(No Model.) 2 Sheets—Sheet 1.

J. HORNBECK.

BRICK MACHINE.

No. 345,304. Patented July 13, 1886.

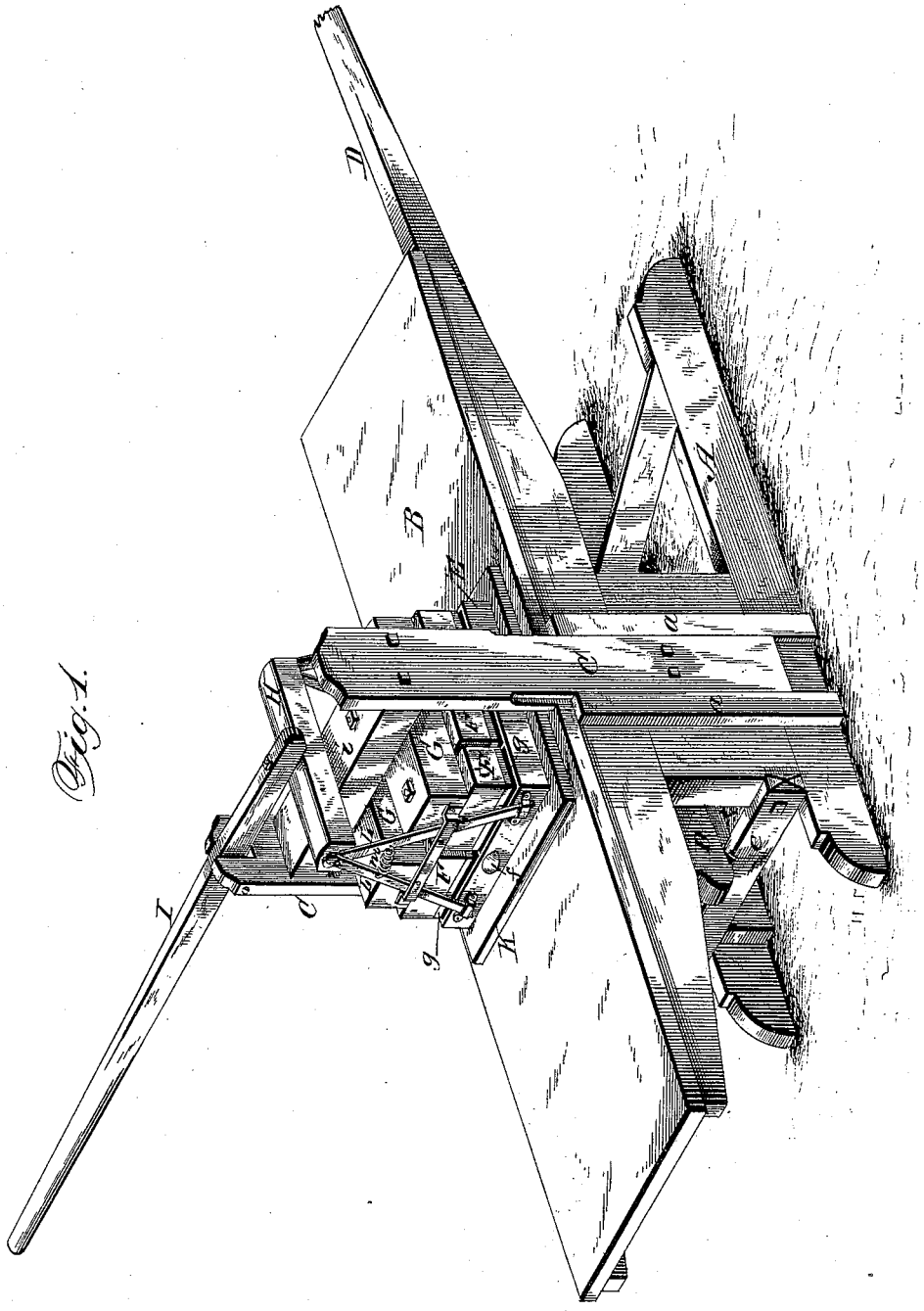

Fig. 1.

WITNESSES

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2 Sheets—Sheet 2.

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Fig. 2.

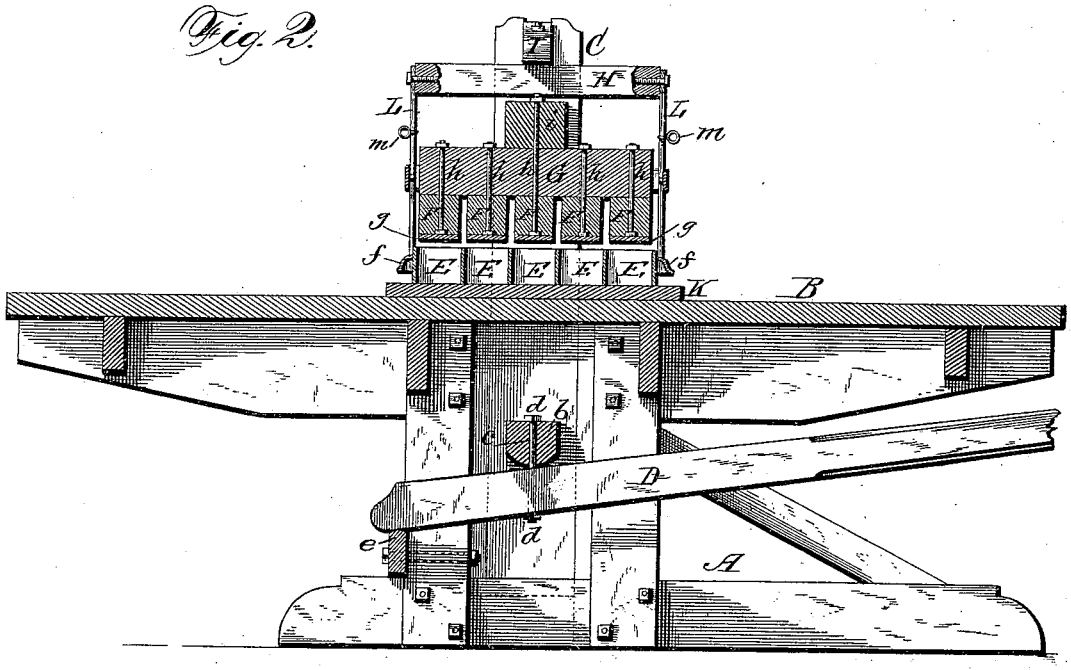


Fig. 3.

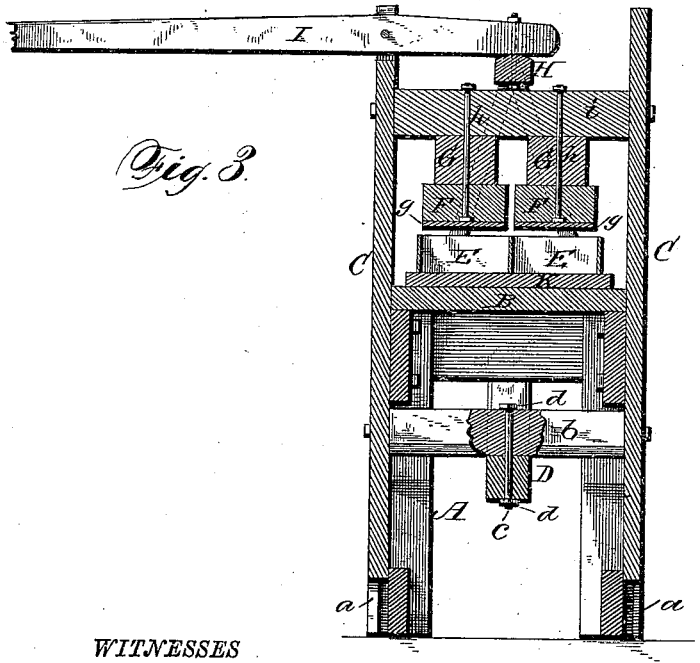
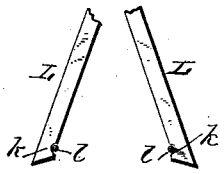


Fig. 4.



WITNESSES

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L. L. Miller.

INVENTOR

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UNITED STATES PATENT OFFICE.

JAMES HORNBECK, OF DES MOINES, IOWA.

BRICK-MACHINE.

SPECIFICATION forming part of Letters Patent No. 345,304, dated July 13, 1886.

Application filed February 16, 1886. Serial No. 192,109. (No model.)

To all whom it may concern:

Be it known that I, JAMES HORNBECK, a citizen of the United States, residing at city of Des Moines, in the county of Polk and State of Iowa, have invented certain new and useful Improvements in a Brick-Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my invention; Fig. 2, a longitudinal section thereof; Fig. 3, a cross-section, and Fig. 4 a detail view of the hooked link-arms.

The present invention has relation to certain new and useful improvements in brick-machines; and it consists in the details of construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents a frame of any suitable form and construction, and B the table supported thereby, and to the sides of the frame are guides *a*, between which are located movable standards C. These standards are connected near their lower ends by a transverse brace, *b*, through which passes a rod, *c*, screw-threaded at its ends to receive nuts *d*, said rod loosely passing through a hole in a lever, D, whereby a loose joint-connection will be made between it and the brace *b*, the short end of said lever resting on a fulcrum-bar, *e*, secured transversely to the frame A.

Upon the table B are supported the molds E, provided with handles *f*, for lifting them, the clay being pressed in the molds by the plungers F. These plungers are of a size to nicely fit the molds, and have metal facings *g*, said plungers being secured to heads G, each by an independent bolt, *h*, to admit of their removal independent of each other for repairs or for other purposes. The heads G are detachably connected in any suitable manner to a transverse brace, *i*, which is in turn bolted to the movable standards C, near their upper ends. A beam, H, is located above the brace *i*, and independent thereof, said beam extending at right angles to the brace and having attached to it one end of a lever, I, which is pivoted to one of the standards C.

To the ends of the beam H are pivoted one end of the link-arms L, the lower ends of said arms terminating in hooks *k*, to engage with pins *l*, or other preferred means, on the outer sides of the molds E. These arms L are operated by the lever I to engage or disengage the hooked ends thereof with the pins, and to lift the molds E off the receiving-table K, to discharge the pressed clay therefrom and admit of said board being removed, a spring, *m*, connected to the link-arms, holding them in engaging position with the pins on the molds. The arms L pass down through guides *n p*, attached, respectively, to the heads G and molds E, which act both as guides and also stops for the arms, to prevent them from being forced out too far or brought too near together. The hooked ends of the arms L and the pins *l*, with which they engage, I shall term a "latching device," as any well-known means may be substituted that will admit of the lower ends of the arms being engaged or disengaged with the molds E, at the will of the operator, so that the molds can be removed for any purpose, or raised by means of the lever I, to force the pressed clay from the molds onto the receiving-board K. By means of the lever D and movable standards C, the plungers F are operated to press the clay in the molds E, the link-arms L not being permanently attached to the molds allowing of this downward movement of the plungers sufficiently to properly press the clay.

Without departing from the principle of my invention it is evident that the table and frame for supporting it may be modified and changed in form and construction, as may also the molds and plungers and manner of connecting them to the movable standards. These changes, or any modifications coming within ordinary mechanical skill, I reserve the right to make without affecting the scope or general principle of the invention.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a brick-machine, the combination, with

a suitable supporting-frame and table provided with guides at its sides, movable standards sliding therein, and carrying the plungers, and a lever for operating the standards, of a lever pivoted to one of the standards and having attached a cross-beam, link-arms pivoted thereto, a spring connected to the arms, and a latching device for connecting or disconnecting the arms with the molds, substantially as and for the purpose set forth.

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

JAMES HORNBECK.

Witnesses:
W. H. KEATING,
E. G. SAYLOR.