J. X. BROWNE.

Inking Fountain for Printing Machines.

No. 229,303. Patented June 29, 1880.

FIG. 1.

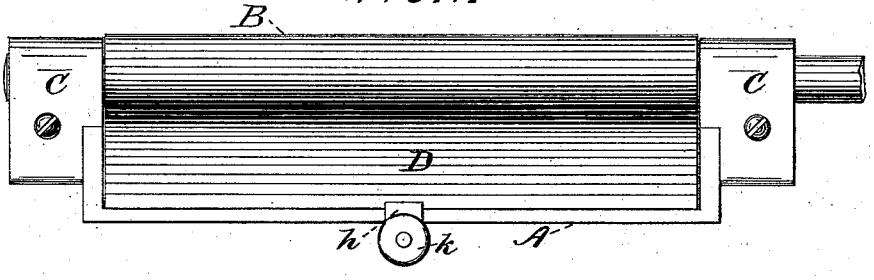


FIG. 2.

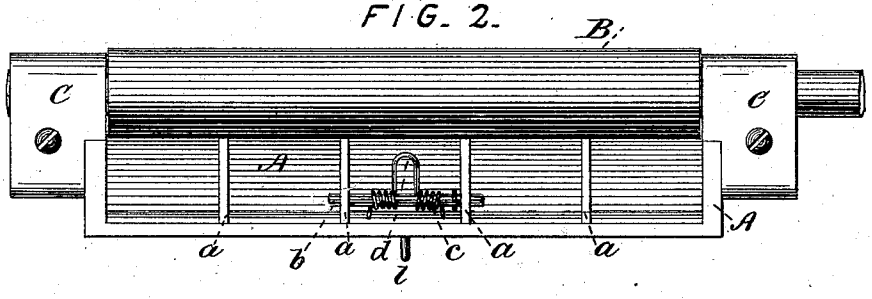


FIG. 3.

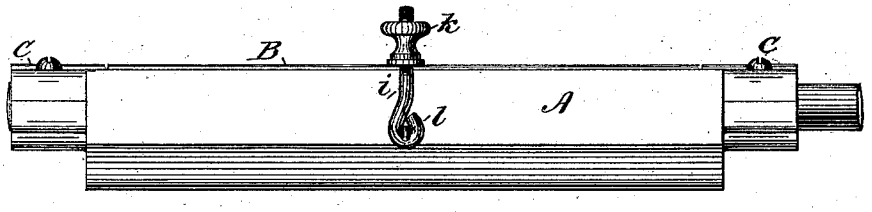


FIG. 4.

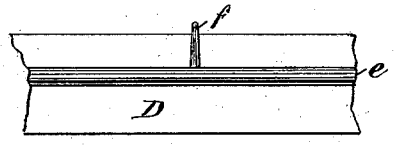
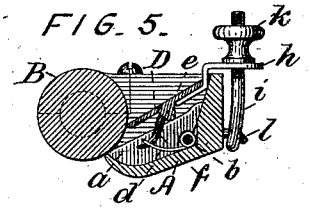


FIG. 5.



WITNESSES.

Sidney Doane

William H. Hicks

INVENTOR.

John X. Browne

UNITED STATES PATENT OFFICE.

JOHN X. BROWNE, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO CHARLES H. QUAIL, OF SAME PLACE.

INKING-FOUNTAIN FOR PRINTING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 229,303, dated June 29, 1880.

Application filed October 14, 1879.

To all whom it may concern:

Be it known that I, JOHN X. BROWNE, (assignor of one-half interest to CHARLES H. QUAIL,) of Brooklyn, Kings county, New York, have invented, made, and applied to use Improvements in the Construction of Fountains for Printing-Presses; and I do hereby declare that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a top view of my improved fountain. Fig. 2 is a view of the same, the knife being removed. Fig. 3 is a rear view of the fountain. Fig. 4 is a view of the under side of the knife. Fig. 5 is a transverse section of the fountain.

In the drawings like parts of the invention are indicated by the same letters of reference.

The nature of the present invention relates to improvements in the construction of fountains for printing-presses, as more fully hereinafter set forth, and will be found to relate to the class of fountains more frequently employed in job-printing presses.

To enable those skilled in the arts to make and use my invention, I will describe its construction and operation.

A shows the trough or lower portion of the fountain, in the front portion of which is inserted the duct-roller B, free to revolve in the boxes C, attached at each end of the trough A.

The interior of the trough A is provided with the inclined ribs *a*, and about centrally with a rod, *b*, around which is wound the wire *c*, terminating in an eye or loop, *d*.

D shows the knife of the fountain, provided upon its under side with the rib or projecting strip *e*, and to this rib or projecting strip *e* is attached the tongue *f*.

Back of the knife D projects, about centrally, a plate, *h*, provided with a slot, through which passes a hook-bolt, *i*, over the upper end of which is passed a thumb-screw, *k*.

At the rear outer side of the trough A, about centrally, is placed a pin, *l*, with which, when the knife D is placed in position in the trough A, the hook of the bolt *i* engages.

The knife D, when placed within the trough A, has the rib or projecting strip *e* supported upon the inclined ribs *a*, upon which, as the position of the knife D relatively to the duct-roller B is changed, it may be said to rock, and in this position the tongue *f* is received within the eye or loop *d*.

The hook of the bolt *i* engages with the pin *l*, placed in the rear outer side of the trough A.

Such being the construction, the operation will be readily understood.

The knife is placed within the trough or lower portion of the fountain, as already described, and the ink to be supplied to the duct-roller is placed upon the knife, which occupies the inclined position clearly shown in Fig. 5 of the drawings, by which the flow of the ink is facilitated; and by turning the thumb-screw *k* upon the upper portion of the hook-bolt the position of the knife relatively to the duct-roller may be varied. If the screw be depressed, the lower edge of the knife is brought nearer the duct-roller, and a less quantity of ink will be taken up by the duct-roller in its revolution than if the screw be elevated (so to speak) and the lower or forward edge of the knife be brought away from the duct-roller, the knife, as previously stated, having a rocking motion imparted to it by screwing or unscrewing the thumb-screw *k*.

A fountain thus constructed can be easily taken apart for cleaning, and will be found economical in the use of inks for printing purposes.

Having now set forth my invention, what I claim as new is—

The combination, with a trough, A, ribbed, as at *a*, and provided with a loop or eye, *d*, of the knife D, having upon its under side the rib or projecting strip *e* and tongue *f*, the slotted plate *h*, hook-bolt *i*, thumb-screw *k*, and pin *l*, constructed and operating substantially as and for the purposes set forth.

JOHN X. BROWNE.

In presence of—
WILLIAM V. H. HICKS,
A. SIDNEY DOANE.