

(No Model.)

G. W. PROUTY.

INK FOUNTAIN FOR PRINTING PRESSES.

No. 386,350.

Patented July 17, 1888.

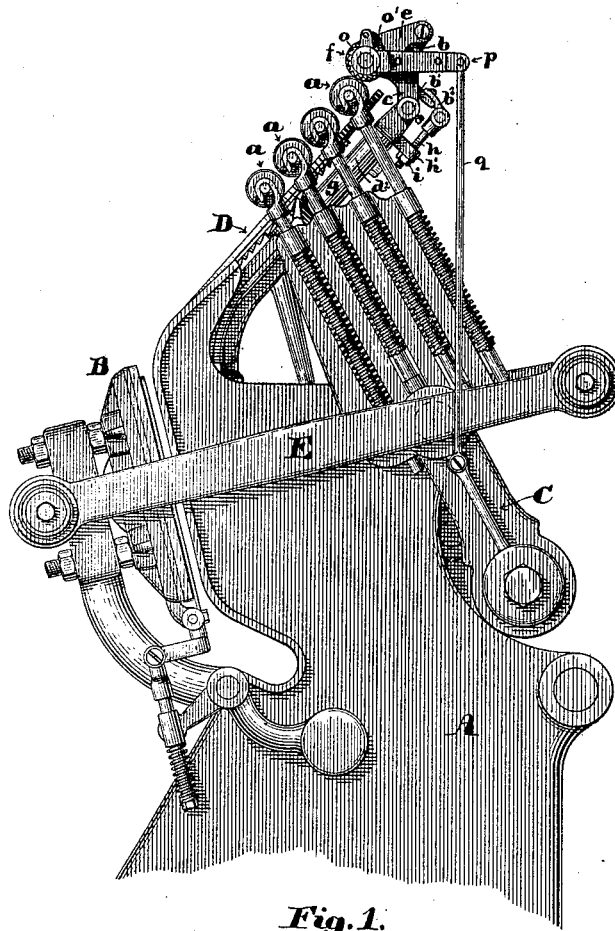


Fig. 1.

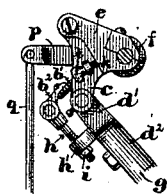


Fig. 3.

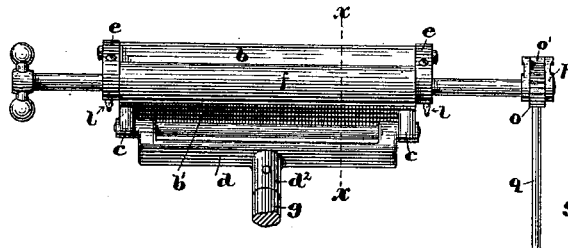


Fig. 2.

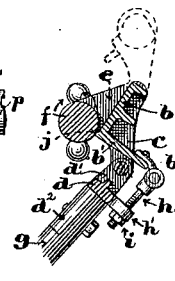


Fig. 4.

Witnesses:
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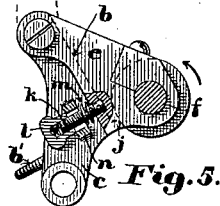


Fig. 5.

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UNITED STATES PATENT OFFICE.

GEORGE W. PROUTY, OF BOSTON, MASSACHUSETTS.

INK-FOUNTAIN FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 386,350, dated July 17, 1888.

Application filed November 7, 1887. Serial No. 254,480. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PROUTY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Ink-Fountains for Printing-Presses, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to ink-fountains for printing-presses; and it consists in certain novel features of construction, combination, and arrangement of parts, which will be readily understood by reference to the description of the drawings and to the claims to be hereinafter given, and in which my invention is particularly pointed out.

Figure 1 of the drawings is an elevation of so much of a printing-press having my improved ink-fountain applied thereto as is necessary to the proper understanding of my invention. Fig. 2 is a front elevation of my improved fountain. Fig. 3 is an end elevation of the same, the ratchet-operating lever being cut away. Fig. 4 is a vertical transverse section of the same on line *x x* on Fig. 2; and Fig. 5 is an end elevation of the fountain, drawn to an enlarged scale, with a portion of the adjusting mechanism shown in section.

In the drawings, A is the frame of the machine, B is the platen, C is the inking-roller-carrying frame, D is the ink-distributing table, *a a* are the inking-rollers, and E is one of the platen draw-bars, all constructed and operating in a well-known manner.

My improved ink-fountain is composed of the plate *b*, ribbed upon its back side, and provided with the ears *c c*, by which it is pivoted to the ears *d' d'* of the bar *d*, the end pieces, *e e*, pivoted to said plate at its upper edge, one at each end, and the roll *f*, mounted in bearings in said end pieces, as shown. The bar *d* is provided with a central hub, *d²*, upon the side opposite to the ears *d'*, by which it is secured to the hub *g*, projecting from the stand which supports the ink-distributing table. The wider rib, *b'*, of the plate *b* has secured to or formed upon its lower edge an ear or hub, *b²*, to which is pivoted the bolt *h*, which projects through the ear *h'* on the bar *d*, and is provided with the adjusting-nut *i*, by means

of which bolt and nut the fountain may be adjusted to the desired position to insure contact between the roll *f* and the upper inking-roll, *a*, when said roll is at the extreme of its upward movement. The end pieces, *e e*, are movable about their pivots for the purpose of adjusting the roll *f* to a greater or less distance from the front edge of the shallow rib *j*, formed on the lower edge of the front face of the plate *b*, by means of the screws *k*, nuts *l*, and the springs *m*, said screws being secured to said end pieces, one to each, and pass through slots in the ears *n*, projecting laterally from the ears *c c* of the plate *b*, as shown. By removing the nuts *l* the end pieces carrying the roll *f* may be moved upward into the position shown in dotted lines in Fig. 4, to facilitate the cleaning of the parts. The roll *f* has an intermittent rotary motion imparted thereto by the ratchet-wheel *o*, secured to the shaft of said roll, the pawl *o'*, the lever *p*, carrying said pawl, and the rod *q*, connecting the free or movable end of said lever *p* to the inking-roller-carrying frame C, all as shown in Fig. 1, said roller-carrying frame being vibrated in any well-known manner.

The operation of my invention is as follows: The parts being in the positions shown in the drawings, the ink is placed between the roll *f* and the inclined front face of the plate *b*, and as the machine is operated and the inking-rollers descend to ink the form the lever *p* is raised and the pawl *o'* is carried over one or more teeth in the ratchet-wheel, and when the said rollers are moved upward again said pawl engages with the ratchet-wheel and imparts a partial rotation to the roll *f* in the direction indicated in Figs. 4 and 5 by the arrow shown thereon. The roll *f*, when so rotated, carries upon its surface a certain thin coating of ink, the thickness of which is regulated by the adjustment of said roll to or from the rib *j*, which serves as a "doctor-plate" to gage the thickness of the film of ink upon said roll. The upper inking-roller *a*, when it reaches the extreme of its upward movement, comes in contact with the roll *f* and receives therefrom a portion of the ink upon its surface and deposits it upon the ink-distributing table D.

The advantages of this fountain are its cheap-

ness of construction, ready adjustment, and its adaptability to be easily cleaned and kept in order.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. An ink-fountain for printing-presses, composed of an inclined plate, two pivoted and movable end pieces, and an intermittently-revoluble roll having its bearings in said movable end pieces, and arranged to be revolved with its periphery in near proximity to the lower portion of the front face of the said inclined plate, and forming one side of the ink-receptacle.

2. The combination of the plate *b*, the movable end pieces, *ee*, the roll *f*, mounted in bearings in said end pieces, the adjusting-screws *k*, the nuts *l*, and the springs *m*, all constructed, arranged, and operating substantially as and for the purposes described.

3. The combination of the inclined and piv-

oted plate *b*, the end pieces *ee*, the roll *f*, the screw-bolt *h*, pivoted to the rear of said plate, the nut *i*, and the bar *d*, provided with the ears *d'* *d''* and *h'*, all constructed, arranged, and adapted to operate substantially as described.

4. The combination of the pivoted inclined plate *b*, the pivoted and movable end pieces, *ee*, the roll *f*, mounted on said end pieces, the screws *k*, nuts *l*, and springs *m*, for adjusting the roll *f* relative to the plate *b*, and the screw *h* and nut *i*, for adjusting the roll *f* and plate *b* relative to the inking-rollers *a*, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 5th day of November, A. D. 1887.

GEORGE W. PROUTY.

Witnesses:

N. C. LOMBARD,
WALTER E. LOMBARD.