2 Sheets—Sheet 1.

J. J. ENDRES.

MACHINE FOR MOLDING BRICKS, ARTIFICIAL FUEL, &c.

No. 185,090. Patented Dec. 5, 1876.

Fig: 1.

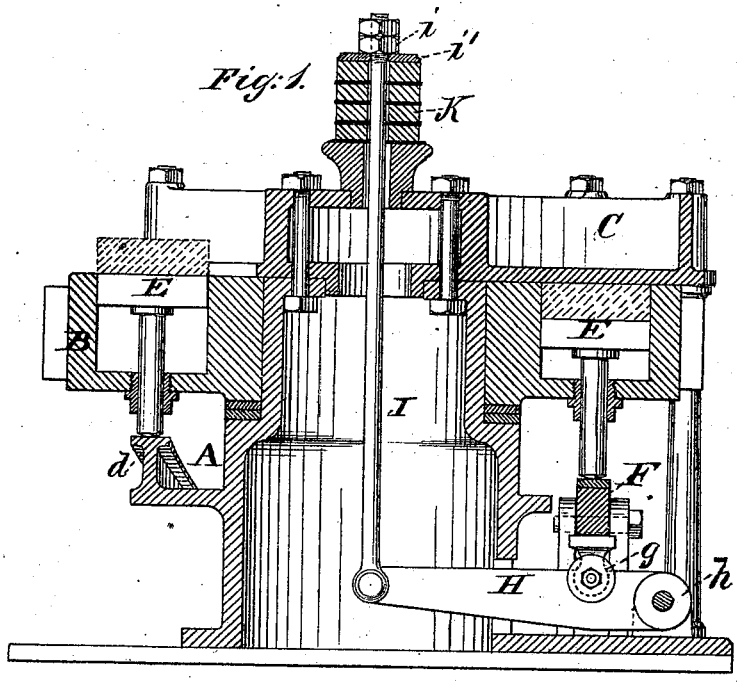
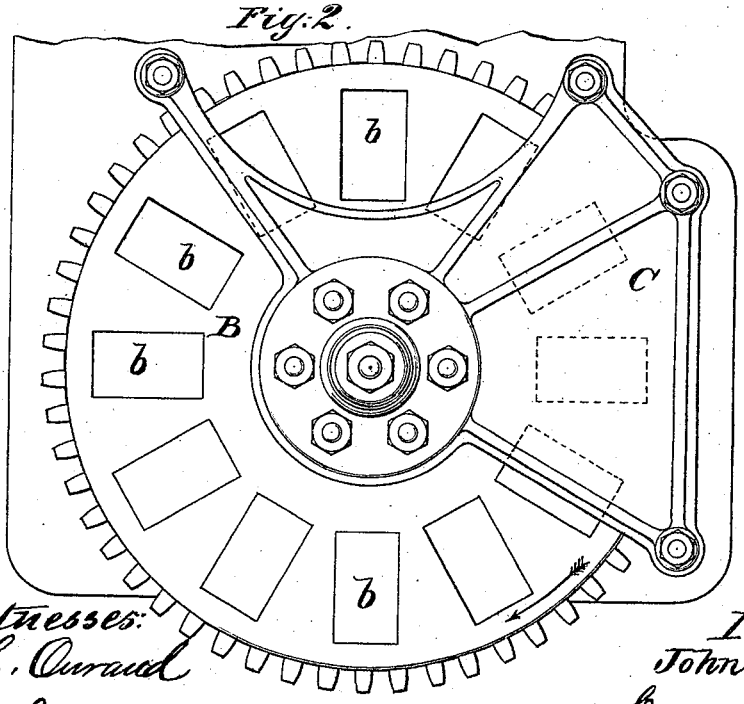


Fig: 2.



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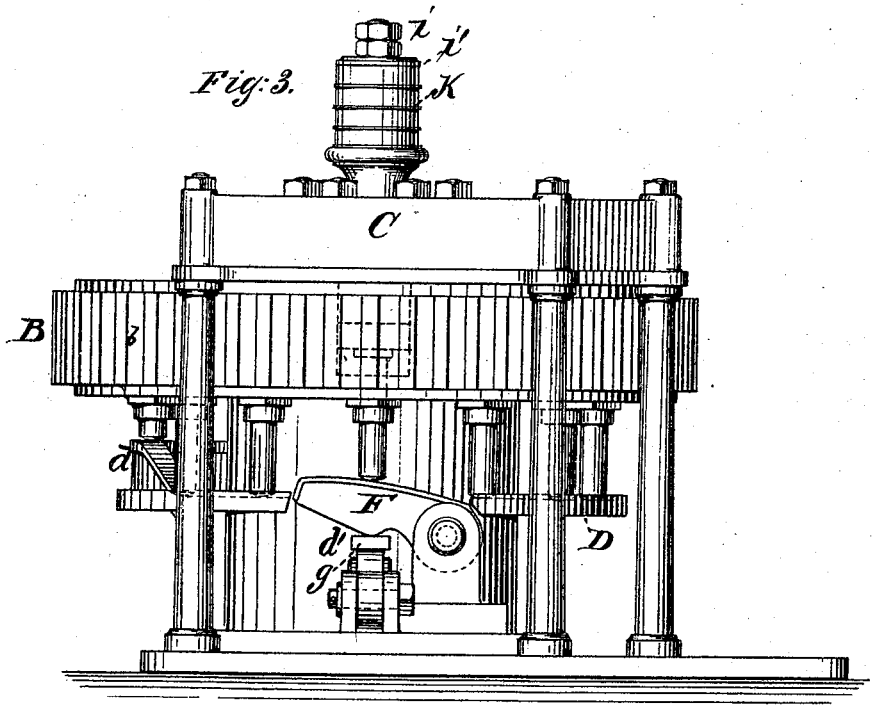
2 Sheets—Sheet 2.

J. J. ENDRES.

MACHINE FOR MOLDING BRICKS, ARTIFICIAL FUEL, &c.

No. 185,090. Patented Dec. 5, 1876.

Fig: 3.



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UNITED STATES PATENT OFFICE.

JOHN J. ENDRES, OF NEW YORK, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO LORENZO L. CROUNSE, OF RONDOUT, N. Y.

IMPROVEMENT IN MACHINES FOR MOLDING BRICKS, ARTIFICIAL FUEL, &c.

Specification forming part of Letters Patent No. **185,090**, dated December 5, 1876; application filed November 24, 1876.

To all whom it may concern:

Be it known that I, JOHN J. ENDRES, of New York city, in the county of New York, and State of New York, have invented certain new and useful Improvements in Presses, of which the following is a specification:

Figure 1 is a vertical central section. Fig. 2 is a top plan view. Fig. 3 is an elevation of the machine on the side where the incline supporters and lever are attached.

The object of present invention is to provide certain improvements on my Patent No. 162,363, of April 20, 1875, and consists more particularly in the construction and adaptation of the several parts constituting the present mechanism, all as will now be more fully set out and explained.

In the accompanying drawings, A denotes the stand; B, the mold-wheel, and *b* the molds; C, the pressure-plate. D is the rim, over which the plungers E pass in the revolution of the mold-wheel, and *d* is the delivery-incline.

In general detail the construction of the above parts is similar to what I have heretofore shown, and need not now be more minutely described for the purposes of this case.

On one side of the apparatus, and under the press, is the hinged incline F, which is adapted to move vertically in an opening in the rim or plate D, and under and in combination with the pressure-plate C, and rests at *d'* upon a seat, *g*, placed in the upper face of the supporting-lever H. This seat is suitably constructed to adapt itself automatically to the several motions of the pressure mechanism. The said lever is hinged at its outer end *h*, and extends under the machine, so that its inner end can be jointed to the vertical rod I. This rod I, passing upward through the machine, is held adjustably at its upper end by nuts *i* and plate *i'* upon the springs K.

Thus, when my machine is set up for use, the practical operation will be about as follows: When the molds have been filled with material which is to be pressed—clay, artificial fuel, or other substances—and the mold-plate revolves under the pressure-plate, the lower ends of the plunger-stems, moving along over the rim, will, as the wheel passes under the pressure-plate, strike upon the upper face of the incline, which moves vertically in the openings in the rim, and, sliding up on it, will be forced upward, carrying the plungers, and thus impart the requisite pressure to the substance in the molds.

During this operation the said incline, resting upon the upper edge of the main lever, in the manner as before described, will have a certain and necessary degree of elasticity by means of the springs at the top of the rod to which the inner end of the lever is attached.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is—

1. The combination of the incline F with seat *g*, lever H, and rod I, suitably provided with springs, substantially as and for the purposes set forth.

2. In a machine, substantially as described, the combination of the pressure-plate and mold-wheel, suitably provided with plungers, with the elastic and self-adjusting compressing mechanism, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JOHN J. ENDRES.

Witnesses:
S. A. TERRY,
F. A. STIER.