

Jan. 21, 1941.

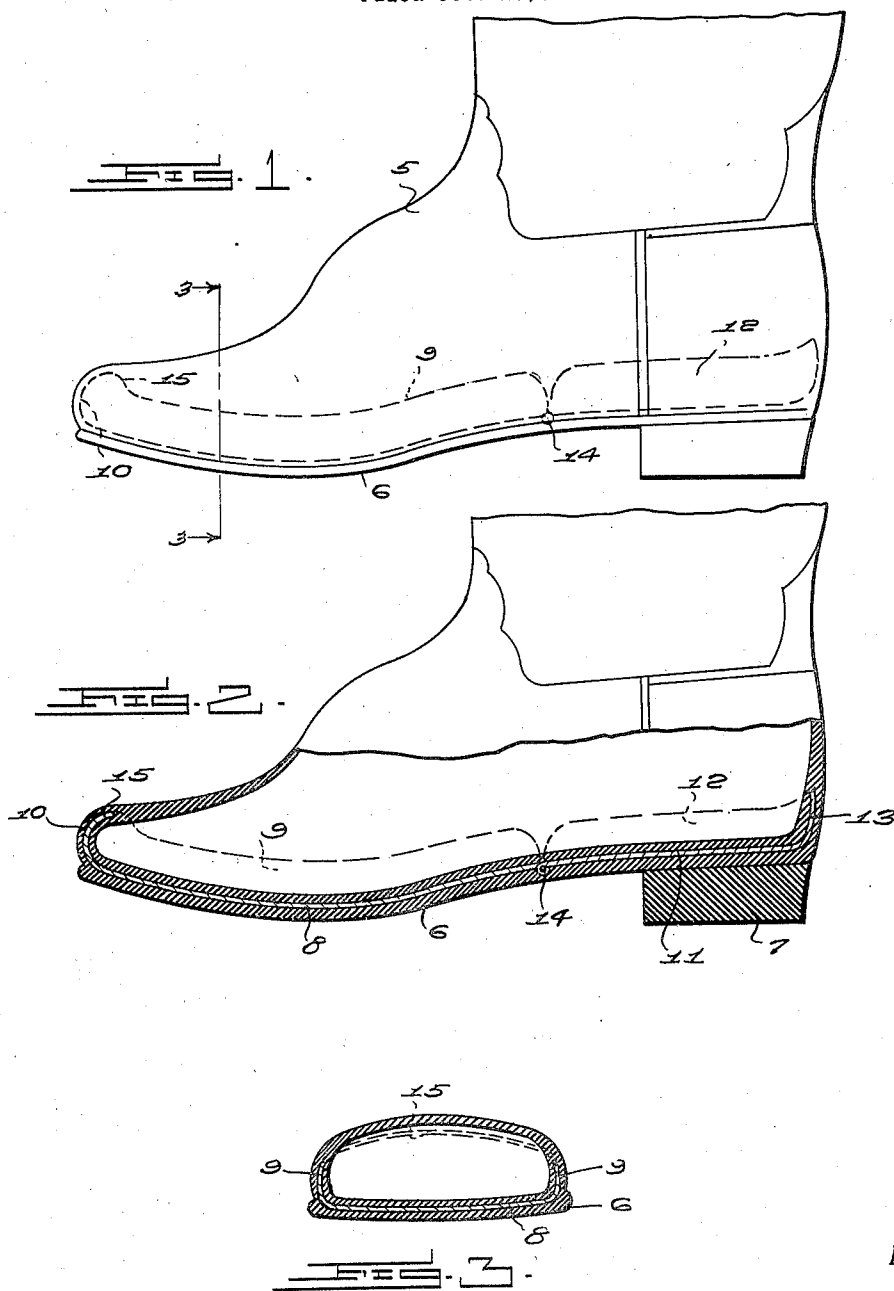
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2,229,387

SOLE PROTECTOR FOR RUBBER BOOTS

Filed Oct. 20, 1939

2 Sheets-Sheet 1



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FIG. 4.

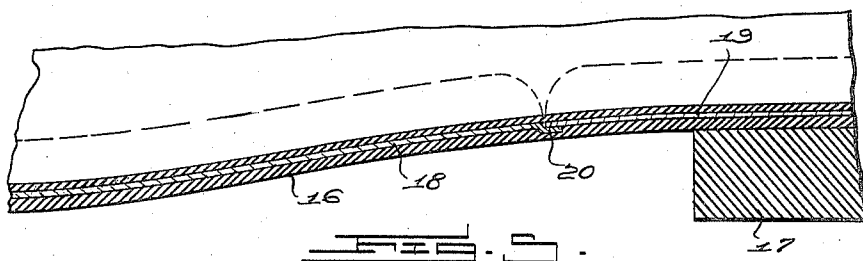
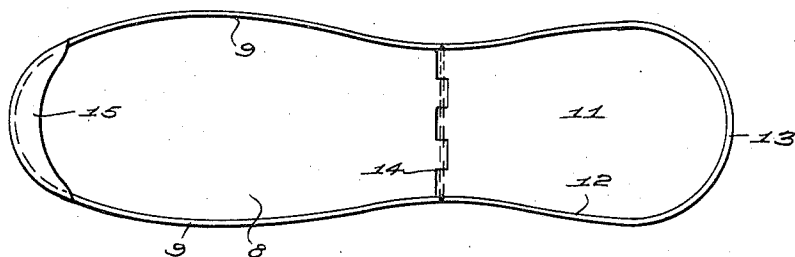


FIG. 5.

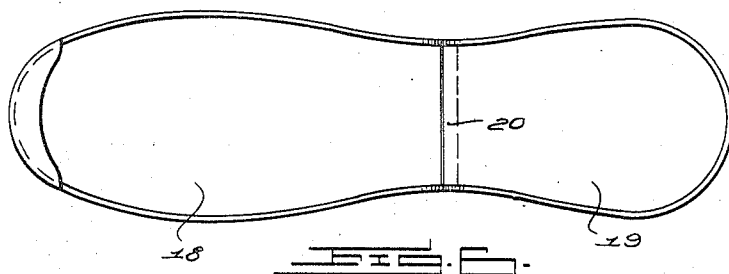


FIG. 6.

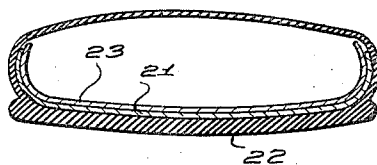


FIG. 7.

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SOLE PROTECTOR FOR RUBBER BOOTS

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Application October 20, 1939, Serial No. 300,458

1 Claim. (Cl. 36-4)

The present invention relates to rubber boots and similar rubber foot wear and has for its primary object to provide a metallic protective plate embodied in the sole of the article to protect the wearer from injury by nails, glass and other sharp objects which might penetrate the normal sole.

An important object of the invention is to provide a protective sole of this character which permits the normal flexing of the foot while walking.

A further object is to provide a device of this character also adapted for protecting the sides of the foot as well as the toes.

A still further object is to provide a device of this character of simple and practical construction, which is efficient and reliable in use, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout and in which—

Figure 1 is a side elevational view of a rubber boot embodying the present invention.

Figure 2 is a longitudinal sectional view thereof.

Figure 3 is a transverse sectional view taken substantially on a line 3-3 of Fig. 1.

Figure 4 is a top plan view of the protector shown in Figs. 1 to 3 inclusive when removed from the boot.

Figure 5 is a fragmentary longitudinal sectional view through the sole of a boot embodying a modified form of protecting plate.

Figure 6 is a top plan view of the plate of the form shown in Fig. 5 and removed therefrom, and

Figure 7 is a transverse sectional view illustrating the manner of positioning the protecting plate in the boot as a lining.

Referring now to the drawings in detail, and with particular reference to Figs. 1 to 4 inclusive the numeral 5 designates a rubber boot including the sole 6 and heel 7. Embedded in the sole and extending into the heel portion thereof is a metallic plate 8 having upwardly bent side edges 9 and a front edge 10 which are embedded in and extend upwardly into the sides and front respectively of the shoe.

The sole plate 8 terminates in the region of the shank of the shoe and embedded in the heel portion of the boot is a similar protecting plate 11

likewise having upwardly bent side edges 12 and a rear edge 13 embedded in the sides and counter of the shoe respectively. The adjacent edges of the plates 8 and 11 are hingedly connected as shown at 14 to permit the free flexing of the foot of the wearer.

Also at the front of the sole section 8 is an overlying tip 15 to reenforce the toe portion of the boot and to protect the toes of the wearer.

In the form of the invention illustrated in Figs. 5 and 6 of the drawings the sole of the boot is designated at 16 and the heel 17, while the protective plate for the sole is shown at 18 and the protective plate for the heel is shown at 19. The rear edge of the plate 16 is offset downwardly as shown at 20 for underlying the front edge of the heel plate 19, the adjacent edges of the plate being free from each other so as to permit the necessary flexing movement of the sole of the boot. The plates 16 and 19 are embedded in the sole and heel portions of the boot as clearly illustrated in Fig. 5.

In Fig. 7 of the drawings the protective plate is shown positioned in the boot as an inner lining therefor, the protective plate being designated at 21 resting on the sole 22, the metal plate being provided with a relatively soft inner sole or lining 23.

From the foregoing it will be apparent that the plate provides a protection for the foot of the wearer so as to prevent the penetration of nails, glass and other sharp objects through the sole of the boot.

It is believed the details of construction, advantages and manner of use of the invention will be readily understood from the foregoing without further detailed explanation.

What is claimed is:

In a rubber boot a pair of sole and heel plates, respectively, embedded in the sole of the shoe and having ends engaging midway of the shank of the shoe for hinging movement, the sole plate having an upturned edge flange extending around the same from end to end thereof and inserted in the sides of the shoe and the toe thereof, and the heel plate having a similar flange inserted in the sides and counter of the shoe, the flange of the sole plate at the front end thereof being rolled inwardly to overlap the toes of the wearer, and said flanges having rounded ends at opposite ends of the axis of hinging movement to prevent interference of said flanges during hinging movement of said plates.