Jan. 26 , 1926. 1,570,857

J. F. PERKINS

INKING ROLLER

Filed August 6, 1924

Fig. 1.

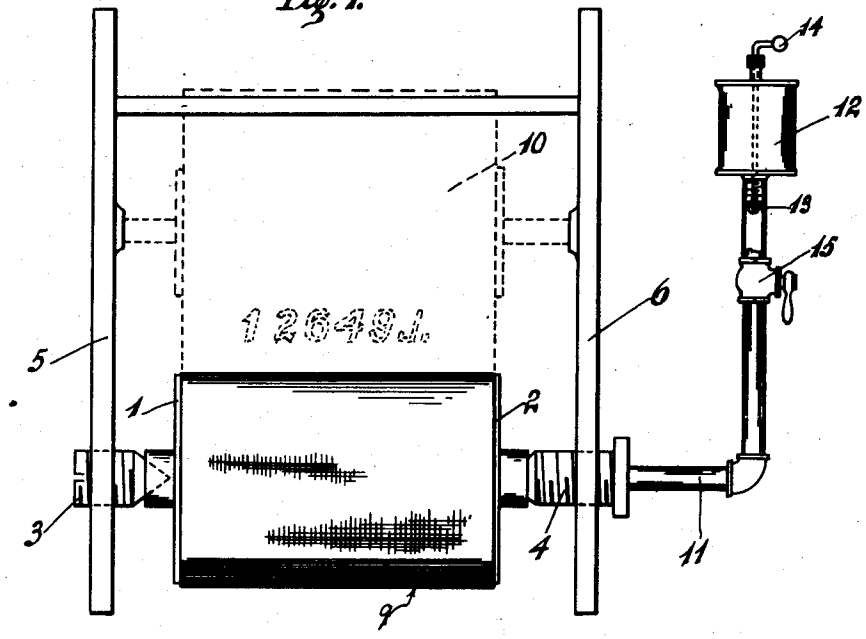
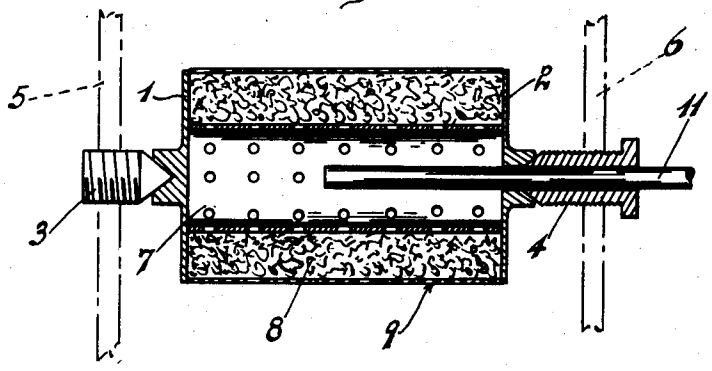


Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES F. PERKINS, OF HAYWARD, CALIFORNIA.

INKING ROLLER.

Application filed August 6, 1924. Serial No. 730,419.

To all whom it may concern:

Be it known that JAMES F. PERKINS, a citizen of the United States, residing at Hayward, in the county of Alameda and State of California, has invented certain new and useful Improvements in Inking Rollers, of which the following is a specification.

My invention is an improved inking roller.

The object of my invention is to provide an inking roller, which may be continuously fed with additional ink, as required, without removing the roller from the machine.

A further object of my invention is to provide an inking roll which is adapted to be rotated by a printing roll or platen and in which the inking roll is mounted on dead centers and has ink fed through one of the dead centers into the interior of the roll from which it depresses through a platen to the inking surface.

In the annexed drawing in which the preferred form of my invention is illustrated:

Figure 1 is a side view of my inking roller.

Figure 2 is a longitudinal sectional view of the same.

Referring more particularly to the drawing, my inking roller comprises a pair of heads 1 and 2, which are journaled upon pin bearings 3 and 4 respectively. These pins are preferably threaded into the frame members 5 and 6, to support the roller, and also provide an adjustment for wear.

A perforated cylinder 7 is mounted between the heads 1 and 2, and may be either secured to said heads, or formed integral therewith. A felt or similar fibrous pad 8 surrounds the cylinder 7, and a cloth strip 9 surrounds the pad 8 against which the printing roll 10 presses.

A tube 11 extends through the pin 4, and head 2, into the cylinder 7, and a suitable container, such as the cup 12, is secured to said tube above the level of the inking roll. Thus the ink placed in the cup is fed by gravity to the perforated cylinder 7, from whence it is evenly distributed through the perforations therein to the pad 8 and thence to the cloth cover 9.

A stopper 13 is provided in the tube 11 at the outlet of the cup 12, which is controlled by a handle 14 extending through said cup. A valve 15 is also provided in the tube 11 to stop the flow of ink therethrough.

It will be noted that the pin bearings 3 and 4 form conical dead centers which engage in the cones on the heads 1 and 2 of the roll, the ink carrying tube 11 passing completely through the bearing pin 4 and the cone on the head 2 does not retard the rotation of the roller. By means of the feed support of the bearing pins 3 and 4 in the free members 5 and 6 a frictional resistance can be made against the cones of the heads 1 and 2 in order to partially retard or free the rotation of the inking roll.

Having described my invention, I claim:

1. An inking roller comprising in combination a pair of heads each having a coned bearing surface, a perforated cylinder between said heads, a fibrous pad surrounding the cylinder, stationary screw threaded bearing pins having conical ends engaging the coned bearing heads, a tube passing through one of the bearing pins and through one of the heads, and means to feed ink through the said tube.

2. An inking roller as claimed in claim 1, having in addition screw threads on the bearing pins, and a frame in which said pins are adjustable to increase or decrease the frictional resistance of the rotation of the roller.

In testimony whereof I affix my signature.

JAMES F. PERKINS.