(Model.)

# T. REICHARD.

## PRINTING PRESS.

No. 305,534. Patented Sept. 23, 1884.

Fig. 1

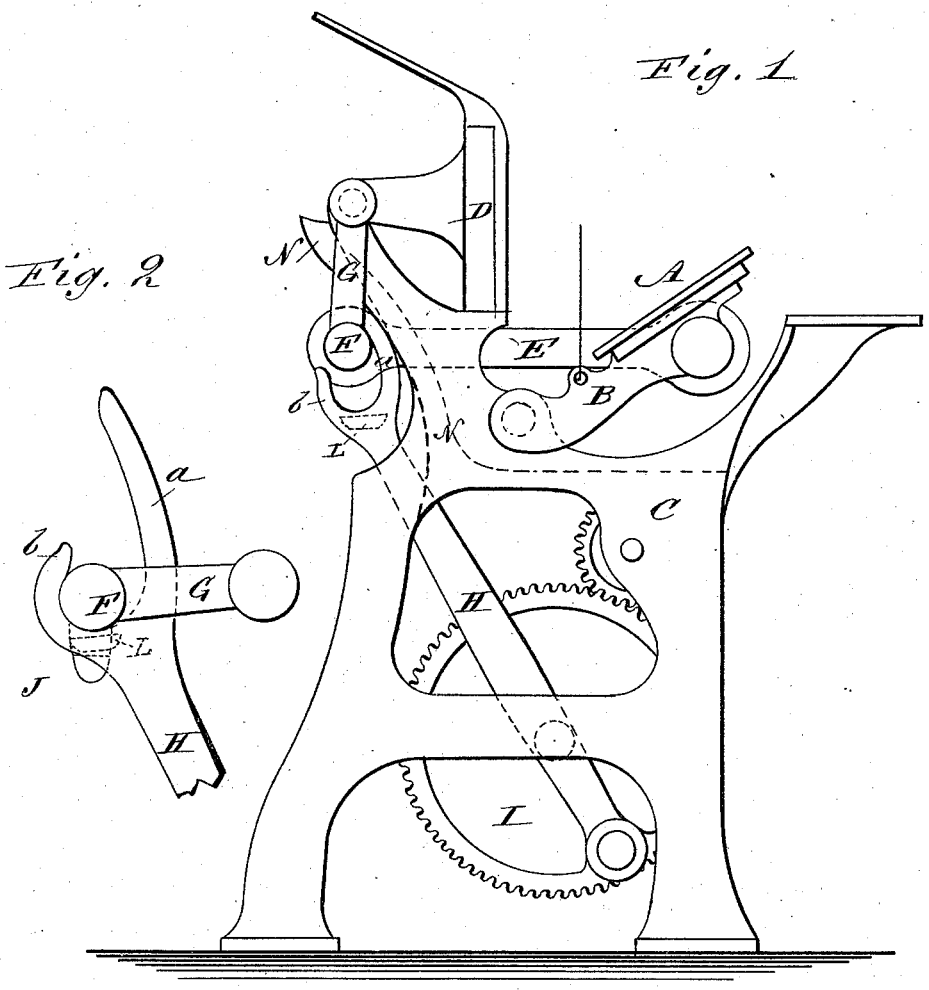
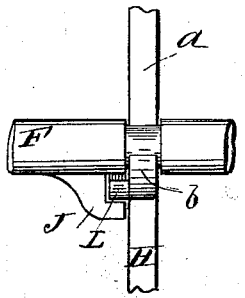



Fig. 2




Fig. 3

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# UNITED STATES PATENT OFFICE.

THEOPHILUS REICHARD, OF NEW YORK, N. Y., ASSIGNOR TO JOSEPH WATSON, OF NEWARK, NEW JERSEY.

## PRINTING-PRESS.

SPECIFICATION forming part of Letters Patent No. 305,534, dated September 23, 1884.

Application filed April 10, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, THEOPHILUS REICHARD, of the city, county, and State of New York, have invented a new and useful Improvement in Printing-Presses, of which the following is a full, clear, and exact description.

The invention consists of the combination of parts and their construction, substantially as hereinafter fully set forth, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of a printing-press provided with my improvement. Fig. 2 is an enlarged side view of the upper end of the forked bar. Fig. 3 is a front edge view of the same.

The platen A is provided with arms B, pivoted to the press-frame C in such a manner that the platen can swing toward and from the type-bed D. Side bars, E, have one end pivoted to the platen, and the other ends are pivoted to the ends of a swinging shaft, F, provided with arms G, pivoted in the upper part of the press-frame C, so that the said shaft F can swing. A bar, H, is pivoted to a cog-wheel, I, operated in some suitable manner from the driving-shaft of the machine, whereby a reciprocating movement is given to the bar H. The bar H is forked or bifurcated at its upper end to embrace the shaft F, preferably reduced at that point to receive said end of bar, the inner prong, *a*, being made long and curved rearward from the short prong *b*, and then curved upward and slightly forward. Said prong *a* is controlled in its upward movement by contact with the curved guide or track N. Upon one side of the bar H, just below the notch of its bifurcated upper end, is a projection, L, and upon the shaft F is a notched projection, J, which is so disposed thereon that when the shaft has been elevated, as shown in Fig. 2, the projection L of the bar H will have passed into the notch of the shaft projection J, whereby the bar and shaft are connected together to effect the carrying downward of the shaft by the bar as the latter descends.

The operation is as follows: When the bar H is raised, its forked end, guided by the track N, has swung the swinging shaft upward, as shown in Fig. 2, and thereby the platen A is swung up against the type-bed, and the impression is made. As the bar H moves downward, it permits the platen A to swing down into the position shown in Fig. 1, but the bar H still continues to move downward after the platen A has been brought into the said position. The prong *a* slides down between the shaft F and the curved guide-track N, but does not draw the swinging shaft down with it, and holds the platen from swinging down farther, as it prevents the platen from drawing the swinging shaft F toward the guide N to accomplish the said downward swinging movement. If the bar H is moved upward, the prong *a* slides up the guide N, and then the upper end of the bar H swings the shaft F upward, and thereby presses the platen against the type-bed. The platen is thus held at rest for a short time every time it is lowered, and thus permits of easily removing the printed sheet and replacing it by a fresh sheet, allowing sufficient time for this operation. The projection L on the bar H catches into the notch of the projection J of the swinging shaft and draws it down, but has passed out of the notch when the platen has been swung down as far as necessary, so that the said projection L will not interfere with the further downward movement of bar H.

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

In a printing-press, the combination, with the swinging shaft F, connected with the platen A, of the reciprocating bar H, having two prongs, *a b*, the notched projection J on the shaft F, and the side projection, L, on the bar H, substantially as herein shown and described, and for the purpose set forth.

THEOPHILUS REICHARD.

Witnesses:
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