

No. 814,282.

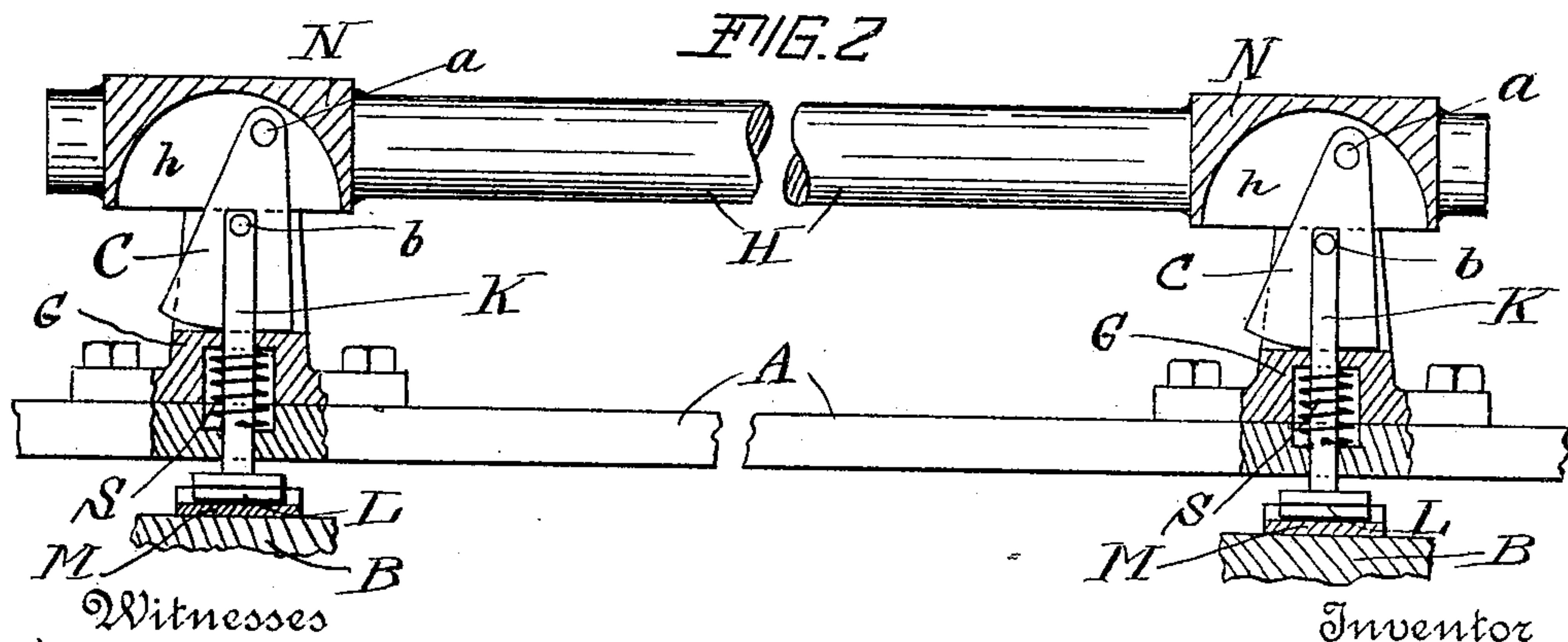
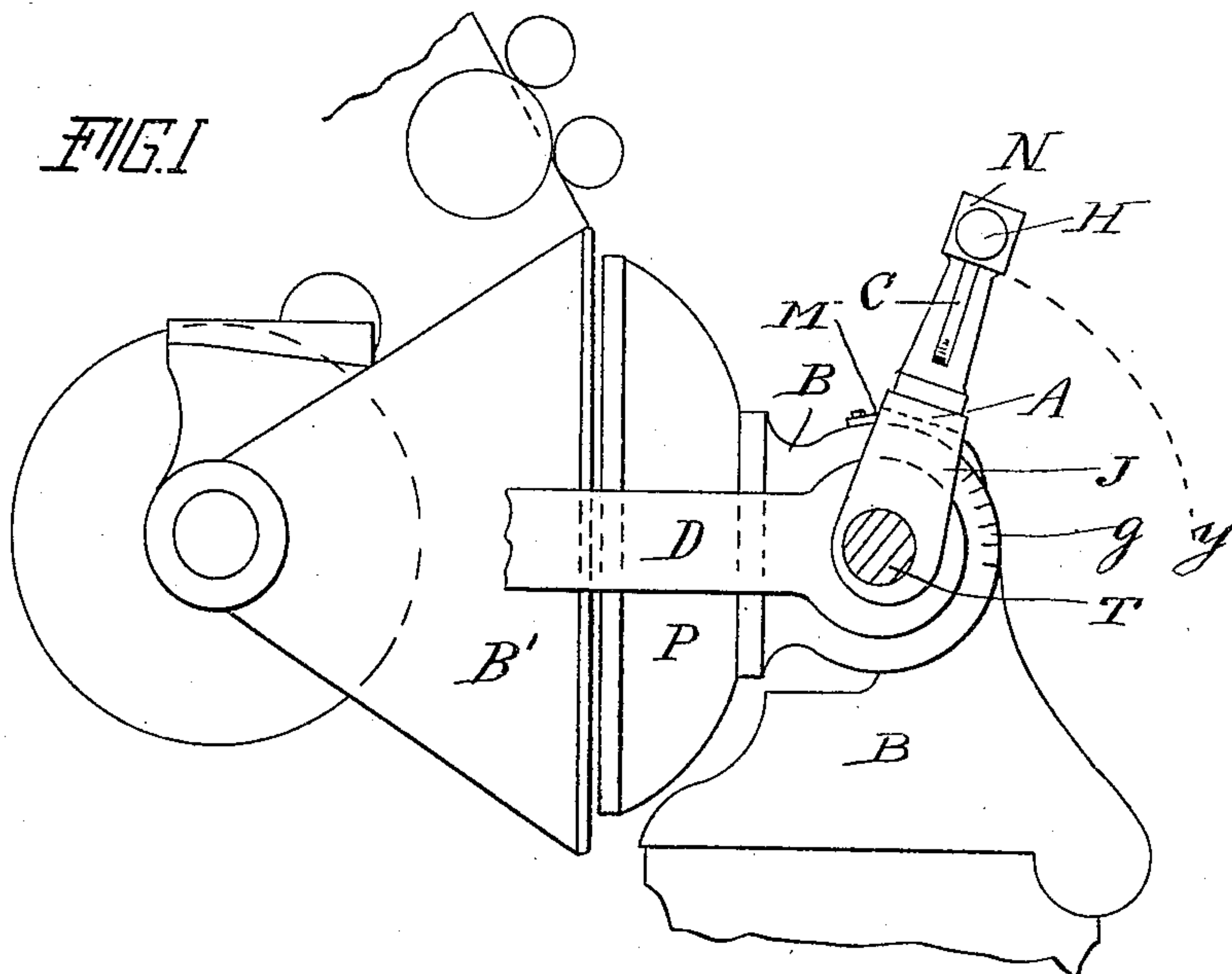
PATENTED MAR. 6, 1906.

M. GALLY.

IMPRESSION THROW-OFF FOR BED AND PLATEN PRESSES.

APPLICATION FILED OCT. 25, 1905.

2 SHEETS—SHEET 1.



Witnesses
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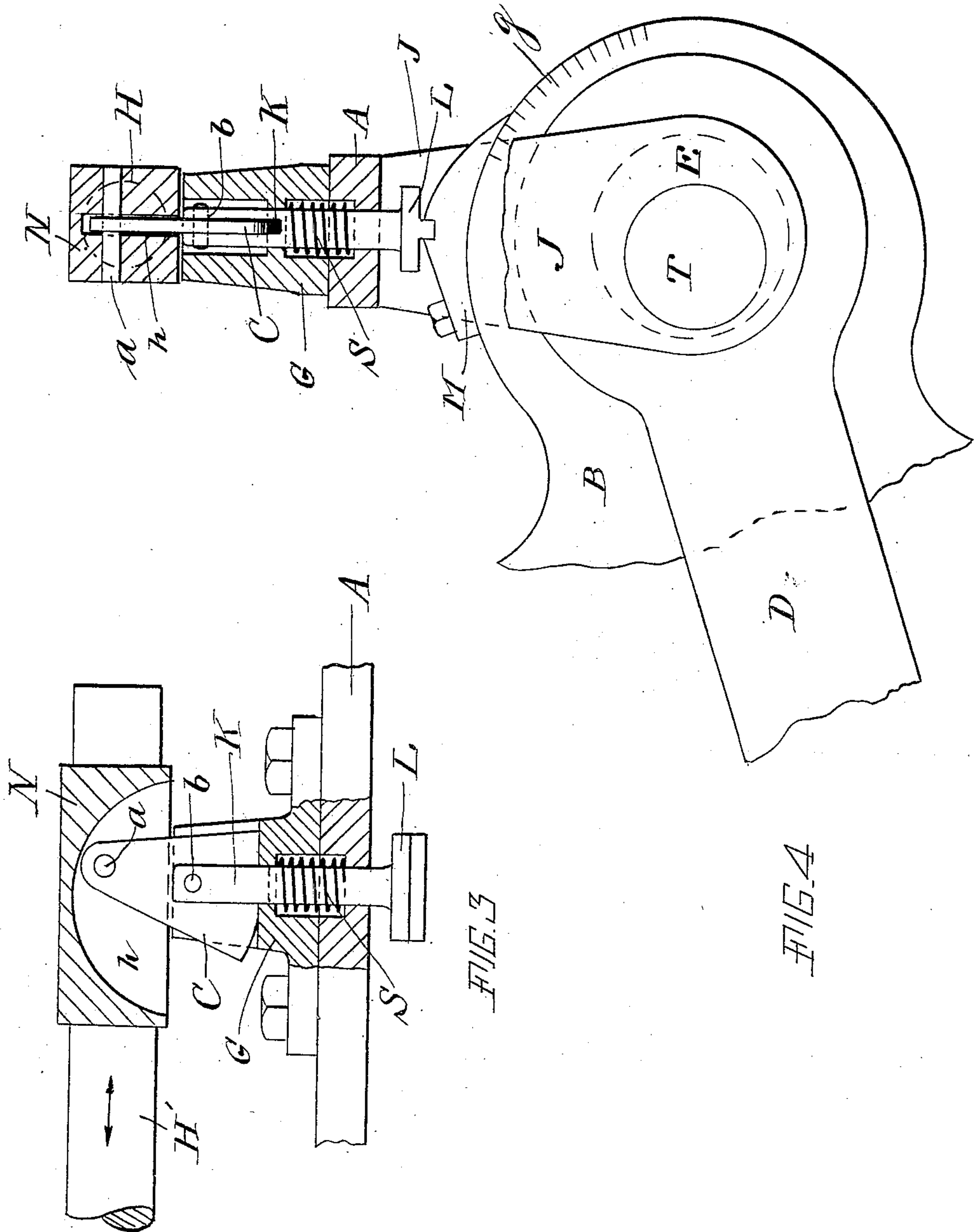
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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IMPRESSION THROW-OFF FOR BED-AND-PLATEN PRESSES.

No. 814,282.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed October 25, 1905. Serial No. 284,353.

To all whom it may concern:

Be it known that I, MERRITT GALLY, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Impression Throw-Offs for Bed-and-Platen Presses, of which the following is a specification.

My invention relates to the matter of rendering inoperative the impression apparatus of bed-and-platen presses adapted for printing, embossing, paper-box cutting, and the like; and it consists in an improved construction of "impression throw-off" having great certainty of operation and light resistance to the operator.

In the accompanying drawings, Figure 1 is a side elevation of a printing-press with my improved throw-off. Fig. 2 is a front elevation, partly sectional, of my improved throw-off device. Fig. 3 is a front view, partly sectional, showing detail of my latch-operating device; and Fig. 4 an end view, partly sectional, showing detail of my device and its connection with the bridge-eccentric and draw-bar of a printing-press.

With the "impression-throw-off bar" with eccentric adjusting and throw-off sleeves of my well-known "Universal" press and others latches L L are employed for holding the press on the impression by one position of the sleeves. Releasing the latches by raising upward the handle-bar and turning the eccentric sleeves to another position by throwing downward the adjuster-bar throws off the impression by relieving the draft of the impression draw-bars. As there are preferably two latches L L, one toward each end of the throw-off bar, it usually requires the work of both hands of the operator to throw off the impression, and the movement being upward makes it also difficult, being a direct lift against the springs of the latches. If the bar is grasped anywhere but midway of the two latches, it is liable to raise only the latch nearest that hand, and thus fail to release the adjuster-bar. The sweep of the handle-bar is necessarily so great in throwing off the impression that no device with an added movement in the same direction or on the same sweep for independently relieving the latches preparatory to the "throw-off" movement is good, although such means have been used. Such construction not only makes the general sweep too great, resulting in frequent inability to perform the entire operation on

time, but the double movement made up of two in the same direction and differing much in the power required makes the operation of such device difficult and unpleasant to the operator.

In my improved construction instead of attaching the bar H to the latch-rod K for lifting the latch directly, as in former structures, I cut this latch-rod K short, Figs. 2, 3, and 4, and pivot to it and to the handle-bar H an intermediate cam C, made, preferably, thin, so as to be placed in a slot milled into the latch-rod, and a corresponding slot h milled into the handle-bar to receive the cam. For convenience the slot or chamber h is cut with a flat circular milling-tool, which provides room for the swinging of the cam when the handle-bar is moved longitudinally. The cam c rests on the bottom of a corresponding slot cut in the standard G. Now as the handle-bar is grasped to throw the bar downward in its sweep a slight simultaneous pull to the left carries the bar sufficiently in that direction to turn the cam C on its pivot b, lifting the latch L against the spring S, and thus relieving the latch from the catch M, mounted on the bridge B, as shown in Fig. 4. When two latches are employed, no matter what part of the bar H' is grasped by the hand the simultaneous movement of both latches is assured, and no cramping or uncertain action is possible. A pressman usually operates the throw-off by his left hand, so a natural pull of his arm in a line diagonal to the bar H' accomplishes both the unlatching and the downward throw of the bar by a single easy movement.

In very rapid feeding many careful pressmen rest the left hand on the throw-off bar as the platen moves toward the impression to be ready to instantly operate the throw-off to save a misplaced sheet. With my longitudinally-movable bar H' there is no danger of accidental throw-off by an inadvertent forward pull, as with devices having the unlatching movement in the same direction as the throw-off, and the pressman can drag on the bar with safety, as has been his custom with the old-style straight-lift unlatching-bar H of Fig. 2.

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

1. In a bed-and-platen press; in combination with the eccentric means of the impression throw-off; a throw-off bar, a handle-bar parallel to the throw-off bar, a latch, and a

cam pivoted to the latch and to the handle-bar, the handle-bar having a longitudinal movement in line with the throw-off bar for operating the cam and relieving the latch.

5 2. The combination with the eccentric means of the impression throw-off of a bed-and-platen press; of the throw-off bar and a holding-latch, and a coacting handle-bar
10 longitudinal movement for operating the latch.

3. The combination with the eccentric means of the impression throw-off of a bed-and-platen press; of a holding-latch, and a
15 handle - bar parallel with the axis of the bridge and having a longitudinal movement for operating the latch.

4. The combination with the eccentric

means of the impression throw-off of a bed-and-platen press; of two holding-latches and
20 a handle - bar connected with both said latches and operably movable longitudinally of its axis and parallel with the axis of the platen-bridge.

5. The combination with the eccentric
25 means of the impression throw-off of a bed-and-platen press; of two holding-latches and a connecting means coacting with both said latches and operably movable longitudinally of its axis and parallel to the axis of the
30 bridge.

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Witnesses:

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