No. 808,439. PATENTED DEC. 26, 1905.

W. H. DEIDRICK.

DECORATING DEVICE.

APPLICATION FILED DEC. 13, 1904.

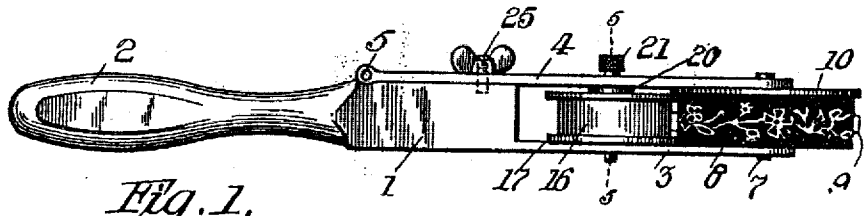


Fig. 1.

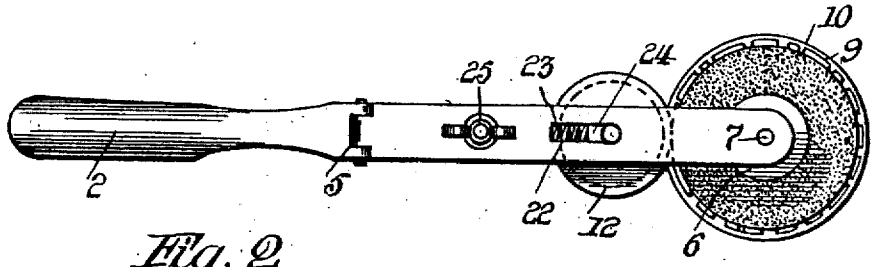


Fig. 2.

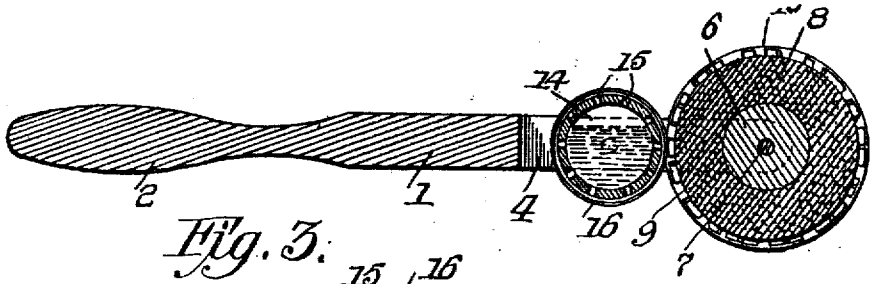
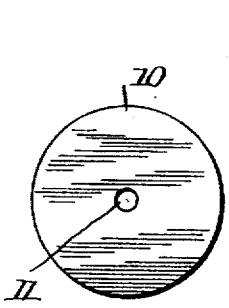


Fig. 3.



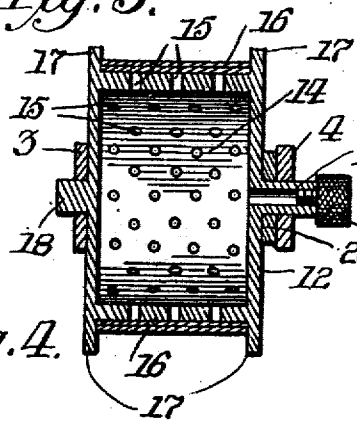


Fig. 4.

Fig. 5.

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UNITED STATES PATENT OFFICE.

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DECORATING DEVICE.

No. 808,439. Specification of Letters Patent. Patented Dec. 26, 1905.

Application filed December 13, 1904. Serial No. 236,740.

To all whom it may concern:

Be it known that I, WILLIAM H. DEIDRICK, a citizen of the United States of America, residing at East Liverpool, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Decorating Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in decorating devices, and has for its primary object to provide a decorating device that may be used upon chinaware when the same is in a green state. It is a well-known fact that when the ware has been formed before it is burned the ware is in a very frail state, and the present device is so constructed that the elasticity of the printing-roller will permit the same to impress the pattern upon the ware without liability of breaking the same.

The present invention is particularly applicable to the decoration of green ware, bisqueware, glazed ware, china, earthenware, glassware, or any frail object of any form whatsoever, means being provided to accurately guide the device as the pattern, such as a border-pattern, is imprinted upon the edges of the ware.

My invention still further contemplates the provision of a device of the above-described character that will be self-inking and possess other advantages in providing means of removing the printing-roller and replacing it with another containing a different pattern.

A still further object of the present invention is to provide a device that will be extremely simple in construction, strong and durable, comparatively inexpensive to manufacture, and one that may be easily and quickly operated.

With the above and many other objects in view the present invention consists in the novel construction, combination, and arrangement of parts, which will be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference will now be had to the accompanying drawings, forming a part of this application, wherein like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a top plan view of my improved decorating device. Fig. 2 is a side elevation thereof. Fig. 3 is a vertical longitudinal sectional view. Fig. 4 is a detail plan view of the guide, and Fig. 5 is a transverse sectional view taken on the line 5 5 of Fig. 1.

In the drawings the body portion 1 of the device carries integral therewith a handle 2. Said body portion carries a stationary bearing 3 and a movable bearing 4, which is hinged at 5 to the body portion near the handle. A roller 6, carrying a shaft 7, is revolubly mounted in the forward end of the bearings 3 and 4, said roller being provided with a soft sponge rubber body 8, which is cylindrical in form this sponge-rubber having an exterior coating of vulcanized rubber 9, carrying the pattern This exterior strip of rubber 9 is suitably secured to the sponge-rubber by means of rubber cement or other adhesive material and may be removed therefrom for the purpose of applying another strip of rubber carrying a different pattern or replacing the same when worn.

Upon the shaft 7 and to the side of the roller 6 is mounted a guide 10, which preferably consists of a flat disk slightly larger than the diameter of the printing-roller, said disk having formed therein a central aperture 11, through which the shaft 7 extends, said disk being designed to engage the edge of the plate, cup, saucer, or piece of ware to perfectly guide the printing-roller and prevent the lateral displacement of the same.

The inking-roller 12 has formed therein an ink-reservoir 14, the walls of said reservoir having formed therein a number of perforations 15 to permit the ink to flow therethrough and uniformly feed the ribbon, felt, or other material 16, surrounding the inking-roller. This roller 12 has formed at its edges outwardly-extending annular flanges 17, which serve to retain the ribbon in place and also embrace the sides of the pattern arranged upon the printing-roller. This inking-roller also carries a shaft 18, the shaft 18 extending through the rigid bearing 3. Upon the opposite side of the inking-roller is arranged a hollow shaft 19, which communicates with the ink-reservoir 14, said hollow shaft extending through the movable bearing 4 and is also provided with a washer 20. The end of the hollow shaft 19 has secured therein a screw plug 21, which may be easily opened and closed for the purpose of feeding ink to the reservoir. The shafts 18 and 19 are slidably secured in slots 22, formed in the bearings 3 and 4, the same being spring-pressed by springs 23 operating against blocks 24. A thumb-

screw 25 is provided for rigidly securing the movable bearing 4 in position, said thumb-screw extending through the movable bearing 4 into the body portion 1 of the device.

The operation of my improved device is as follows: By permitting the printing-roller to lightly touch the material as the same passes over the article the pattern will be impressed thereon, the sponge-rubber forming the body portion of the roller taking up the slightest excess of pressure, thereby preventing the article when in a frail state from becoming broken. If it be desired to remove the printing-roller, the thumb-screw 25 is removed, which will permit the movable bearing after the plug 21 has been removed to be taken from the sides of the roller, and when in this position another roller may be substituted.

The many advantages presented by my improved decorating device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit and scope of the invention.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A decorating device comprising suitable bearings, a sponge-rubber roller having a detachable covering of harder rubber carrying designs or configurations revolubly mounted in said bearings.

2. In a decorating device, the combination of suitable bearings, a printing-roller formed of sponge-rubber and having a removable printing-surface of harder rubber, and means for inking said roller.

3. In a decorating device, the combination of a handle having a bifurcated end, one member of said end being hinged to the handle, means for securing said member in position, an inking-roller and a printing-roller both mounted between and journaled in said members.

4. In a decorating device the combination with a handle, of a printing-roller mounted in said handle, and a hollow inking-roller mounted in the handle, said inking-roller being formed with a plurality of perforations in its rim a hollow shaft communicating with the interior of the roller and a plug fitting in said shaft.

5. In a decorating device, the combination of a stationary and a movable bearing, a handle connected to said bearings, an elastic printing-roller, a disk mounted on a common shaft with said printing-roller, an inking-roller having formed therein an ink-reservoir, a spring-pressed bearing connected to said inking-roller, all parts being arranged substantially as described.

6. In a decorating device, the combination of a rigid bearing and a movable bearing, means to secure said movable bearing in a rigid position, a handle connecting said bearings, said movable bearing being hinged to said handle an elastic printing-wheel journaled in said bearings, and a suitable inking-roller operating against said printing-wheel, and journaled in said bearings, substantially as described.

7. In a decorating device, the combination with suitable bearings, and a shaft mounted in said bearings, of a printing-roller carried by said shaft, said printing-roller being formed of soft rubber and having a removable printing-surface of harder rubber.

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

WILLIAM H. DEIDRICK.

Witnesses:
E. E. POTTER,
K. H. BUTLER.