

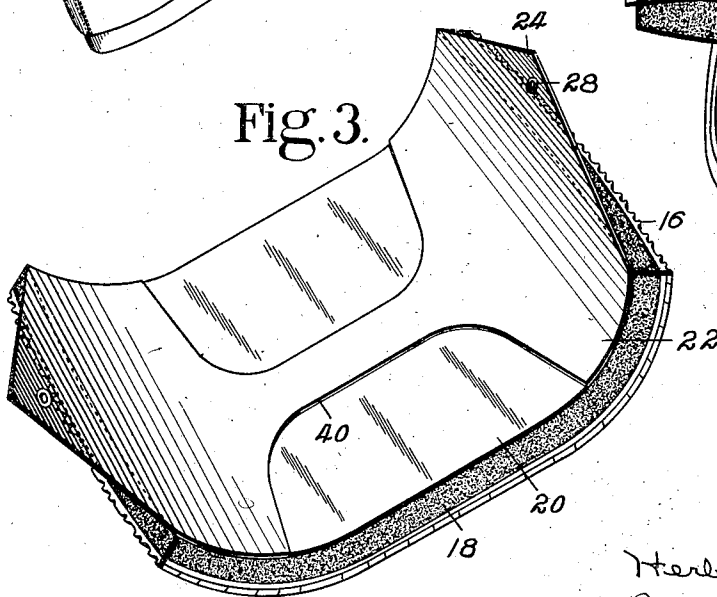
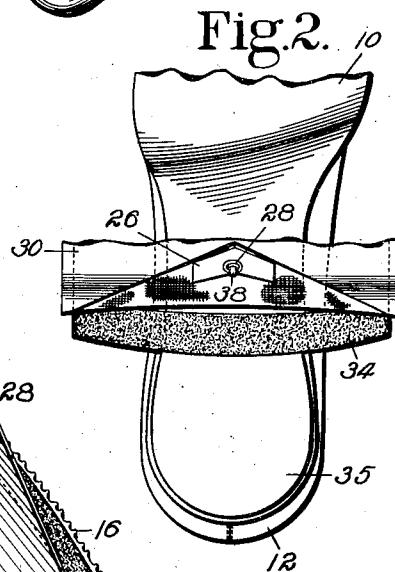
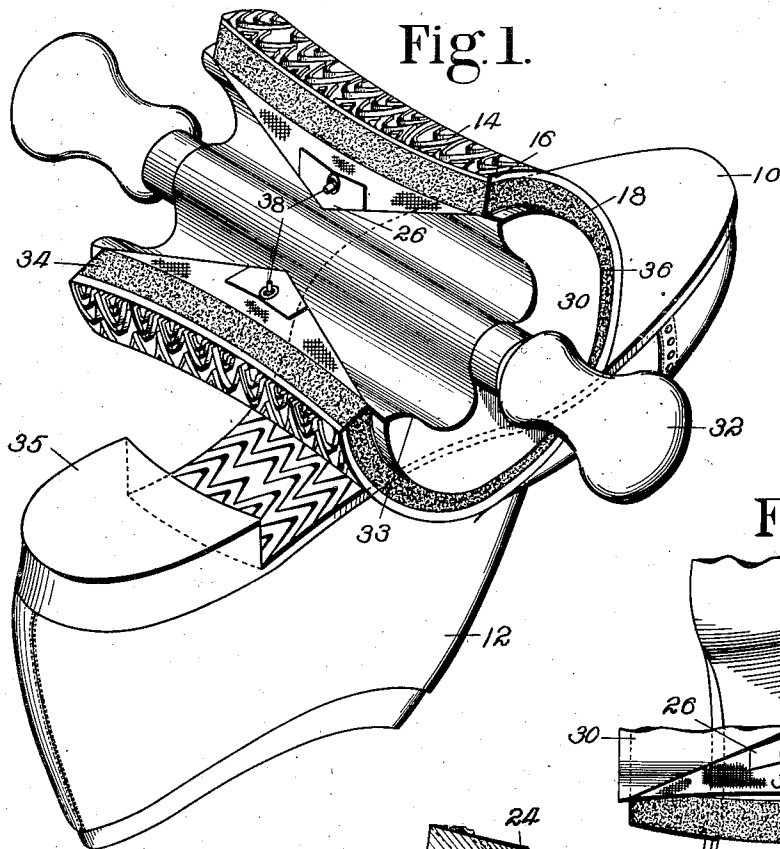
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STAMPING DEVICE

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STAMPING DEVICE

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This invention relates to stamping devices and is herein illustrated as embodied in a device adapted for decorating the soles of shoes.

After a shoe has been substantially completed and is ready to be packed for shipment, the sole may be decorated with a design of any chosen configuration by means of an arcuate-shaped stamping device which is rolled along the bottom of the shoe. Such stamping devices have usually been provided with a shoulder slightly curved transversely so that the stamp may be brought close to the breast of the heel of the shoe and then rolled toward the toe end of the shoe to decorate the whole sole. In order to equalize the pressure transversely of the bottom of the shoe and ensure an even imprint, the carrier of such a stamping device is usually provided with a circumferential depression so that a cross-section taken axially through the stamping device shows a slightly curved depressed surface simulating the transverse curvature of the shank portion of a shoe. Many factories desire to utilize a large number of such stamping devices and to change the design frequently.

Accordingly, the invention in one of its aspects resides in a stamping device in which a resilient stamp illustrated as having a sponge rubber support is detachably secured to a carrier by means of a non-stretchable backing having, as herein illustrated, projecting ends provided with securing means, so that one carrier may be made to serve for a large number of stamps. In the illustrated form of the invention the stamp is provided with a canvas backing having projecting terminals in which there are provided eyelets for co-operation with suitable studs upon the carrier.

When such interchangeable stamping devices are used with carriers having circumferential depressions to enable the stamps more readily to coast with the transversely curved bottoms of shoes, there is difficulty in causing the unstretchable backing member to conform closely to the carrier. In view of the foregoing and in accordance with a feature of the invention, the spacing between the securing means on the illustrated backing member is just sufficient to reach along the depressed portion of the carrier between the securing means thereon, whereby the act of securing the backing member in place serves to pull the resilient stamping member into the depressed portion of the carrier. As herein illustrated the backing member is of canvas, substantially coextensive with the stamping member at the ends thereof, and greatly reduced

in width at the mid-portion thereof, thereby allowing stretching of the lateral edges of the stamp.

These and other features of the invention will be best understood from the following illustration taken in connection with the accompanying drawing in which

Fig. 1 is a perspective view of the bottom of a shoe and our novel stamping device as it is being applied to decorate the shoe;

Fig. 2 is a plan view of the bottom of a shoe together with a fragment of a stamping device showing how it may be brought close to the breast of the heel; and

Fig. 3 is a perspective view of the same device removed from its carrier and illustrating the formation of the backing.

When it is desired to decorate the bottom 10 of a shoe 12 the latter is supported in inverted position and a previously inked stamping device 14 is rolled along the bottom of the shoe to apply thereto the design formed upon the resilient stamp 16 secured to such a device. This stamp 16 is a molded rubber die made as are most rubber stamps in any usual and suitable manner and is provided with any desired design and is mounted upon a resilient support 18 of sponge rubber on the inner surface of which is a continuous film or tegument 20 of rubber. To this tegument 20 there is attached as by means of cement a backing 22. The backing 22 may conveniently be constructed of rubberized canvas which may be attached to the stamp either by the use of cement or by vulcanization or in any other well-known manner. The canvas backing has projecting terminal portions 24 provided with reinforcements 26 in which have been inserted eyelets 28.

To facilitate handling the stamp and the application thereof to the sole of the shoe, we have provided an arcuate carrier 30 curved circumferentially about an axis in line with which are handles 32. This arcuate carrier is cut away to form a recess 33 adjacent to which is positioned an abrupt shoulder 34 upon the stamp which is curved slightly so that it may be brought close to the breast of the heel 35 of the shoe 12. It will be noted that the exact curvature of the arcuate surface 36 of the carrier 30 is not of any great importance so long as said surface is longer than the distance from the breast of the heel to the tip of the toe of the largest shoe which is to be decorated. Preferably, however, the arcuate surface 36 is provided with a central depression so that a section taken axially through the stamp 16 will be curved to correspond substantially with

the transverse curvature of the shoe bottom 10. In this cut-away portion 33 the carrier is provided with studs 38 over which the eyeleted ends of the backing 22 are positioned as the stamp 16 is wrapped around the carrier 30. The backing 22, although substantially coextensive with the stamp 16 at its ends, is reduced in width or cut away until it is no wider than a narrow strap at 40 near its central portion and the distance between respective eyelets 28 is equal to the distance between the studs 38 measured around the arcuate surface of the carrier 30 at the bottom of the depression therein. Thus, in order to secure the stamp and its backing to the carrier, it is necessary to draw the backing taut, fitting closely in the depression. At the same time the fact that the backing is cut away at 40 allows the margins of the stamp to stretch as required by the larger peripheries of the carrier at its ends.

When it is desired to decorate a shoe the selected stamp 16 is applied to a carrier 30 by wrapping it around the same and attaching the eyeleted ends of the backing 32 to the studs 38 of the carrier. The stamping device is then inked, as by rolling it along a suitable inked pad, and applied to the bottom of a shoe. The shoulder 34 of the stamp is brought against the breast of the heel and the operator grasps the handles 32 rolling the stamp forwardly over the sole of the shoe.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent of the United States is:

1. In combination, a non-cylindrical carrier having a concave surface, a resilient stamp, a non-stretchable fabric backing attached to the stamp and being substantially narrower than said stamp, and means for securing said backing detachably to said carrier.

2. In combination, a carrier having a concave surface, a flexible stamp substantially covering said surface, a resilient support for said stamp, a fabric backing attached to only a fractional portion of said resilient support, and means engaging said backing for detachably securing said stamp to said carrier.

3. In combination, a non-cylindrical carrier having an incurved surface, a resilient stamp, and means for securing said resilient stamp to said carrier comprising a non-stretchable fabric backing constructed and arranged to draw the stamp into engagement with said incurved surface and having projecting ends provided with attaching means.

4. In combination, a carrier having a concave surface, a resilient stamp, a non-stretchable canvas backing attached to the stamp and having a substantially smaller area than said stamp, and means for securing said backing detachably to said carrier comprising studs and eyelets adapted to be positioned on said studs.

5. In combination, a carrier, a rubber stamp adapted to be supported by said carrier, a sponge-rubber support for said stamp, and a canvas backing secured to said sponge-rubber support adapted to be attached to said carrier.

6. In combination, a carrier having projecting studs, a rubber stamp adapted to be supported by said carrier, a sponge-rubber support for said stamp, and a canvas backing secured to said sponge-rubber support adapted to be attached to

said carrier, said canvas backing having eyelets for engagement with the projecting studs upon the carrier.

7. In combination, a rigid carrier having a curved face one portion of which is depressed, a flexible stamp adapted to be wrapped around said curved carrier and secured thereto, and a non-stretchable backing attached to the stamp for drawing the stamping member into the depression of the carrier.

8. In combination, a carrier having a depression, a resilient stamp, and means for drawing said stamp into said depression and securing it to the carrier comprising securing means upon the carrier and a non-stretchable backing attached to said stamp and provided with securing means for co-operation with the securing means on the carrier, the spacing of said co-operative securing means permitting attachment of the stamp to the carrier only when the stamp has been drawn into the depression.

9. In combination, a carrier having a curved supporting surface a mid-portion of which is depressed beneath the end portions, securing means upon said carrier adjacent to said depression, a resilient stamp, and a non-stretchable backing attached to said stamp and provided with spaced securing means for co-operation with the securing means on the carrier, the spacing of the securing means on said backing being substantially equal to the distance between the securing means upon the carrier measured along the bottom of the depression whereby said backing draws the stamp into the depression.

10. In combination, a carrier having spaced attaching members, the supporting surface of said carrier being arcuate and provided with a depression extending circumferentially thereof, a resilient stamp adapted to be curved around said carrier, and a non-stretchable backing secured to said stamp and provided with terminal attaching devices constructed and arranged to co-operate with the attaching means on the carrier, said backing having a less width along a portion of its length so that the mid-portion of the stamp may be drawn snugly into the depressed portion of the carrier.

11. In combination, a carrier having an arcuate supporting surface the central portion of which is depressed, a resilient stamp adapted to be secured to said carrier, a non-stretchable backing secured to said stamp, and means for securing the backing to the carrier, said backing having wide terminal portions and a narrow intermediate portion whereby the resilient stamping member may be drawn into the depression of the carrier as the backing is attached to the securing means.

12. In combination, a stamp having a resilient surface, a sponge-rubber backing for said stamp the exposed surface of which is covered with a tegument of rubber, and a non-stretchable backing secured to said stamp by attachment to said tegument.

13. In combination, a carrier, a resilient stamp, a flexible non-stretchable backing therefor having its terminal substantially as wide as the stamp and its mid-portion of less width, and means for securing the backing to the carrier.

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