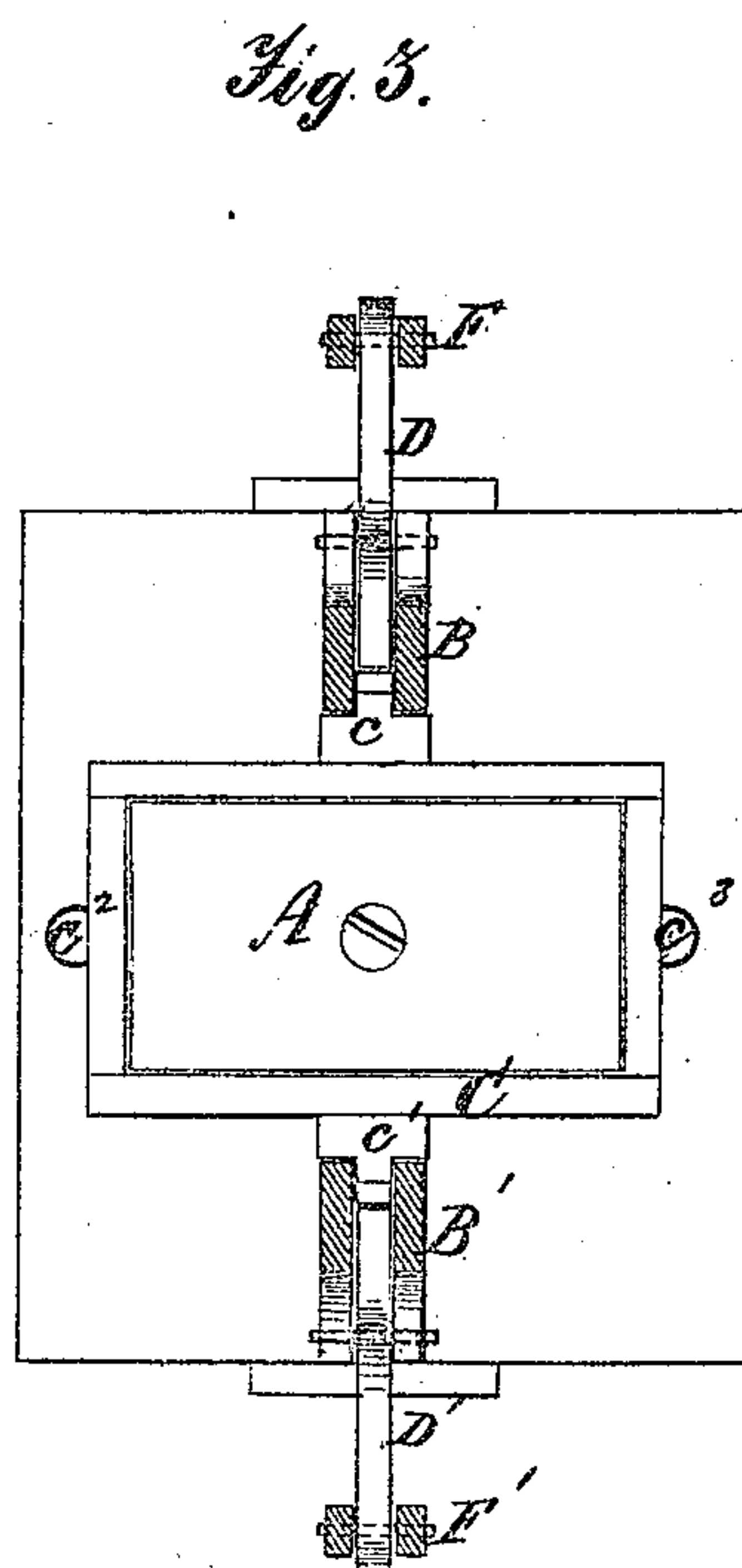
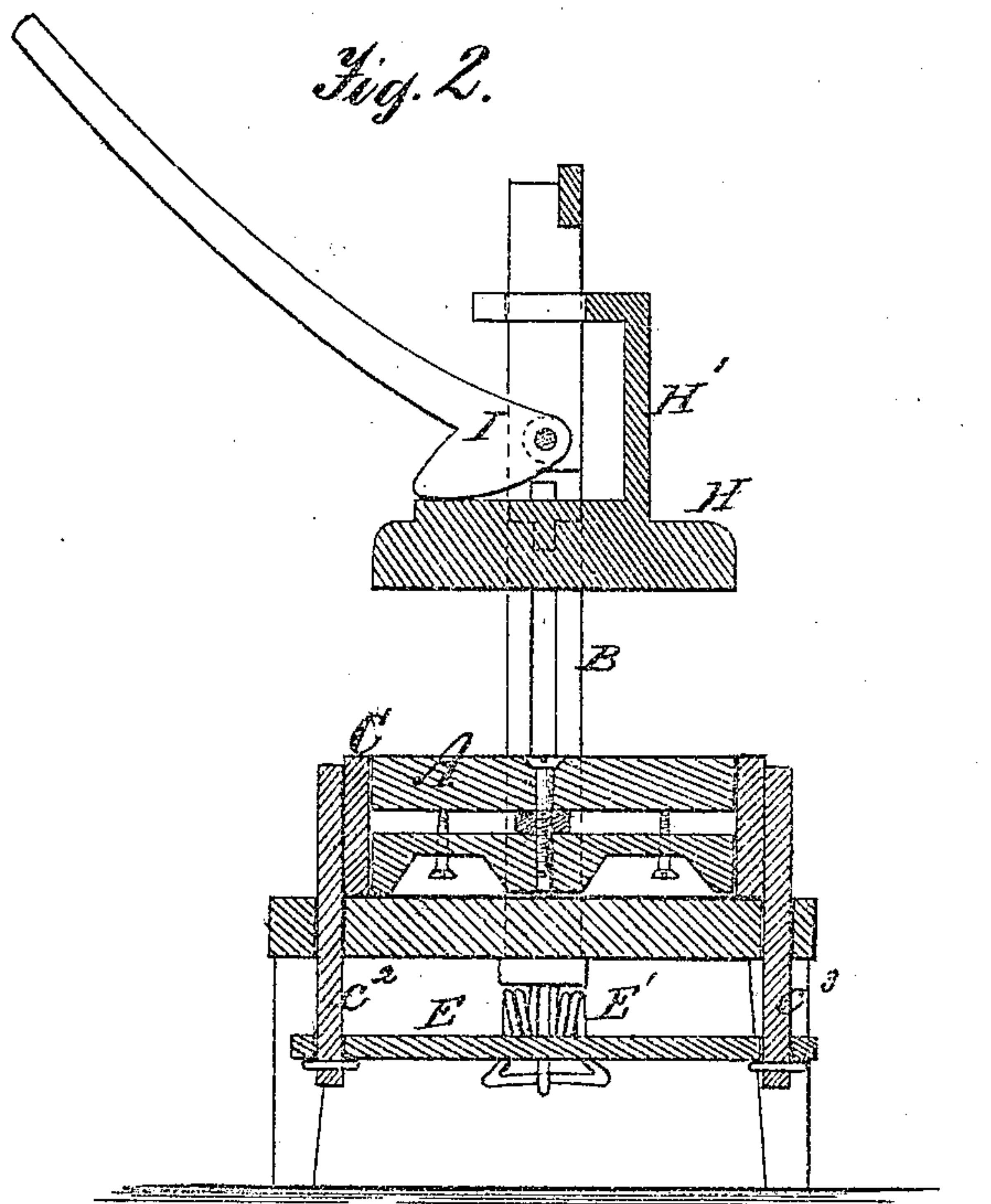
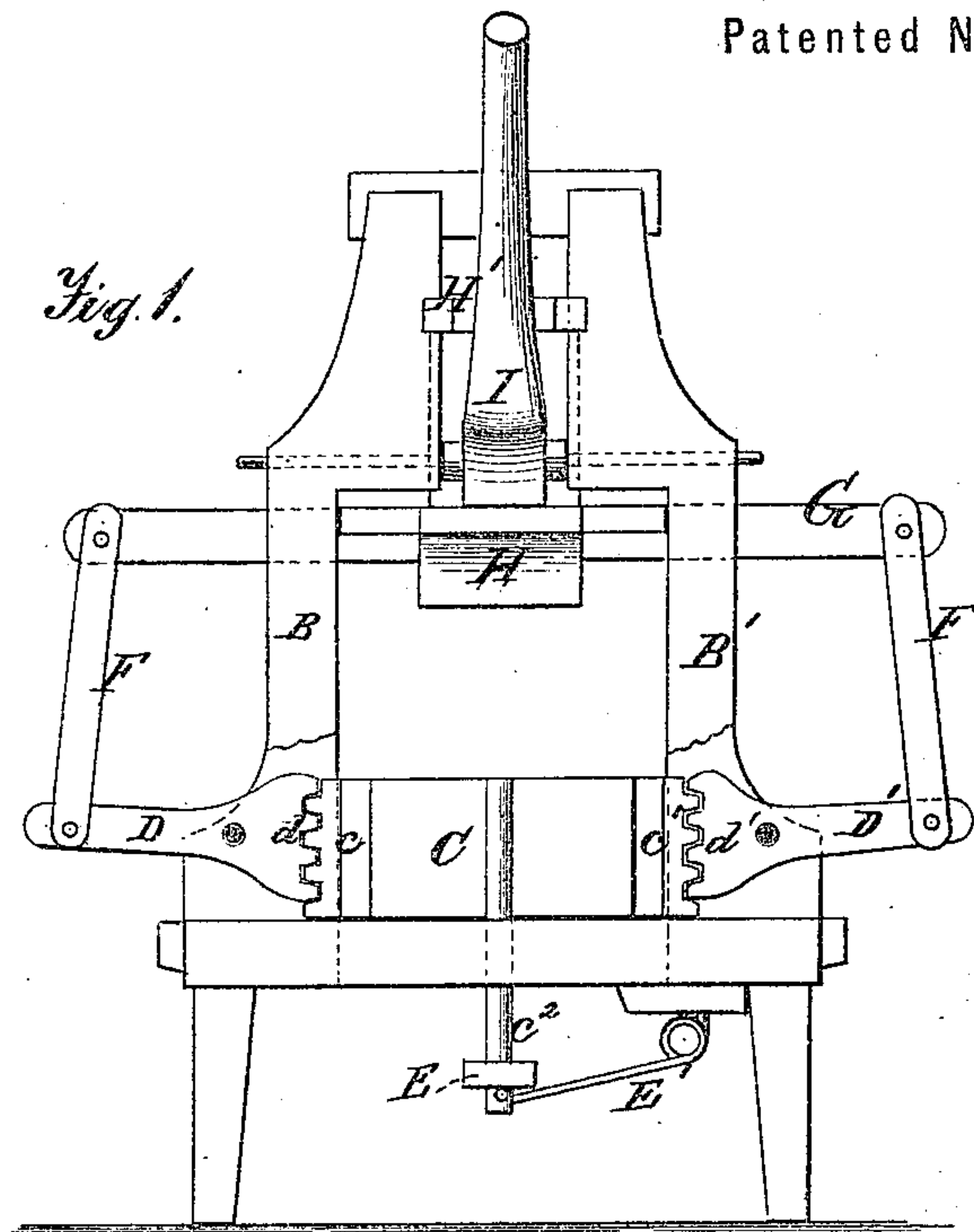


W. C. GAITHER.

Brick Machines.

No. 133,429.

Patented Nov. 26, 1872.



Witnesses.  
A. Ruppert  
C. J. C. C.

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Attys



# UNITED STATES PATENT OFFICE.

WILLIAM C. GAITHER, OF LA FAYETTE, INDIANA.

## IMPROVEMENT IN BRICK-MACHINES.

Specification forming part of Letters Patent No. 133,429, dated November 26, 1872.

*To all whom it may concern:*

Be it known that I, WILLIAM C. GAITHER, residing at La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain Improvements in Brick-Machines, of which the following is a specification:

This invention relates to a machine for repressing bricks, after they have been formed in a suitable mold, by hand or power, for the purpose of making them square, and true, and as smooth as possible, to adapt them more particularly for use as front bricks. My improvement consists in the use of a stationary platen, upon which the brick is placed, a reciprocating frame surrounding said platen, and a movable platen or follower acting in combination to repress the brick for the purposes alluded to, the mold and follower being connected together for simultaneous action and returned to a state of rest by means of a spring; and it further consists in certain other novel combinations, to be generally explained in the ensuing description and specifically pointed out in the claims.

Figure 1 is a front elevation, portions of the frame-work being broken away to show the means of operating the mold-frame. Fig. 2 is a vertical transverse section. Fig. 3 is a sectional plan.

The same letters of reference are employed in all the figures in the designation of identical parts.

The platen A, upon which the brick to be repressed is placed, is supported upon the table or bed or the frame-work of the machine centrally within the opening between the uprights or standards B B' thereof, and is capable of vertical adjustment. This may be effected by making it of two sections, adjustably connected together by bolts, as clearly shown in Fig. 2, or other means may be provided for such purpose. The platen is surrounded by the mold-frame C, snugly fitting it, and in height about equal to that of the platen. Each side of this frame C is provided with a vertical rail, *c* and *c'*, which bear with their broad bases against the standards B and B', and extend with their cogged tops into slots therein, to gear into the segments

*d d'* of the levers D D', by which the mold-frame is elevated in the act of repressing the brick. Upon each end the frame C carries a fixed rod, *c<sup>2</sup>* and *c<sup>3</sup>*, which, after passing through holes in the bed, are connected by the cross-bar E, which is in turn secured to the free end of a spring, E', tending to draw the cross-bar and its connections down so as to seat the mold-frame C upon the bed. The levers D and D' are connected by the rods F and F' to the cross-head G, which moves in the slots in the standards B and B', and carries the follower H. The latter, to steady its movements, may be constructed with an angular framework, H', the horizontal arms of which are guided between extensions of the standards in the manner illustrated. The follower is depressed by a cam-lever, I. For this purpose other means may, however, be employed. The depression of the follower causes an elevation of the mold-frame C, which now encircles the brick, and holds it firmly in place to be pressed by the follower. As soon as the cam-lever is released or thrown up the recoil of the spring E' returns the mold-frame and the follower to their normal positions.

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

1. The mold-frame C and follower H, connected together for simultaneous movements, in combination with the spring E' and stationary platen A, substantially as specified.

2. The combination of the stationary platen A, mold-frame C having racks *c c'*, levers D D' having segmental gears *d d'*, connecting-rods F F', cross-head G, and follower H, substantially as specified.

3. In combination with the elements enumerated in the last-preceding claim, I claim the cam-lever I and spring E', suitably connected to the mold-frame C, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM C. GAITHER.

Witnesses:

C. T. HURLY,

JOHN SULLIVAN.