

A. J. KNISELY.

Improvement in Brick-Presses.

No. 131,353.

Patented Sep. 17, 1872.

Fig. 1

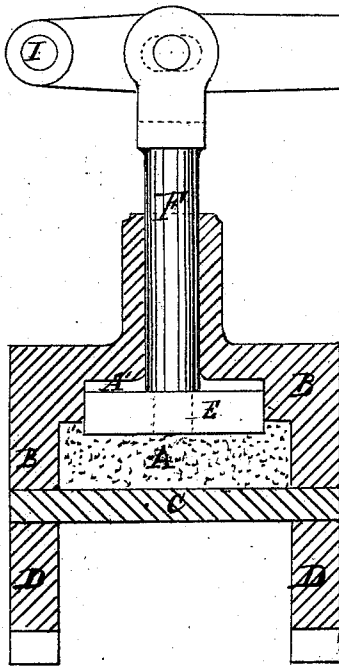


Fig. 2

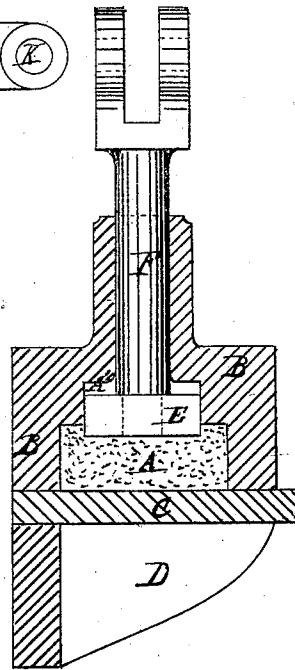
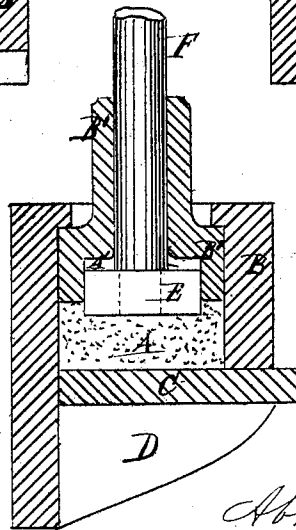


Fig. 3



Witnesses:

Wm H Lotz
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Inventor:

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UNITED STATES PATENT OFFICE.

ABRAHAM J. KNISELY, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN BRICK-PRESSES.

Specification forming part of Letters Patent No. **131,353**, dated September 17, 1872; antedated September 14, 1872.

To all whom it may concern:

Be it known that I, ABRAHAM J. KNISELY, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Brick-Press; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a vertical longitudinal section of my improved press. Fig. 2 is a cross-section of the same; and Fig. 3 is a cross-section of a modification thereof.

Similar letters of reference indicate corresponding parts in the several figures.

The nature of this invention relates to an improvement in that class of presses which are employed for the purpose of repressing green bricks in the process of manufacturing pressed or "face" brick, whereby the said bricks, after pressing, shall be uniform in size, even if they may vary in weight and density; and it consists in the peculiar construction of the press and the arrangement therein of the pressing-plunger, as more fully hereinafter set forth.

In the drawing, A represents the green brick in the mold B, which is preferably of cast metal, having the desired capacity and being closed at the top by a sliding-plate or cover C, sliding under brackets, D, projecting from the back of the press, one at each side of the mold, in the bottom of which is a cavity or recess, A', to receive the pressing-plunger E, whose stem F plays through a guide-socket formed in the bottom of the mold. G is a lever pivoted to the end of the stem; at I it is pivoted to a stationary fulcrum-pin or stud projecting from a stationary part of the press-frame. At H the lever is connected with any actuating mechanism designed for hand or

power. The green brick being placed flatwise in the mold and the cover slid over the mold, power is applied on the lever, which forces the plunger into the large face of the brick, which, already filling the mold-space before the pressing commenced, is thereby expanded therein on every side, giving it an accurate outline and sharp edges, as well as rendering it dense and solidified. The bricks being first molded to the full capacity of the mold in this press, and the plunger having a lesser area than the broad face of the bricks, the latter must necessarily be uniform in size, although they may vary in weight and density. After pressing the pressure may be slackened to remove the cover, when the brick may be forced out of the press. In Fig. 3 is shown a modification; in this case the mold is open, with two or more inwardly-turned flanges, on which rests a follower, B', through which the stem F plays. The follower forms the bottom of the mold, and may be actuated by any convenient means to eject the pressed brick; the advantage of which is that the pressure to force out the brick is brought thereon about, or rather as far as the edges, which are thereby preserved intact and the brick kept from warping.

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

1. In combination with the mold B, recessed substantially as described, the piston E, constructed and operating as and for the purpose described.

2. The mold B, in combination with the piston E and expelling-plunger, as and for the purpose described.

ABRAHAM J. KNISELY.

Witnesses:

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