April 23, 1929. W. M. SCHOLL 1,710,077

STOCKING PROTECTOR FOR SHOES

Filed Nov. 16, 1925

FIG. 1

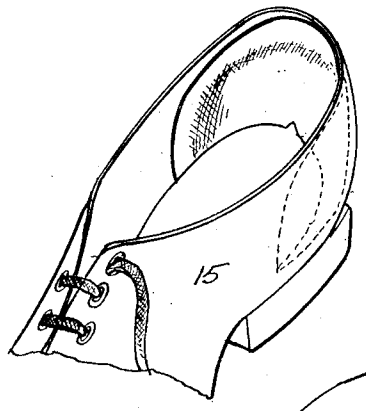


FIG. 2

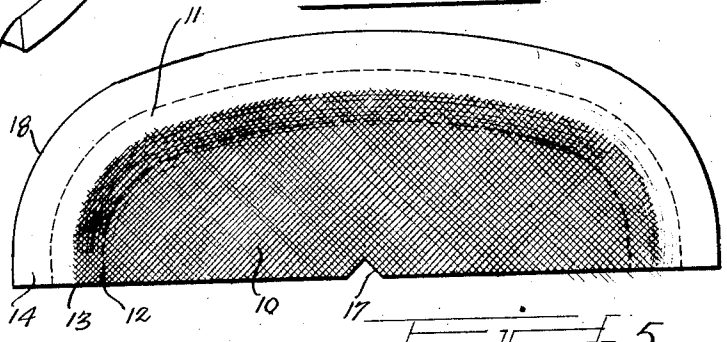


FIG. 3

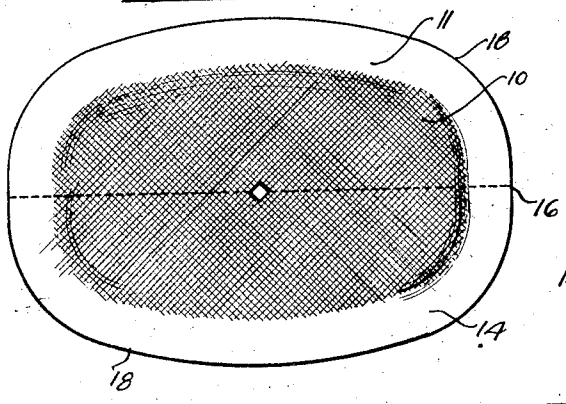


FIG. 5

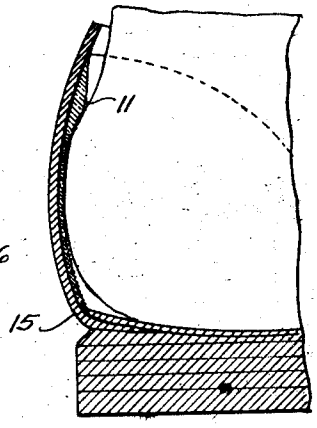
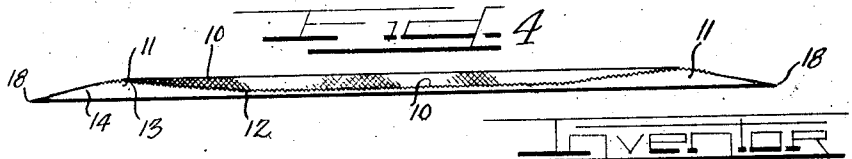


FIG. 4



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UNITED STATES PATENT OFFICE.

WILLIAM M. SCHOLL, OF CHICAGO, ILLINOIS.

STOCKING PROTECTOR FOR SHOES.

Application filed November 16, 1925. Serial No. 69,256.

This invention relates to stocking protectors for shoes.

One of the objects of the invention is the provision of means to prevent material, relative movement of the stocking, covering a human foot, and the surrounding shoe, and especially the heel portion thereof to substantially eliminate wear induced by movement between the shoe and stocking.

Another object is to prevent the heel of the wearer of a shoe from "lifting" with respect to the shoe while walking.

Another object is to provide a device of this character which will not materially diminish the useful longitudinal dimensions of the interior of the shoe.

A further object is to provide a lining about the counter of a shoe which presents a surface, in contact with the heel of a stocking, which has an unusually high friction coefficient and which also presents a physical obstruction in the path of the heel of the foot to prevent it from moving vertically relative to the shoe.

Other objects, advantages and benefits of the invention will become apparent to persons skilled in the art from a consideration of the following description and the drawings forming a part hereof, wherein:—

Figure 1 shows a perspective view of the interior rear part of a shoe;

Fig. 2 is a plan view of the stocking protector near full size;

Fig. 3 shows a reduced plan view of two devices made of a single piece and subsequently divided along its longitudinal axis;

Fig. 4 is a side elevation showing the straight side of the device; and

Fig. 5 is a longitudinal section through the heel part of a shoe showing the protector in place in the shoe.

In all the views the same reference characters indicate similar parts.

As shown on the drawings:

The device about to be described performs two important functions, to wit:—it presents a thickened rim or rib portion which extends above and about the heel bone or oscalcis of the foot. This prevents the foot from lifting out of the shoe, boot or slipper when walking and it also serves as means to prevent lateral shifting of the heel of the foot in the shoe. The surrounded, or inner and much thinner zone is roughened, or checkered, to increase its frictional engagement with the stocking or sock within the shoe, boot or slipper, also prevents relative movement thereof and consequent attendant wear.

The device is made of a sheet of rubber, or other suitable substance having substantially the same quality thereof, and consists of a very thin central zone 10 shown as checkered or roughened and which is intended for contact with the stocking or sock. Surrounding this central zone, a tapered rib or rim 11 is substantially parallel with the curved outer edge of the sheet and extends thereabout. The tapered rib or rim 11 begins at the dotted line 12 and extends to the marginal edge of the sheet; its highest point or apex is at 13 where the smooth margin 14 meets the roughened portion 10. The smooth tapered part 14 facilitates, or at least does not materially interpose any resistance to inserting the foot into the shoe and the lower roughened portion, below line 13 interposes considerable resistance to movement of the heel vertically with respect to the shoe. After the shoe is on the foot, the rib 11 obstructs the movement of the heel by virtue of the fact that it is physically in the path of the heel in its upward movement and the roughened part interposes frictional resistance by its contact with the sock. The entire checkered or roughened zone 10 contacts the sock or stocking and prevents free relative movement thereof.

The device is to be cemented in the interior of the heel of a shoe 15 as shown in Figure 1.

The location of the rib 11 with respect to the heel of the wearer of the shoe is plainly shown in Figure 5. This rib also extends laterally and downwardly as shown in Figure 1, thereby preventing the heel from shifting laterally and more securely holding it against vertical movement, with respect to the shoe.

The device is initially made, as shown in Figure 3, of oval form in plan. It is then divided on the longitudinal line 16, thus making two protectors.

The notch 17 serves as a guide for properly locating the protector in the shoe.

The curved edge 18 is reduced in thickness to an extreme degree so that when cemented to the inner surface of the shoe, there is practically no ridge left at 18 to cause the protector to scurf up or become roughened at its edges by use.

To remove the shoe it is only necessary to loosen the lacing and then move the foot slightly forward, whereupon the shoe may be removed as easily as if the protector was not present.

I am aware that many changes may be made and numerous details of construction may be varied through a wide range without departing from the principles of this invention and I therefore do not purpose limiting the patent granted thereon, otherwise than necessitated by the prior art.

What I claim is:

A stocking protector and heel retainer for lining the heel of a shoe, comprising a sheet of rubber approximately semi-elliptical in shape, the sheet being tapered upwardly from the center of the straight edge thereof to form a thickened rib having its apex parallel to and spaced from the curved edge of the sheet, and then gently tapered downwardly to form a feather edge.

In testimony whereof I have hereunto subscribed my name.

DR. WILLIAM M. SCHOLL.