Dec. 12, 1933. C. C. HARRIS 1,938,904

STENCIL INK ROLLER

Filed Oct. 17, 1930

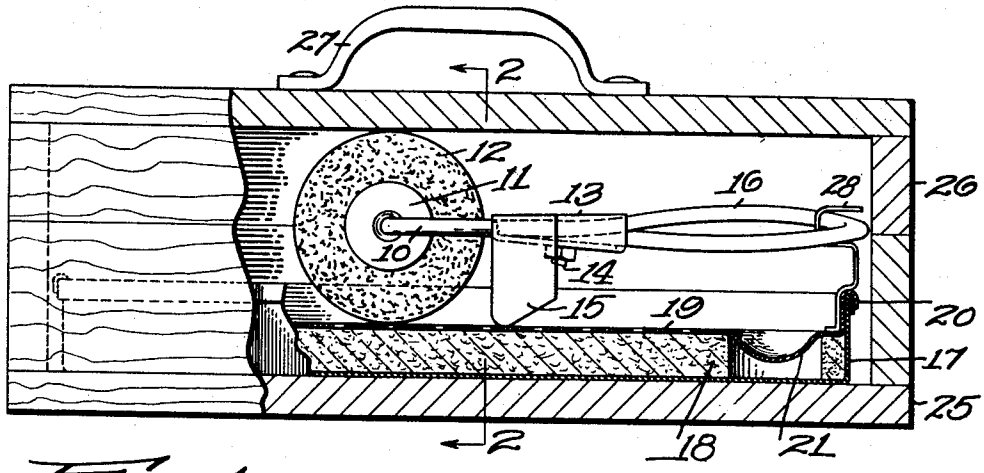


Fig. 1.

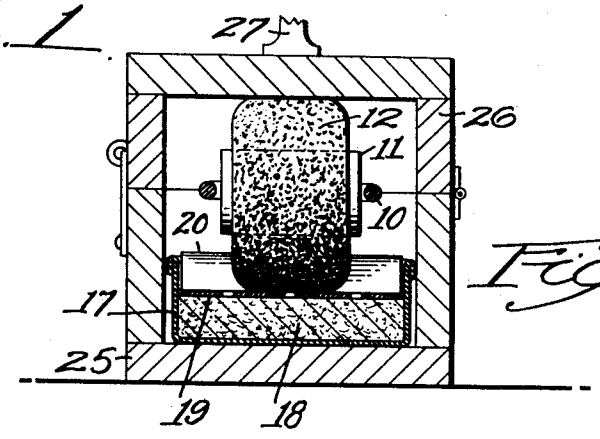


Fig. 2.

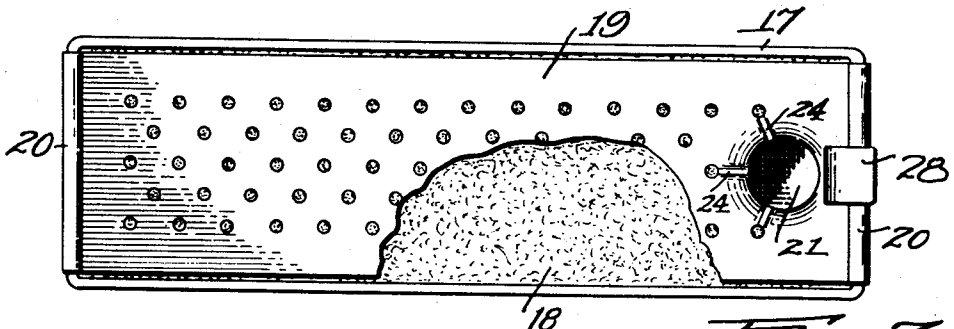


Fig. 3.

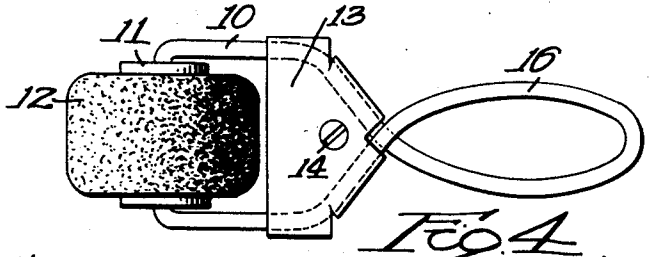


Fig. 4.

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STENCIL INK ROLLER

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1 Claim. (Cl. 91—62.5)

This invention relates to the art of stenciling.

The principal objects of the invention are to provide an inking roller for this purpose of a material which will be so soft and yielding that it will penetrate the cuttings in the stencils accurately and fully at all points, thus producing a clear reproduction of the stencil on paper, wood and even on coarse burlap or other rough material and to provide an ink roller having a simple practicable handle for manipulating it and downwardly extending legs to provide a three point support. In other words the roller is soft and porous so that it can go down through the stencil cuttings and also through perforations in the sheet metal plate carried on the top of an inking pad.

Other objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawing, in which

Fig. 1 is a side view of a box with an inking pad and roller therein constructed in accordance with this invention, the box being shown as cut away at one end and the interior parts shown in section;

Fig. 2 is a transverse sectional view on the line 2—2 of Fig. 1;

Fig. 3 is a plan of the ink pad itself, and

Fig. 4 is a plan of the roller.

The inking of stencils is a matter that has always been done roughly because most stenciling is of a rough character where it is used commercially.

When it is desired to stencil accurately and get sharp outlines and have every print uniform the old devices for stenciling failed largely. In order to secure sharp outlines and a stable durable pad I have provided the following improvements.

The stencil roller is provided in the form of a small implement comprising a wire frame 10 which is bent straight across at one end to furnish a shaft or axle formed of the two ends of the wire. On this axle is located a spool 11 rotatable thereon. On the spool is permanently fixed a torus shaped roller 12 formed entirely of sponge rubber.

The frame of the device is completed by the provision of a sheet metal plate 13 extending over the top of the frame 10 and having a bottom piece under it, the two parts being secured together by a screw 14 or in any desired way. This is provided with two legs 15 extending down at opposite sides at right angles to the frame, so that the device will rest normally on the three points of support formed by the two legs and the end of the handle. Thus when it is laid down outside, the inked roller will not rest on the surface of a desk or table but will be held at a distance off the surface. The wire of the frame 10 is shown here as crossing to provide a loop handle 16.

The ink pad of course comprises a tank or casing 17 provided with a layer of felt 18 or other absorbent material in which the ink is freely and uniformly distributed. The tank 17 of course has sides and ends and on the felt material is placed a sheet metal plate 19. This plate is provided with perforations at frequent intervals throughout its area, and the perforations are of a size sufficient for allowing the sponge rubber roller to squeeze down through them and to contact with the inked felt surface. This perforated plate 19 is located in the tank 17 by having two ears 20 at its opposite ends project up and down over the ends of the tank.

One or more depressions 21 can be employed in the plate 19 and I have shown one at one end. This depression extends down into the felt and is provided with inclined grooves 24 in its walls to allow the ink to enter from the felt which is practically saturated with ink. This depression has a bottom and acts as a dish or holder for a small body of ink and is desired for use when a stencil is to be inked or touched up by a brush. This depression brings the ink up where it can be reached conveniently with such a brush.

I have shown the device as mounted in a box 25 having a cover 26 and handle 27, although that is not essential. When this box is used it carries the whole device in it with the brush in position on the inking pad. The handle of the brush is held by a hook 28.

By this invention a roller is provided which is so extremely soft and porous that it not only carries a large volume of ink, but its surface will squeeze down through the stencil cuttings and make clear sharp impressions either on smooth or rough materials. It also cooperates with the inking pad having the perforated metal top because this roller will squeeze down into the perforations and come into contact with the ink pad and it has to be passed over the plate 19 only a few times before its entire surface is inked. The perforated plate prevents the roller wearing a depression in the pad and in fact prevents practically all wear on the pad itself. This arrangement provides a non-spilling container for the stencil ink. The perforated sheet metal plate on top of the absorbent pad serves to squeeze surplus ink out of the roller to drain back into the

pad when the roller is run over it with light pressure. Furthermore, as this plate is flexible, an abundance of ink is brought up to its surface when the roller is operated over it under hard pressure and the rollers takes it up on account of the material of which the roller is made. The perforations serve to spread ink applied to the plate throughout the pad, especially if the roller is passed over its surface a few times. Surplus ink in the depression 21 can be drained back into the felt by tipping up the device.

Although I have illustrated and described only a single form of the invention I am aware of the fact that modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claim. Therefore I do not wish to be limited to the exact form shown, but what I do claim is:—

As an article of manufacture, a stencil ink roller having a wire handle with its two ends in alignment to constitute an axle, a sheet metal plate bent around the handle to strengthen it provided with two integral downwardly extending legs to provide a three point support, for the purpose described, and a roller rotatable on said axle comprising a central spool and a soft porous body of sponge rubber surrounding the spool.

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