3 Sheets--Sheet 1.

J. F. CLARK.

Brick-Machine.

No. 162,030. Patented April 13, 1875.

Fig. 1.

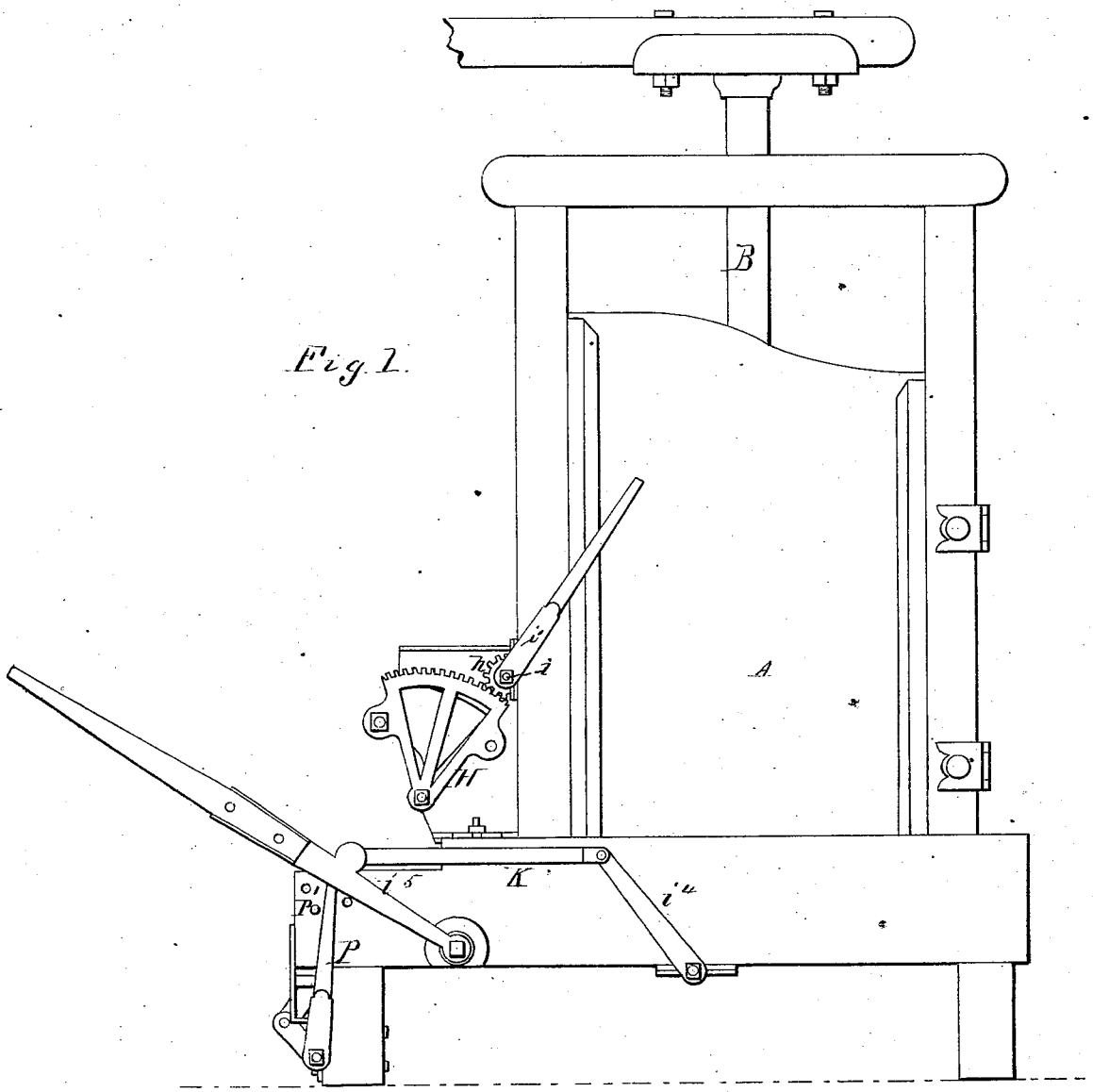

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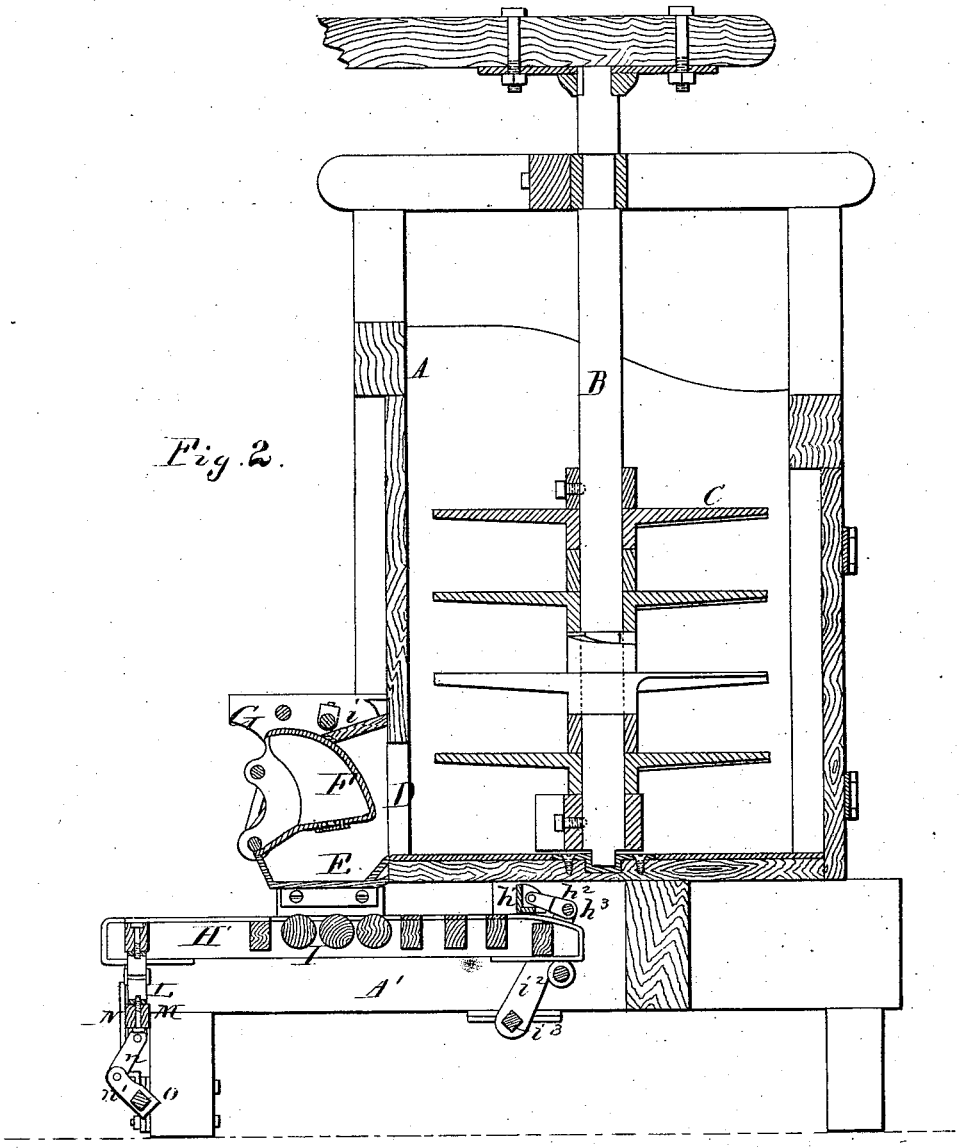
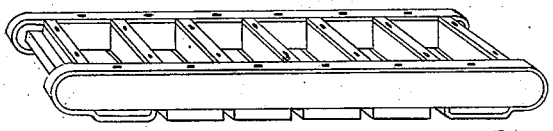
Fig. 2.





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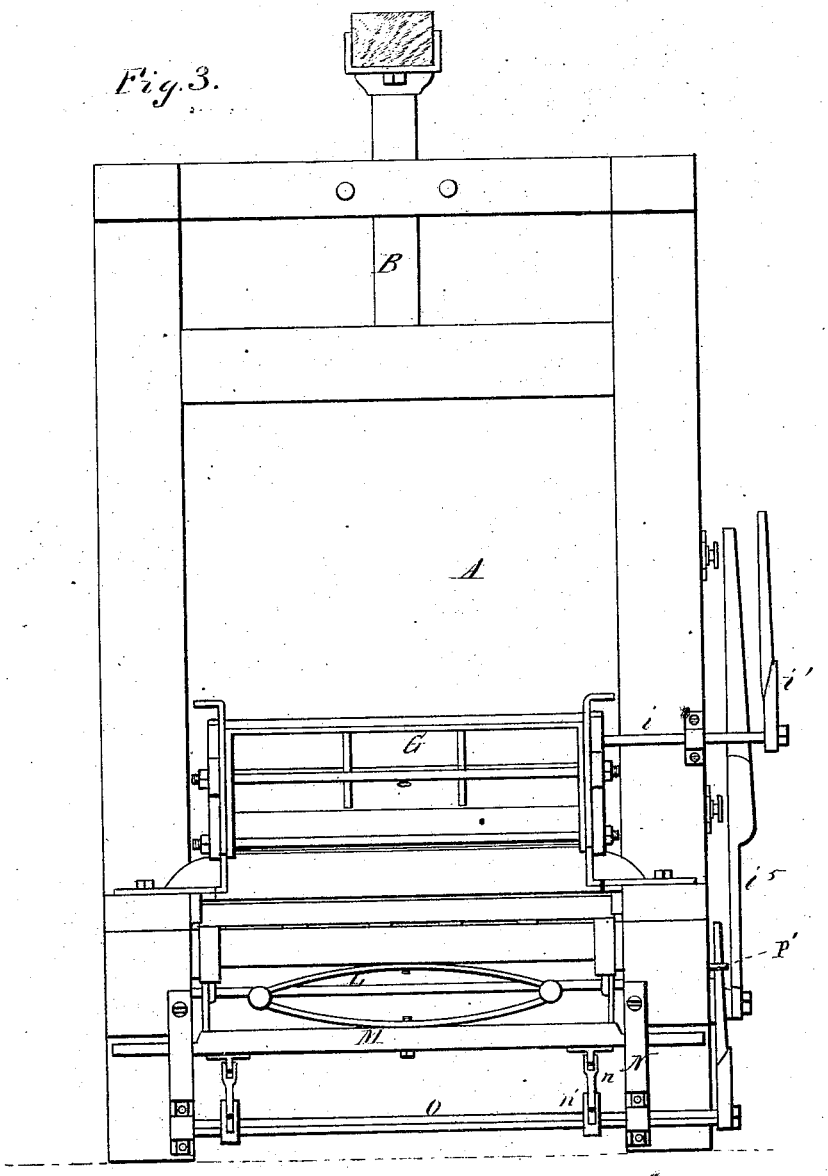
J. F. CLARK.

Brick-Machine.

No. 162,030. Patented April 13, 1875.

Fig. 3.



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UNITED STATES PATENT OFFICE

JAMES F. CLARK, OF MORENCI, MICHIGAN.

IMPROVEMENT IN BRICK-MACHINES.

Specification forming part of Letters Patent No. **162,030**, dated April 13, 1875; application filed March 27, 1875.

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-Machines; 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 drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side view of my brick-machine. Fig. 2 is a section of my machine. Fig. 3 is a front view of same.

This invention has relation to brick-machines; and it consists in the construction and novel arrangement of devices, all substantially as hereinafter more fully described.

A, in the drawings, represents the hopper, with the beater-shaft B holding beaters C, arranged to rotate therein. D designates an opening near the bottom and at the front of the hopper, through which the clay is forced into the clay-box E, underneath which lies the set of molds while being filled. In the bottom of said box are openings corresponding to the molds. The clay is pressed through said openings by means of a segmental presser, F, pivoted to a frame, G, provided with segmental racks H, and raised and lowered through the medium of a pair of pinions, h, on a transverse shaft, i, which is turned by a lever, i^1. H′ designates the mold-platform, having transverse rollers I to facilitate the transfer of the molds along it. This platform is pivoted to the sides of the frame A′ at its rear end, and receives the molds through an aperture in the side of the frame under the hopper. When a set of molds is put through this opening it is moved under the clay-box by means of a transverse pusher-bar, h^1, which is pivoted to arms h^2, projecting from a transverse shaft, h^3. This shaft has attached to its ends a pair of crank-arms or levers, i^2, secured to a power-shaft, i^3, and playing through recesses in the sides of the mold-platform. The shaft i^3 is provided also with a lever, i^4, which is connected by a rod, K, to a lever, i^5, pivoted to the frame A′.

The forward movement of the lever i^5 causes the mold to be pushed under the clay-box; the reverse movement conveys the pusher-bar back of the aperture in the side of the frame A′, allowing another set of the molds to be inserted. As the latter is pushed forward the first set is pushed from under the clay-box to the outside of the machine, the front end of the mold-platform being raised while the set of molds is coming out, so that the surplus clay will be struck off by the bottom of the clay-box. After each set of molds is filled, the segmental presser is raised to admit a fresh supply of clay to the clay-box.

To give the forward end of the mold-platform an elastic or yielding pressure, said end is supported upon an elliptic spring, L, which rests on a transverse movable bar, M, held behind guides N. Pivoted to the under side of the bar M are links n, connecting the former to arms n' projecting from a transverse shaft, O, which is operated by means of a lever, P. A pin, P′, inserted in the side of the frame A′, holds the lever in an upright position against the unaided pressure of the spring, thus causing the mold-platform to remain in about a horizontal plane. The rearward movement of the lever P causes the forward end of the platform to be raised, and any desired amount of elastic pressure exerted.

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

In a brick-machine, the hinged mold-platform H′, spring L, bar M, toggles n n', shaft O, and lever P, combined substantially as specified.

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

JAMES F. CLARK.

Witnesses:

DANIEL MOWRY,

DUDLEY C. HENION.