

(Model.)

2 Sheets—Sheet 1.

H. RIESEL.

Bale Ejector for Presses.

No. 235,294.

Patented Dec. 7, 1880.

Fig. 1.

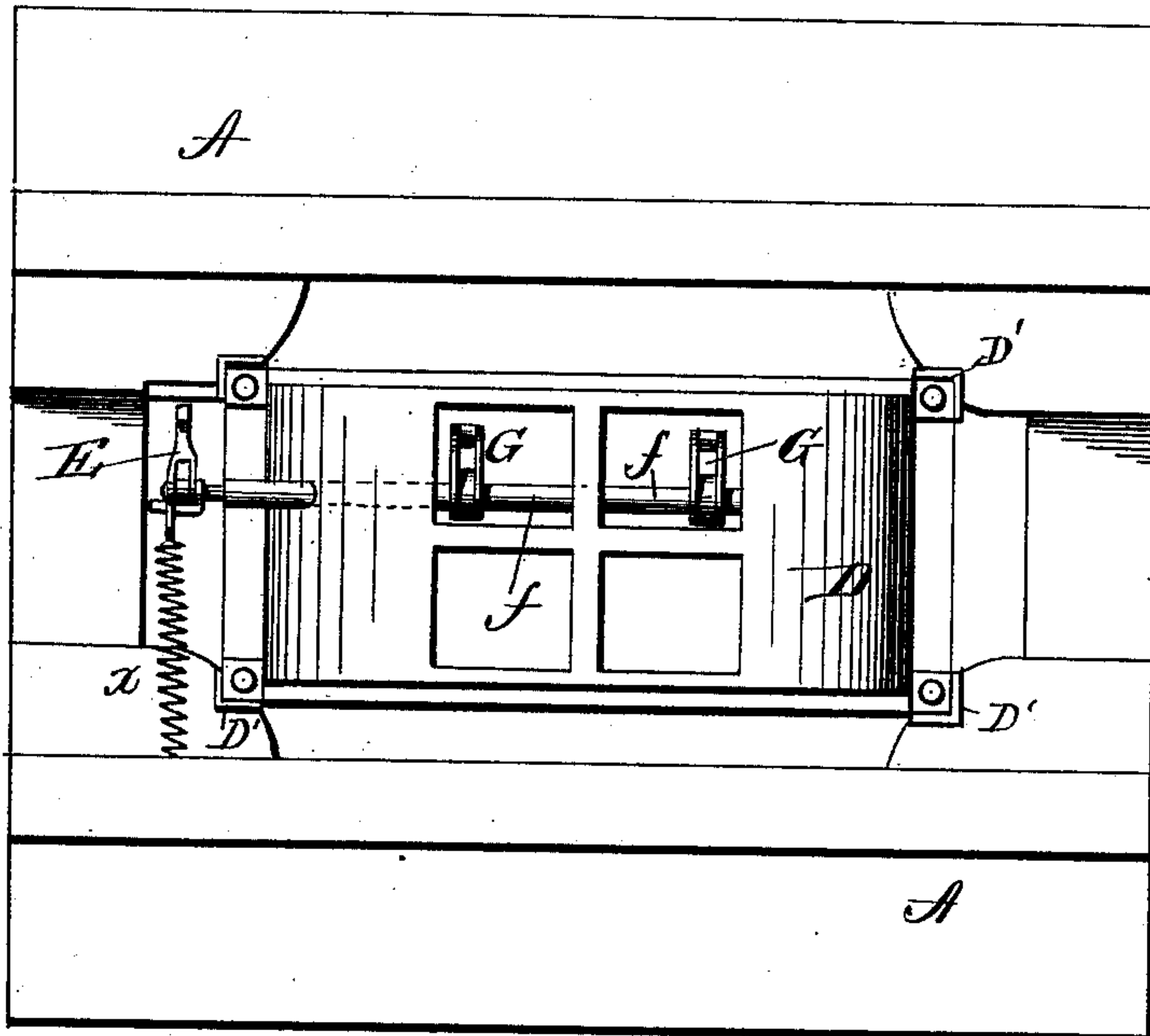
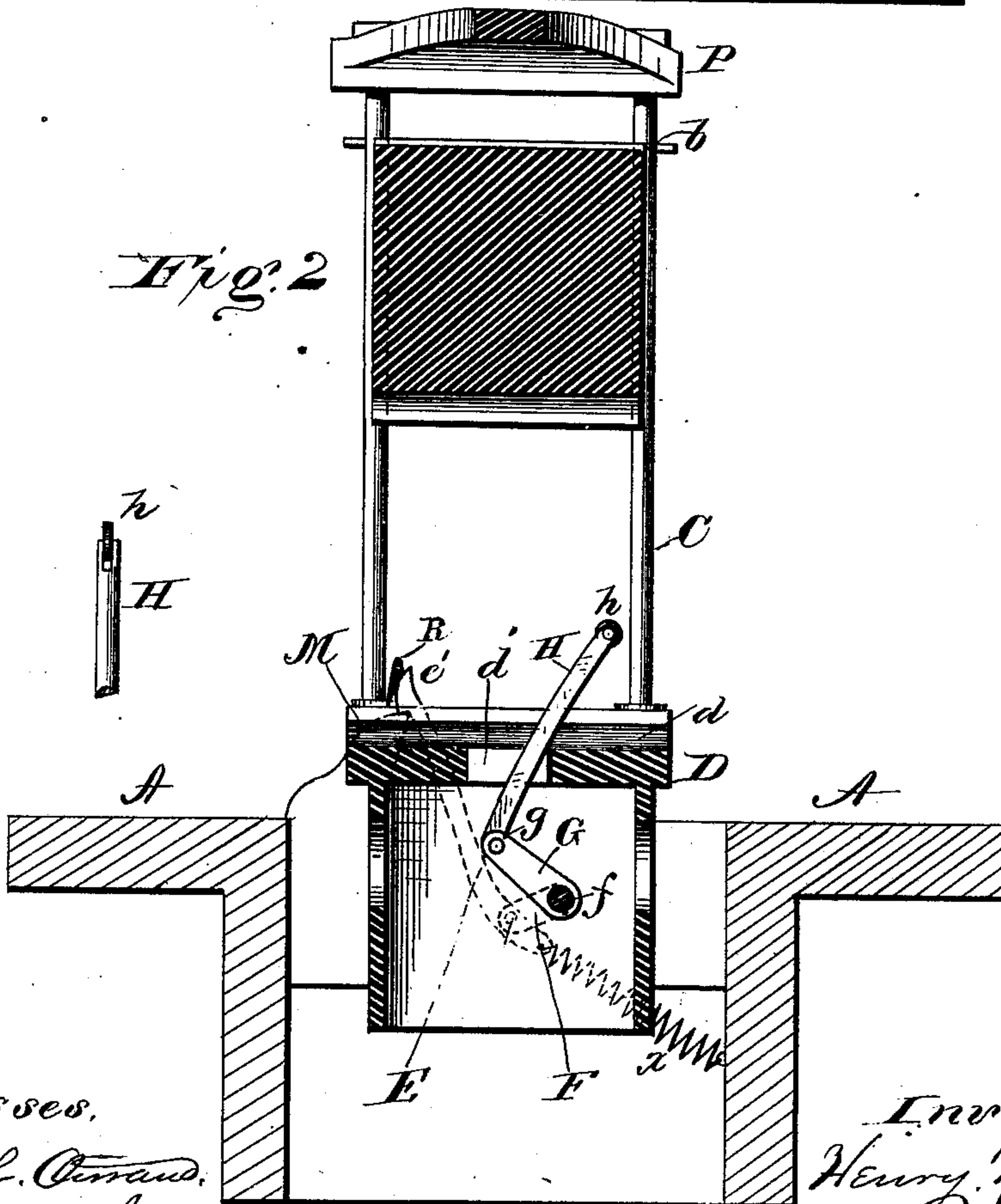


Fig. 2.



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Inventor,
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By Alexander Thayer
att'y

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Fig. 3.

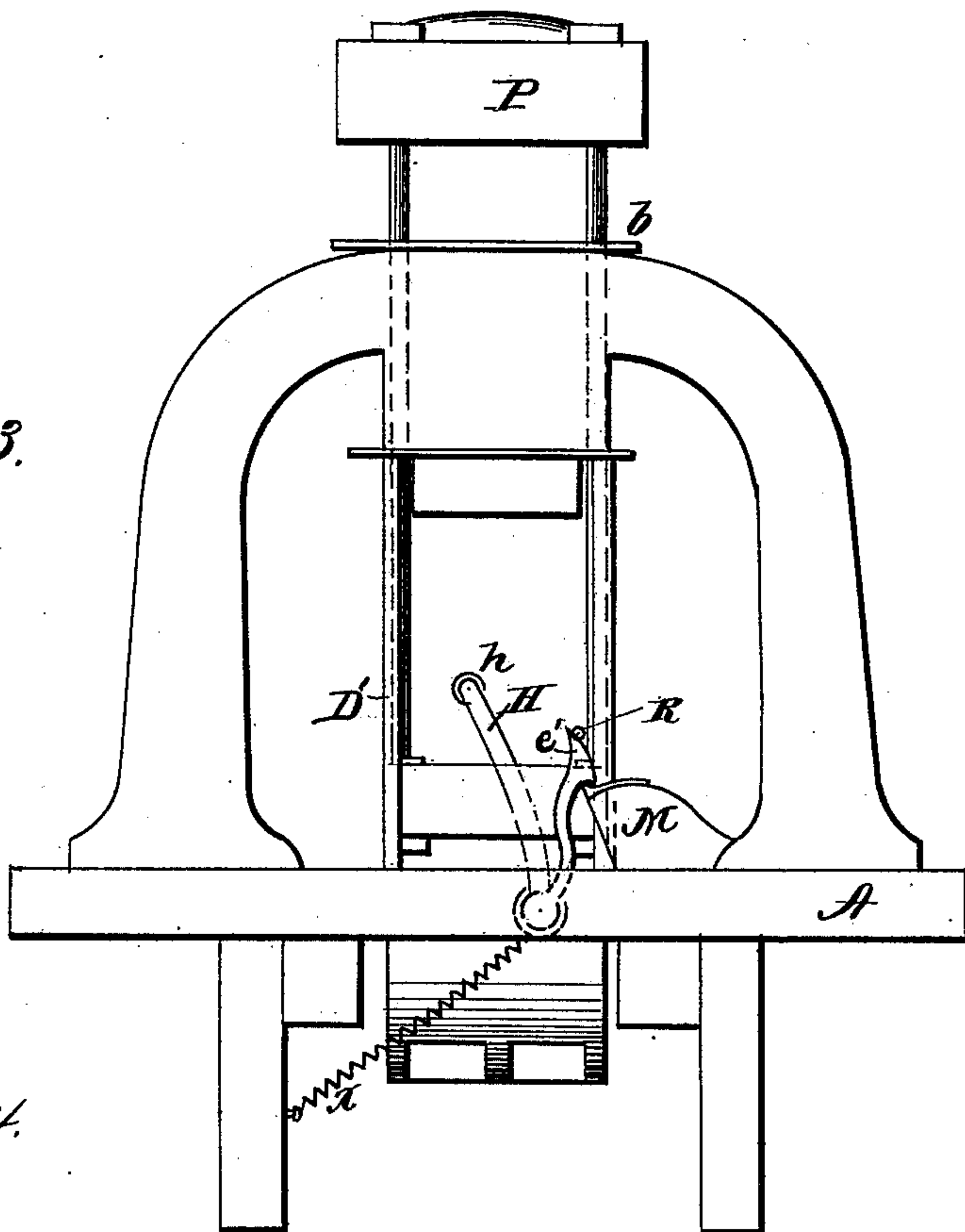
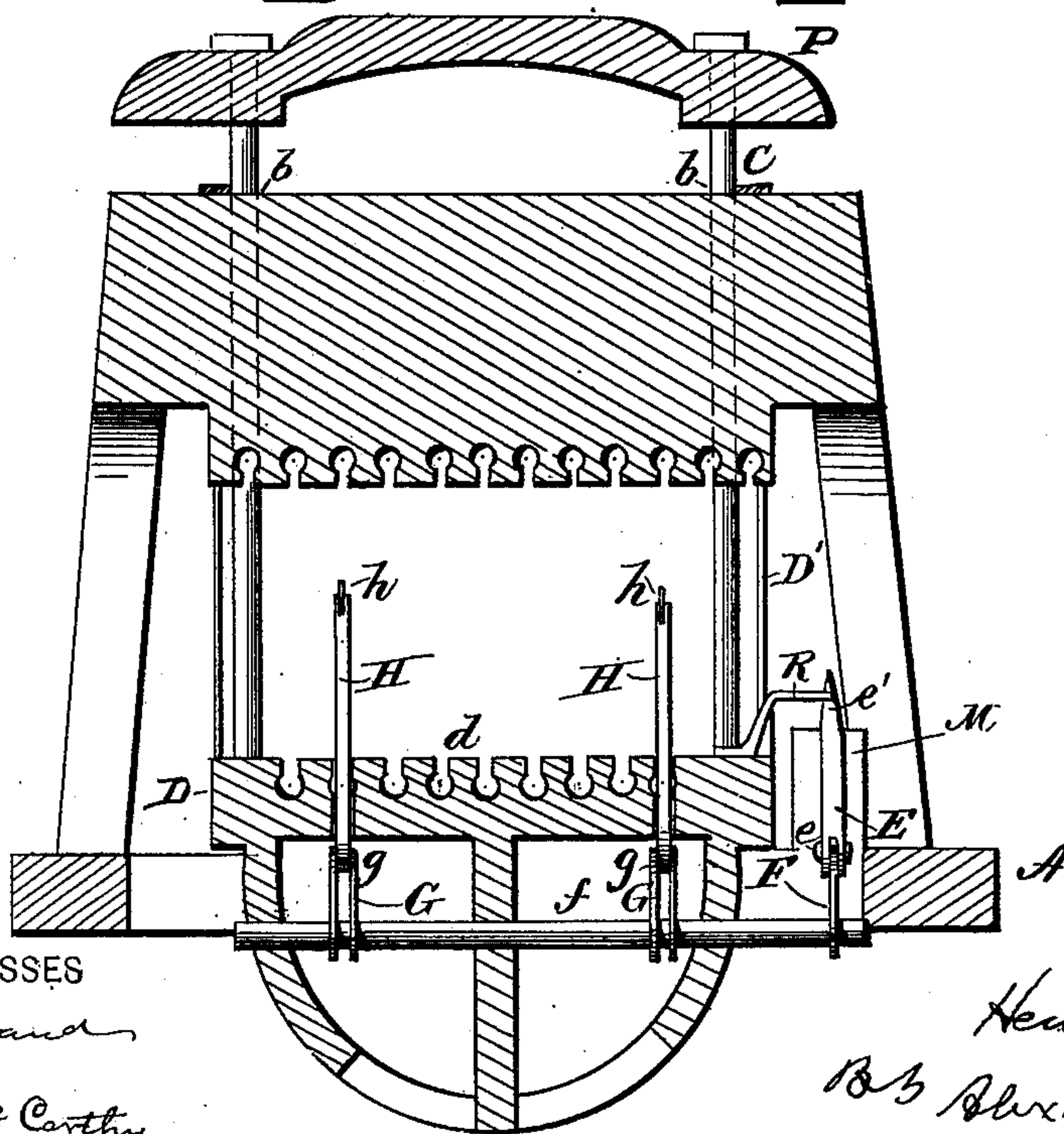


Fig. 4.



WITNESSES

F. L. Curran
J. J. McCarthy

INVENTOR

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UNITED STATES PATENT OFFICE.

HENRY RIESEL, OF GALVESTON, TEXAS.

BALE-EJECTOR FOR PRESSES.

SPECIFICATION forming part of Letters Patent No. 235,294, dated December 7, 1880.

Application filed September 21, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY RIESEL, of Galveston, in the county of Galveston, and in the State of Texas, have invented certain new and useful Improvements in Bale-Ejectors for Presses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention has for its object to provide a simple and efficient device for ejecting the bales, after the same have been formed and compressed, from cotton and other presses. This object I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a bottom view of a press having my invention applied thereto; Fig. 2, a transverse section showing the device for ejecting the bale. Fig. 3 represents an end elevation of the press, showing my improvement; and Fig. 4, a longitudinal vertical section of the same.

The letter A indicates the base of the press-frame, which may be of the ordinary or any approved construction.

The letter D' indicates a follower, which has secured to its corners the vertical rods C, which pass upward through guideways *b* in the upper part of the frame, and are adapted to travel back and forth vertically in the same. The upper ends of the rods connect with a suitable cross-bar, P, by means of which the follower may be connected with any operating mechanism by which it may be reciprocated.

The follower, at its corners, is confined between vertical guides D', secured to the machine, and is adapted to travel therein.

The letter *d* indicates the usual channel-bars of the follower.

The letter *f* indicates a shaft extending longitudinally through the follower below the channel-bars *d*, and to said shaft are keyed or otherwise securely fastened the arms G, bifurcated to receive the ejecting-arms H, which are pivoted to said arms G. The said arms H extend upward through openings *d'*, and between two of the channel-bars *d*, and are provided, at their extremities, with friction-rollers *h*.

The shaft *f*, at one end, extends beyond its bearing, and has keyed or otherwise securely

fastened to it an arm, F, to the extremity of which, at *e*, is pivoted loosely a link, E, which is provided with a hook or catch, *e'*, at its upper end.

The letter *x* indicates a spring secured at one end to the link E, and at the other to one side of the frame, the said spring serving to hold and return the link and the ejecting mechanism to a normal position.

The letter M indicates a detent attached to the lower part of the frame of the machine in such position as to engage the hook *e* on the downward movement of the follower and retain the link as the follower completes its downward movement, so as to partially rotate the shaft *f* and elevate or project the ejecting-arms H upward between the channel-bars.

The letter R indicates a trip secured to the follower in such position as to engage the end of the link E and cause it to move backward away from the detent M when the follower has completed or is about completing its downward stroke, so as to allow the link and ejecting mechanism to assume their normal position, in which position the extremities of the arms H will lie between their respective channel-bars.

The upper end of the link E, above its hook, is beveled, as shown, so as to pass the detent and trip on the upward movement of the follower.

The operation of my invention will be readily understood from the above description without further explanation.

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

The combination, with the follower D, secured between and adapted to travel in guides D', and provided with vertical rods C, secured to a cross-piece, P, of the shaft *f*, provided with arms G, to which are pivoted the ejecting-arms H, extending between channel-bars of the follower, the arm F, secured to the shaft *f*, the hooked link E, the detent M, and trip R, the whole constructed and arranged to operate substantially as herein specified.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of September, 1880.

HENRY RIESEL.

Witnesses:

HENRY FALKENHAGEN,
J. C. STENZEL.