rod or beam E.

This rod or beam E, which, at its other end, is provided with the plunger G, moves horizontally between two guide-blocks, H H, placed on the bed A, said blocks being provided with lips or tongues on their inner sides, which project into grooves in the sides of the beam.

When the jointed lever D is pressed down on the bed A, the plunger G just enters the mouth of a box, I, of the size of one brick, placed on the other end of the bed.

In addition to its stationary back, the box I is provided with a movable back, J, which is operated by a bent rod, *e*, connected with a post, *d*, extending from the beam E through a longitudinal slot in the bed A, as shown in fig. 2.

It will thus be seen that the plunger G being moved back and forth by means of the levers C D, the movable back J moves also in the same direction, but the plunger moves a trifle farther, or else the brick would not be pressed. This is accomplished by passing the rod *e* through the post *d* loosely, and inserting a pin, *i*, through the rod *e* on each side and a short distance from the post. It will then be understood that, if a partially-dried brick is inserted between the plunger G and the back J, and then moved into the box I, the back J will stop while the plunger has yet a short distance to move, and it is just then that the brick is pressed.

Having thus fully described my invention,

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

1. The grooved beam E and plunger G, moving between the guides H H, and operating in combination with the post *d*, rod *e*, pins *i i*, movable back J, and box I, substantially as and for the purposes herein set forth.

2. The combination of the bed A, posts B B, levers C D, joint *b*, beam E, plunger G, guides H H, box I, and movable back J, all constructed and arranged to operate substantially as and for the purposes herein set forth.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

JAMES F. CLARK.

Witnesses:

JOHN ALLEN,

WM. V. F. BLAIN.