(No Model.)

L. K. BINGHAM.

APPARATUS FOR MAKING PRINTERS' ROLLERS.

No. 456,876. Patented July 28, 1891.

Fig. 1

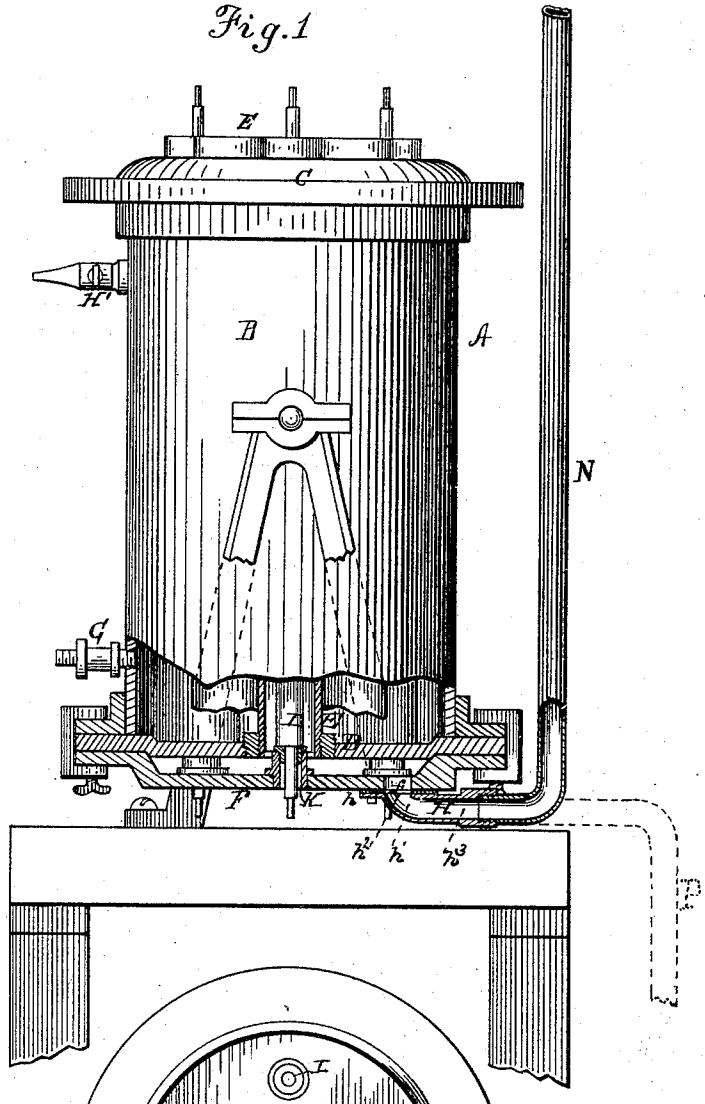
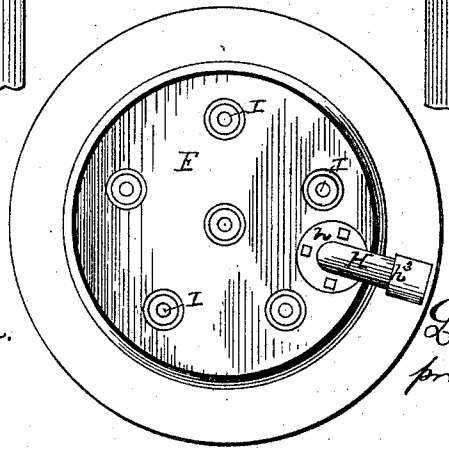


Fig. 2.



Witnesses
Thos Houghton.
F Fadeley

Inventor
Leander K. Bingham.
per W. H. Singleton
Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LEANDER K. BINGHAM, OF NEW YORK, N. Y.

APPARATUS FOR MAKING PRINTERS' ROLLERS.

SPECIFICATION forming part of Letters Patent No. 456,876, dated July 28, 1891.

Application filed February 15, 1889. Serial No. 299,948. (No model.)

To all whom it may concern:

Be it known that I, LEANDER K. BINGHAM, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Apparatus for Making Printers' Rollers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side view of an apparatus containing the invention, part being in section. Fig. 2 is a bottom view.

The invention consists in an apparatus having the details of construction hereinafter set forth.

In filling the tubes in this way it is obvious that the composition on rising in the tubes only has a pressure due to the amount descending the tube down which it is poured, and as the composition rises this pressure of course diminishes and renders it difficult to fill all the tubes.

The present invention is designed so as to enable the composition to be introduced into the apparatus with such pressure as to insure its quickly filling the mold-tubes.

It consists, broadly, in providing the apparatus with a roller-composition inlet at the bottom, through which roller composition is introduced under pressure, as will be hereinafter set forth.

In the annexed drawings, the letter A indicates an apparatus for molding printers' rollers. This apparatus A consists of the cylinder B, having the top head C and bottom head D. Within the cylinder are the mold-tubes E, held in openings in the heads C and D. To the head D is clamped the common supplemental bottom F. The cylinder B has the steam and water inlet G and overflow H'. These features are all old. Within the tubes E are placed the roller-stocks I, and they are held by the spiders K, as usual. Now to such an apparatus my invention is to be applied, though it may be applied to an apparatus varying in details from the above. To this apparatus an inlet is to be made at the bottom. The supplemental bottom F has made in it a hole *f*, leading into the apparatus. To the under side of this bottom is secured the inlet H. This tube has a flange *h*, by which it is fastened to the bottom F, and at the top of its rear end *h'* is an opening h^2, which registers with the hole *f*. The inlet H has a tubular extension h^3 beyond the edge of the bottom, which extension has a threaded end. This tube forms a roller-composition inlet, through which roller composition is introduced to the apparatus at the bottom. For the introduction of the composition through this inlet various means may be adopted. I have shown two. The pipe N in full lines is connected to the inlet at the outer end of the inlet H, and, running up to any convenient height, is connected with a composition receptacle, (not necessary to be shown,) the pipe N thus being a composition-supply pipe. The length of this pipe N should be sufficient to get a good head, so as to produce due pressure at the bottom of the apparatus. The roller composition is to pass down the pipe N through the inlet and up into the mold-tubes until it reaches the proper height, when the flow is stopped.

Instead of a pipe N leading up, a pipe P, (shown in dotted lines) may lead from the inlet to a force-pump and the composition be forced into the apparatus. In either case the roller-composition is introduced under pressure into the bottom of the apparatus and up into the mold-tubes under pressure.

Having described my invention, what I claim is—

1. In an apparatus for making printers' rollers, the cylinder provided with perforated heads and with the mold-tubes held in such heads, in combination with the removable bottom common to all the mold-tubes, such bottom having a hole from which a composition-inlet extends, as set forth.

2. In an apparatus for making printers' rollers, the combination of the cylinder A, provided with the mold-tubes E and a perforated bottom head D, and the bottom F, provided with the composition inlet, the bottom being in contact with the bottom head, whereby the mold-tubes can be filled through one inlet, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LEANDER K. BINGHAM.

Witnesses:
THOS. HOUGHTON,
M. DARIAN.