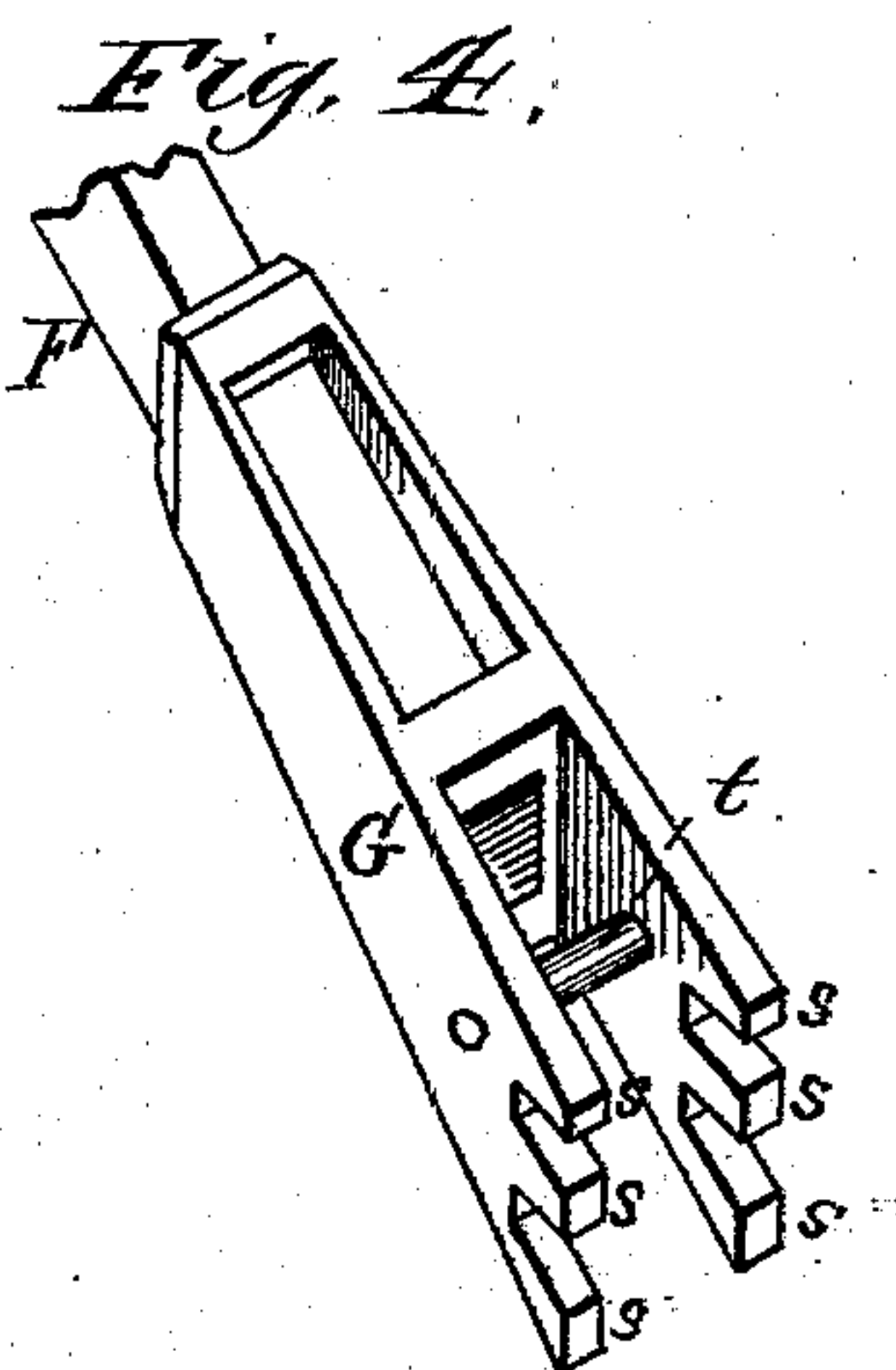
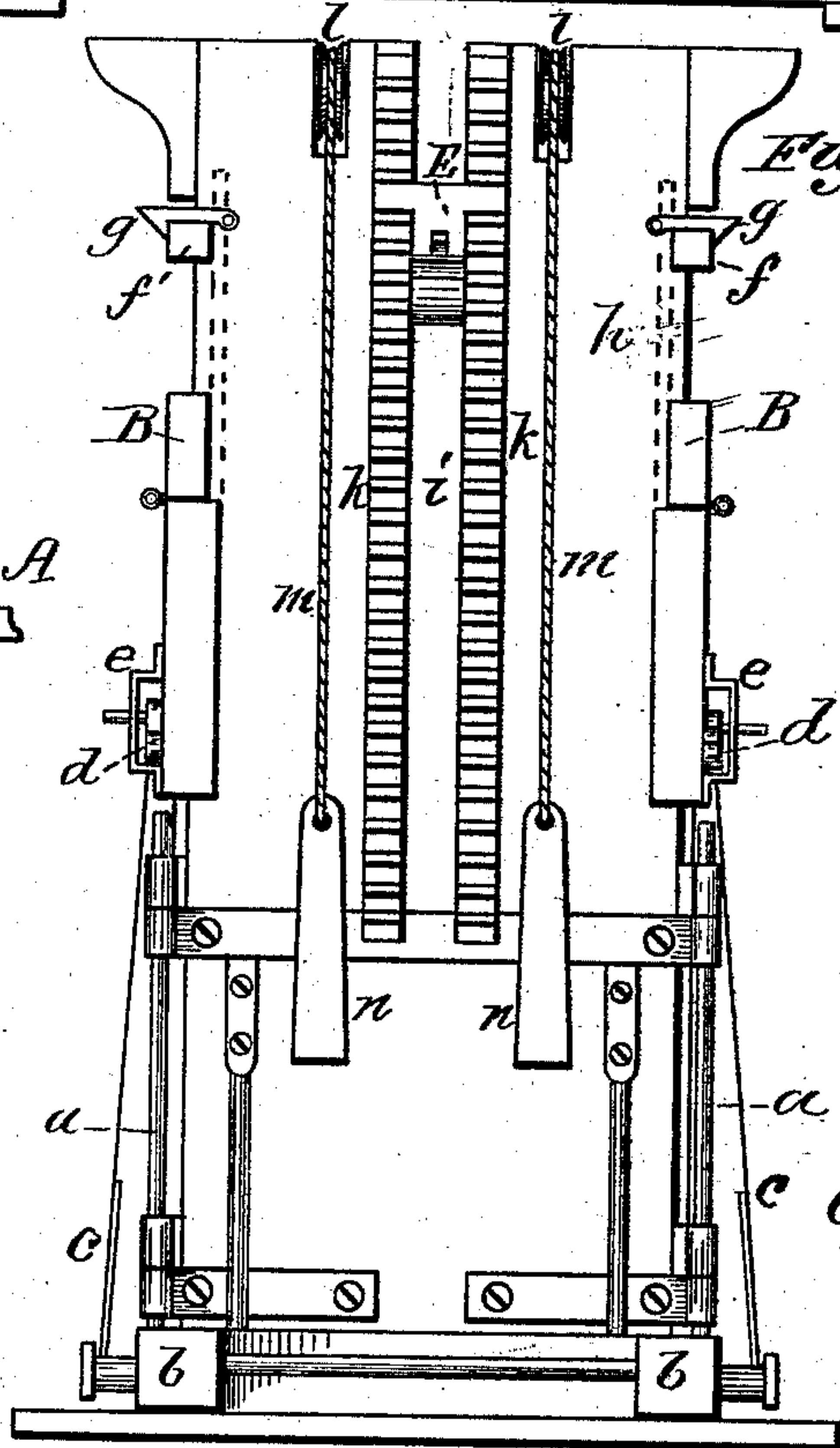
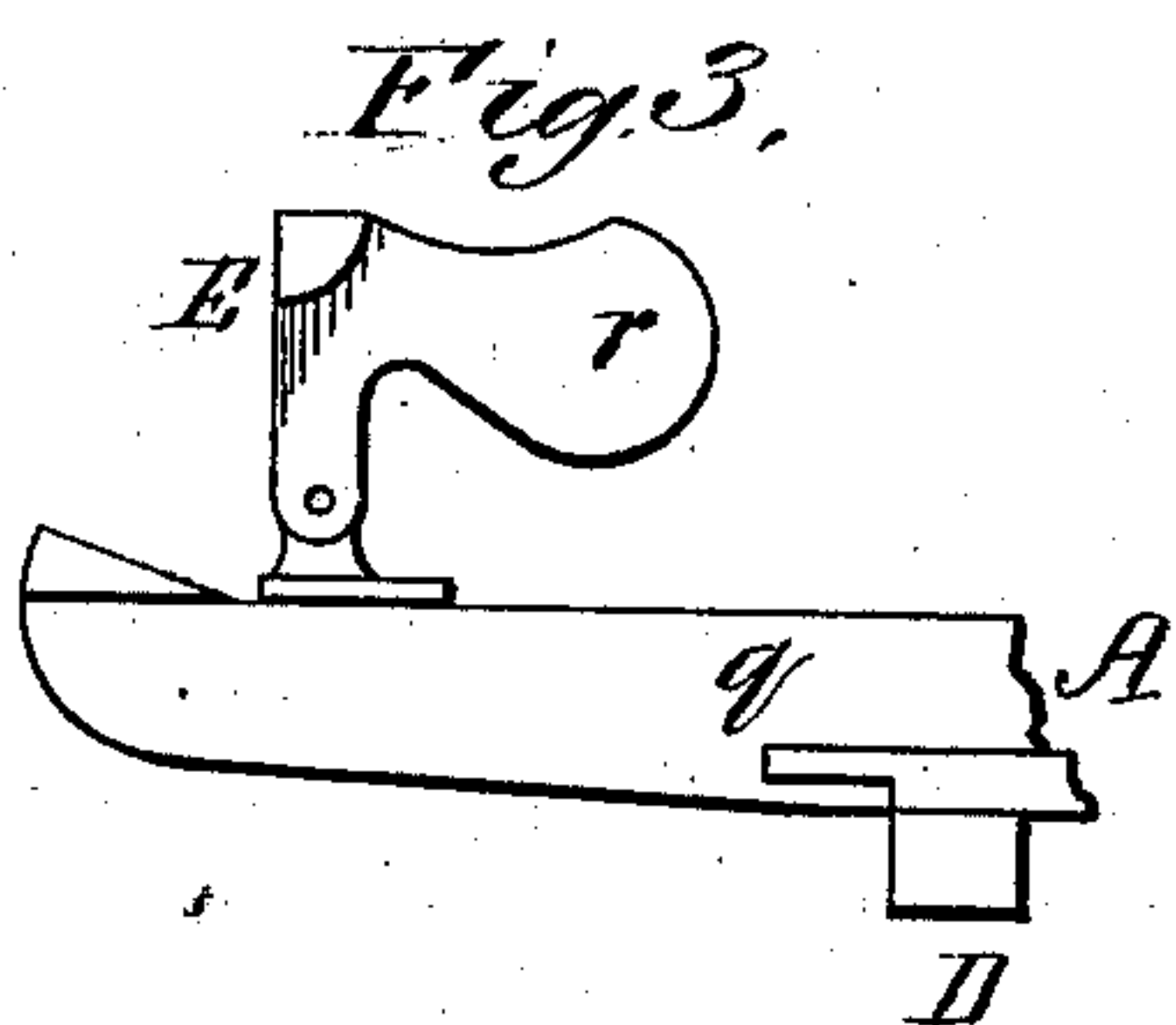
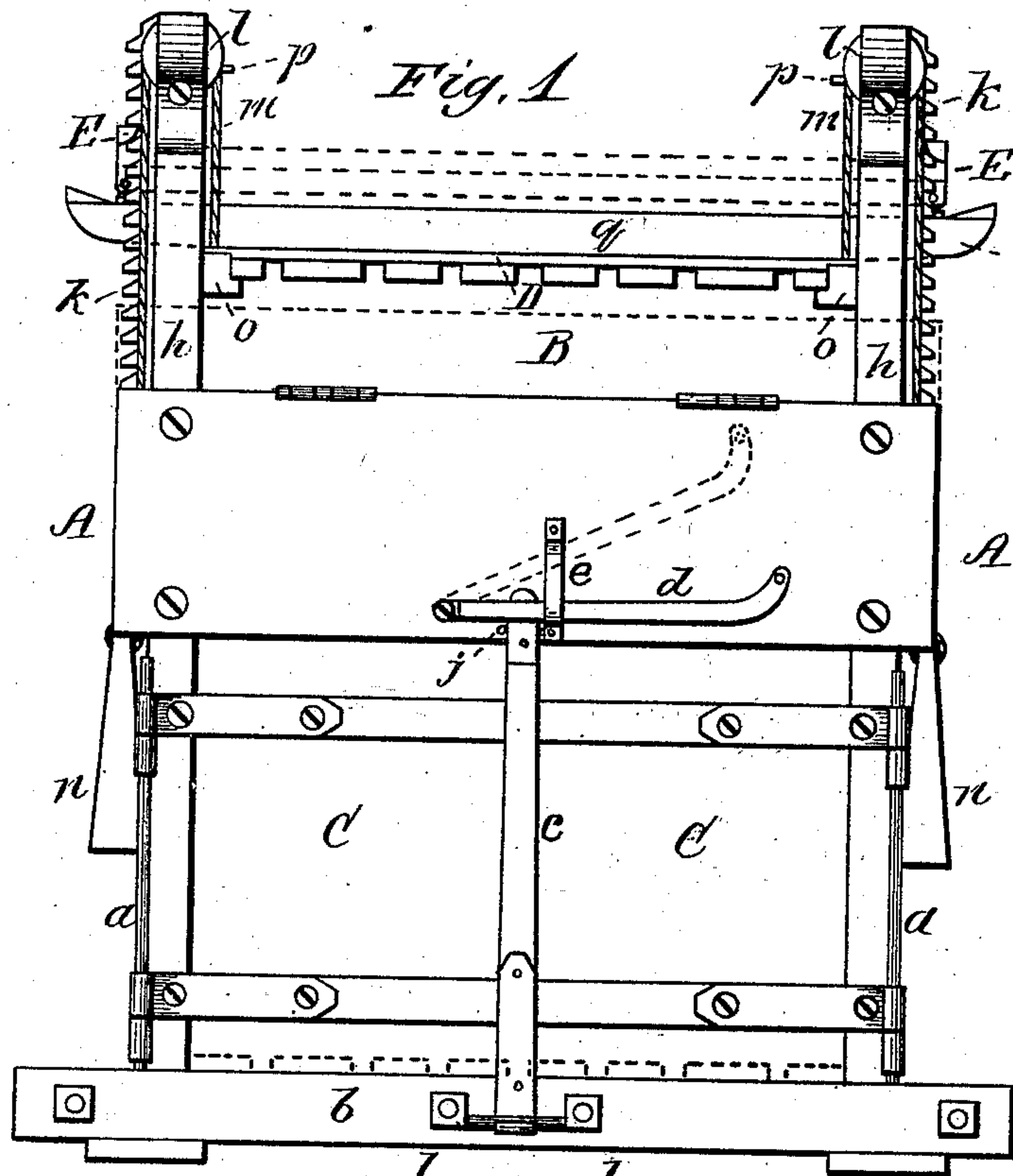


G. WYCKOFF.
Baling-Press.

No. 214,544.

Patented April 22, 1879.



WITNESSES
Nat. E. Oliphant
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UNITED STATES PATENT OFFICE

GARRET WYCKOFF, OF FLEMINGTON, NEW JERSEY.

IMPROVEMENT IN BALING-PRESSES.

Specification forming part of Letters Patent No. **214,544**, dated April 22, 1879; application filed March 4, 1879.

To all whom it may concern:

Be it known that I, GARRET WYCKOFF, of Flemington, in the county of Hunterdon and State of New Jersey, have invented a new and valuable Improvement in Baling-Presses; 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 representation of a side elevation of my invention. Fig. 2 is an end view of the same. Fig. 3 is a detailed view of the weighted pawl, showing it attached to the end of the follower. Fig. 4 is a similar view of the head of the operating-lever.

This invention has relation to baling-presses used for the purpose of compressing and baling cotton, hay, and for other uses to which such presses may be found of value; and the object of the present invention is to provide a simple and effective means for operating the platen or follower, and the manner of connecting the same with weights and cords, and the general construction of the frame or body of the press, as will be hereinafter described, and subsequently pointed out in the claims.

In the accompanying drawings, A represents the frame or body of the press, of wood or other suitable material, having hinged to its sides, at the top and bottom thereof, doors B C. The doors C are hung or suspended upon vertical rods *a*, which are removable when necessary, to detach said doors from the frame or body of the press.

To the side beams, *b*, of the frame or body A are detachably hinged or pivoted bars *c*, and to the body or frame, above the doors C, is a pivoted locking device, *d*, working in the staple *e*. One of these locking devices and bar *c* are upon each side of the frame or body A, and when the doors C are properly closed the pivoted locking devices *d* are raised sufficiently to allow the bars *c* being brought vertically against the doors, after which the devices *d* are allowed to fall in a horizontal position, or otherwise brought down over the ends of the bars *c*, in which position the devices firmly lock and hold the bars against

the doors, thereby preventing the pressure within the frame or body A against the doors from forcing them open or straining and racking them. The upper doors, B, which open in a direction toward the base of the frame or body, are provided with horizontal braces *f*, the ends thereof being recessed, so as to partly embrace or fit over the sides *h* of the body or frame A, and the doors are held closed by latches *g* fitting over the braces *f*.

It will be noticed that the locking devices *d*, upon their inner sides, are recessed to receive the ends of the bars *c* and hold them in a vertical position; also pins *j* assist the bars in being brought to a vertical line, or in such position as will register with the recesses in the locking devices.

The frame or body A may be strengthened by rods, beams, and cross-bars; or any other means may be employed to add strength and durability to said frame or body. The ends *h* of the body or frame A are formed with vertical elongated recesses *i*, and upon each side thereof is a ratchet-plate, *k*; and secured to the upper ends of the sides *h*, upon each side of the recesses *i*, are pulleys *l*, over which are cords *m*, resting in grooves upon the periphery of said pulleys.

One end of the ropes or cords *m* pass over the pulleys *l*, upon the outside of the body or frame A, and have attached thereto weights *n*. The other ends of the cords *m* are secured to a horizontal support, *o*, there being two supports upon which rests the follower D. The supports *o* are prevented from being drawn over the ends of the sides *h* by stops *p*, secured to the sides near the top. The follower D has secured thereto a beam, *q*, somewhat longer than the follower, or of such length that when the follower is in place and resting upon the supports *o*, the ends of the beam *q* will pass through the recesses *i* and beyond the sides *h* of the body or frame A.

To each end of the beam *q* is hinged or pivoted a pawl, E, formed or provided with a weight, *r*, as illustrated in Fig. 3 of the drawings. This weight automatically throws the pawl E in position to engage with the teeth of the ratchet-plate *k*; and when the pawl is brought to the proper distance beyond the pivotal point or thrown back, the weight will

hold and retain it disengaged with the teeth of the ratchet-plate, and the weights *n* upon the ends of the cords *m* elevate the supports *o*, and with it the follower D.

To operate the pawls E, I employ a lever, F, provided with a head, G. This head is of a suitable metal, with teeth *s* and bearing-arm *t*.

In using the tool the head G is placed over and down upon the end of the beam *q*, and the teeth *s* fitting between the ratchet-teeth of the plate *k*, and in this position the lever is brought down at an angle sufficient to release the pawl E, and allow it by the weight *r* to engage with the next ratchet-tooth below it, the lever F acting as a compound lever.

A press constructed according to my invention is equally well adapted to press liquid as well as dry matter in a quick and effective manner, and the manner of operating the follower renders it automatic in releasing itself from the bale and ascending to the top of the frame or body A; and a press can be made effective and durable, so that there will be no danger from breakage.

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

1. A baling-press provided with hinged doors C, the same being retained closed by the hinged or pivoted bars *c*, and the pivoted locking devices *d* and staples *e*, said devices *d* being recessed to receive the ends of the bars, substantially as and for the purposes set forth.

2. The combination, with the ratchet-plates *k*, of the weighted pawls E and the lever F, having head G, formed with teeth *s* and bearing-arm *t*, substantially as and for the purpose described.

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

GARRET WYCKOFF.

Witnesses:

HENRY A. FLUCK,
JACOB M. BELLIS.