

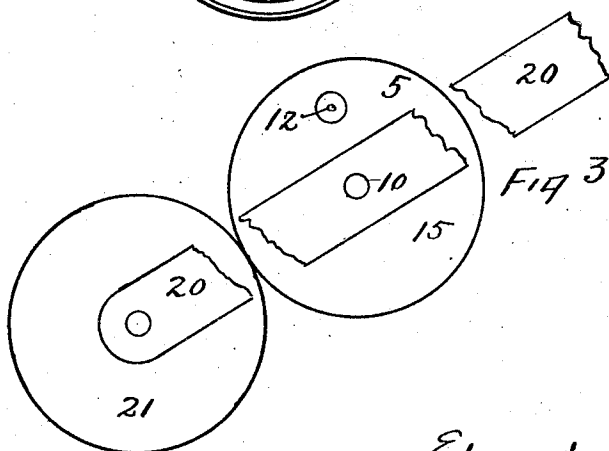
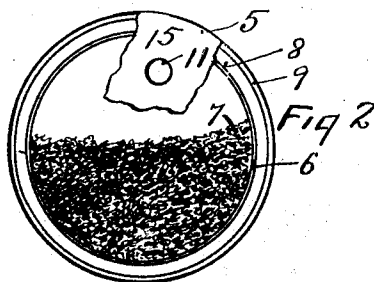
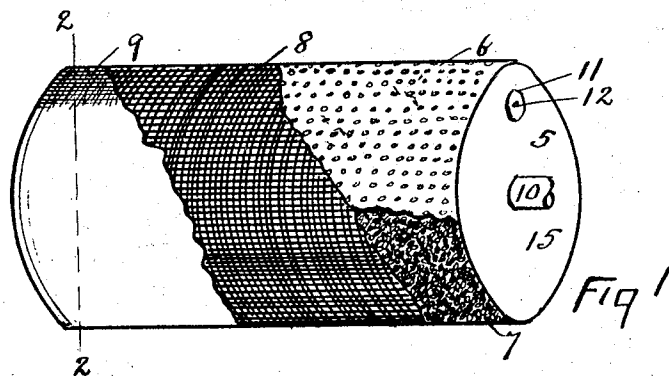
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E. RICK

INK FEEDING DEVICE FOR PRINTING PRESSES

Filed July 8, 1926



Inventor

Edward Rick

By Francis C. Huebner

Attorney

UNITED STATES PATENT OFFICE.

EDWARD RICK, OF FRESNO, CALIFORNIA.

INK-FEEDING DEVICE FOR PRINTING PRESSES.

Application filed July 8, 1926. Serial No. 121,064.

My invention relates to an ink feeding device for printing press, and more specifically to a device for feeding ink so that it will be evenly distributed on the outside periphery of the roller.

It is here noted that the applicant petitioned for United States Letters Patent on December 28th, 1925, for a printing device, which application was given Serial No. 77,974; that therein was partially disclosed certain features connected with an ink feeding device, which is set forth more at length in the following application, and it is desired that this application be considered in connection with the pending application above referred to.

The objects accomplished are cleanliness in handling the ink feeding device, cheapness of construction, and the uniform spreading of the ink, and other objects which will be hereinafter disclosed.

I accomplish these objects by means of the device hereinafter described and illustrated on the accompanying drawing, in which Figure 1 is a view of the inking roller with parts cut away to show its composition and construction. Figure 2 is a trans-sectional view of the device along the sectional line 2—2 in Figure 1. Figure 3 shows the ink distributor attached to a rubber stamp roller device.

In said drawing the inking roller is designated as 5, and consists of a perforated cylinder 6 which is carried on an axle 10. Said perforated cylinder is covered with absorbent material, such as felt, asbestos, wool, cotton or coarse fabric, shown in Figure 1 as 8, and this absorbent material can be covered with a finer fabric 9, such as silk, linen or cotton. The interior of the cylinder is partially filled with an absorbent material 7 such as sponge or sponge material, sawdust, pieces of cloth, or any other material which will hold ink by capillary attraction, and which will discharge it to a certain extent on being jarred. The cylinder should be only partially filled with such holding material so that when the roller rotates, by the force of gravity, the contents of the roller or the carrying material, will be agitated by being rolled around the inside periphery of the cylinder.

It is noted that cylinder 5 has closed ends 15, and that in the closed ends is an opening 11, having a lid 12 thereon. The object of this opening is to insert ink and ink carrying material within the cylinder, and the object of the lid 12 is to keep the contents within the cylinder after being placed there.

In Figure 3, I have shown the ink distributing device journaled on a frame 20 and cooperating with a rubber stamp roller 21. It is understood, however, that this ink distributing device has a broader use than with rubber stamps only, and can be applied with slight modification to any form of printing machine in which the ink is distributed by rollers.

Having described my invention, I claim as new and ask for Letters Patent:

1. In an inking device the combination of a perforated cylinder having a covering of absorbent material on the outside and loose absorbent material on the inside, said cylinder being adapted to rotate on the axle, and the loose absorbent material being of such amount that it does not fill the inside of the cylinder, said absorbent material being adapted to roll within the cylinder as the cylinder is rotated.

2. In a device for distributing ink, the combination of a perforated cylinder having closed ends, and adapted to rotate on an axis, said cylinder being covered on the outside with an absorbent material, the inside of said cylinder being partially filled with loose absorbent material which is adapted to roll within the cylinder as the cylinder is rotated on its axis.

3. A device for distributing ink in a printing machine consisting of a cylinder having a plurality of openings from the inside thereof to the outside, said cylinder having closed ends and adapted to rotate on an axis, loose material such as sawdust saturated with printing ink being placed on the inside of the cylinder and absorbent fabric on the outside thereof, said loose absorbent material on the inside being adapted to roll within the cylinder as said cylinder is rotated.

EDWARD RICK.