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A. P. KOEBE

PLATE PRINTER'S INKING ROLL

Filed March 27, 1923

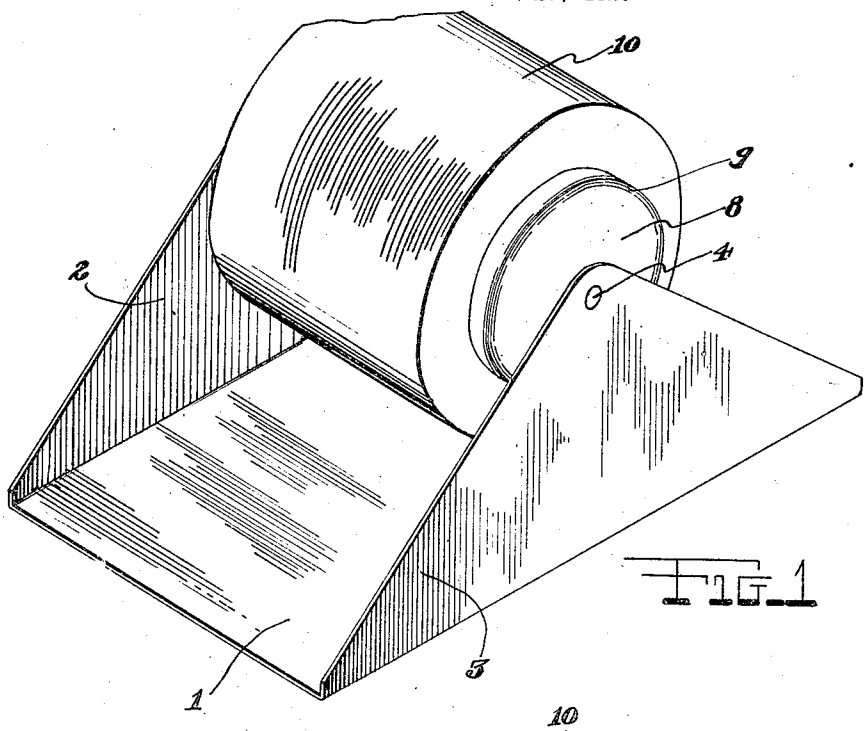


FIG. 1

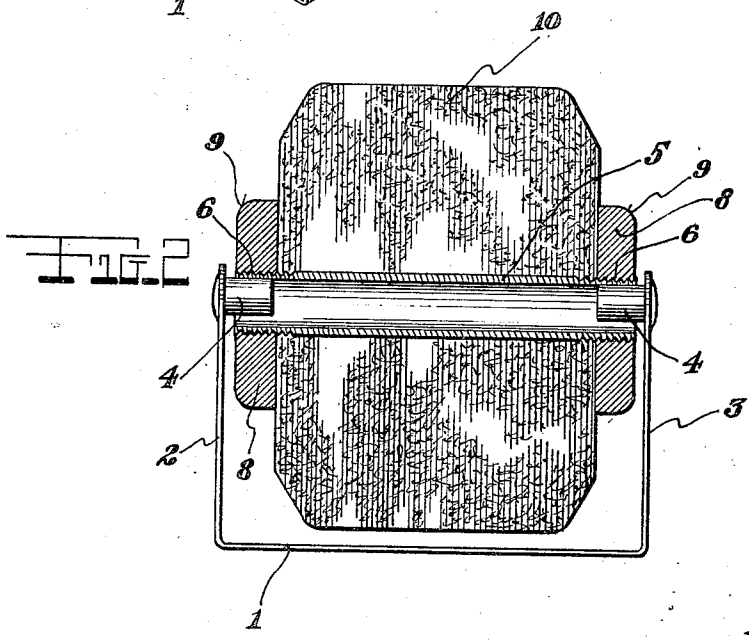


FIG. 2

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UNITED STATES PATENT OFFICE.

ARTHUR P. KOEBE, OF BROOKLYN, NEW YORK.

PLATE-PRINTER'S INKING ROLL.

Application filed March 27, 1923. Serial No. 628,110.

To all whom it may concern:

Be it known that I, ARTHUR P. KOEBE, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Plate-Printers' Inking Rolls, of which the following is a specification.

This invention relates to printers' accessories, and the main object is to provide an improved type of printer's roller, used for inking the common form of flat type plates, which is much more durable than those used at present.

Another object is to provide an inking roller in which the inefficient features of design and operation, such as the loss and damage of various parts thru breakage and wear, are eliminated.

These and other objects will become apparent in the description below, in which characters of reference refer to like-named parts in the drawing.

Referring briefly to the drawing, Figure 1 is a perspective view of my improved plate printers' inking roller.

Figure 2 is a partial sectional elevational view, the section being taken centrally thru the roller elements.

Referring in detail to the drawing, the numeral 1 indicates the flat body of the handle preferably formed of a resilient metal such as steel, and has a pair of resilient ears 2 and 3 which project angularly upward from the long sides of the flat portion 1. Said ears are substantially triangular in shape and have pivot pins 4 projecting toward each other from a point slightly below the vertex of said ears. Said pins are rigidly secured to the walls of the ears by peening or other suitable means.

A roller having a chilled iron spindle 5 is used with the handle member by inserting the hollow ends of said spindle over the pivot pins 4 upon which said spindle loosely rotates. The threaded ends 6 of the spindle engage similar threaded holes in relatively large flange caps 8 which have their outer peripheral edges 9 rounded. A plurality of circularly shaped flannel layers 10 are placed one over the other on the spindle and form a roller, as shown in the drawing. When assembling the roller, one of the caps is first screwed upon the spindle to its desired position. The flannel layers 10 are then slipped over the spindle one after the other. When this is completed, the remaining cap is screwed over the opposite end of the spindle and securely tightened in order to pack the layers into a compact mass. By spreading the ears 2 and 3 apart, the spindle may be slipped into place on the pivots 4.

The roller when used, is inverted and held in the hand by laying the palm of the hand flat upon member 1 and bending the fingers over the far edge thereof, at the same time allowing the thumb and small digit to grasp the opposite long sides. The surface of the roller is first saturated with ink by rolling the same over an ink slab. This is often accompanied by violence which causes the previously used wooden caps to crack or break into fragments. This flaw in construction has been eliminated with my type of device which employs metallic caps 8, preferably formed of aluminum. The roller is then rolled to and fro over plate type discharging a thin layer of ink over the same evenly and without any great effort on the part of the operator. The pivots 4 as arranged in this device, due to their small length, reduce to a minimum the friction caused by rotation, and permit smooth action over the ink slab or type plate. When the inking surface of the roller has become hardened thru extensive use, the same may be readily interchanged by spreading the ears 2 and 3 apart, and inserting another roller in its place.

I claim:—

1. A device of the class described comprising a hollow spindle, a plurality of ink absorbing layers on said spindle, means for securing said layers in place on the spindle, a handle member comprising a flat plate having side ears, and a pivot pin in each ear adapted to rotatably support said roller spindle.

2. A device of the class described comprising a hollow spindle having external threads formed on its ends, a plurality of ink absorbing layers on said spindle, metallic caps engaging the threaded ends of said spindle and adapted to retain said layers in place, a handle comprising a flat plate having ears projecting angularly therefrom, and pivot pins on said ears adapted to rotatably support said roller spindle.

In testimony whereof I affix my signature.

ARTHUR P. KOEBE.