Aug. 13, 1935. R. O. BURCHFIELD 2,011,143

TOE GUARD FOR SHOES

Filed Dec. 1, 1933

Fig 1

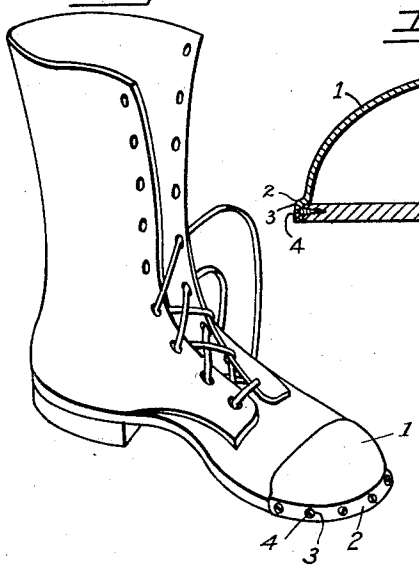


Fig 2

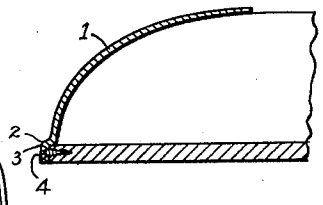


Fig 3

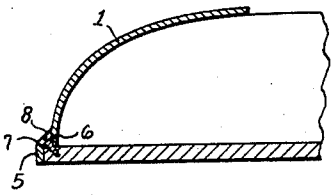


Fig 4

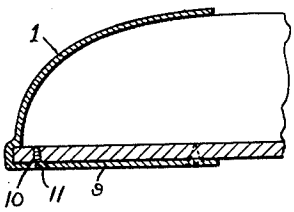


Fig 5

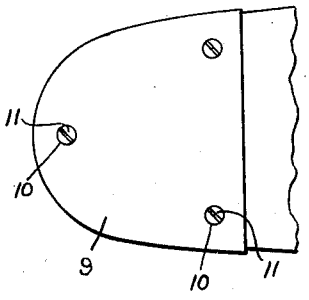


Fig 6

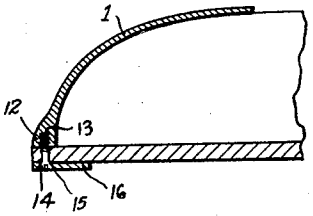


Fig 7

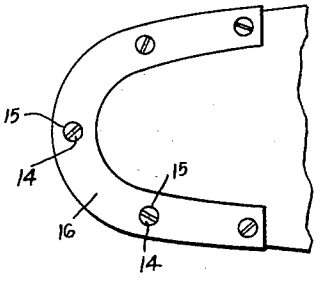


Fig 8

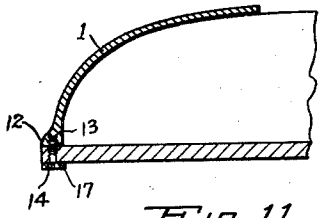


Fig 9

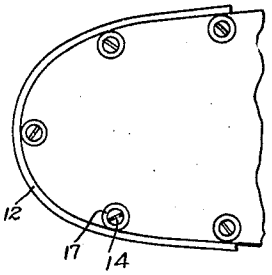


Fig 10

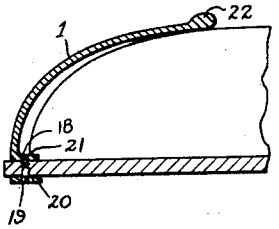


Fig 11

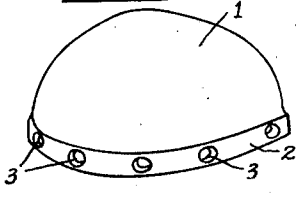
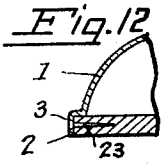


Fig 12



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Patented Aug. 13, 1935 2,011,143

UNITED STATES PATENT OFFICE

2,011,143

TOE GUARD FOR SHOES

Raymond O. Burchfield, Los Angeles, Calif.

Application December 1, 1933, Serial No. 700,474

2 Claims. (Cl. 36—72)

This invention relates to toe guards for shoes, and the general object of the invention is to provide a guard over the toe portion of a shoe, to protect the toes of the wearer of the shoe against injury from heavy objects which frequently fall upon the toe portion of the shoe, and to protect the toes when the toe portion of the shoe strikes against a resisting object.

A more particular object is to provide a toe guard of the character stated which is constructed of material of great strength and light weight, such as aluminum, composition or the like.

Another object is to provide novel means for securing a toe guard to the toe portion of a shoe.

Other objects and advantages will appear hereinafter.

The invention is illustrated in the annexed drawing which forms a part of this specification and in which,

Fig. 1 is a perspective of a shoe with my toe guard secured over the toe portion thereof.

Fig. 2 is a longitudinal vertical section of the toe portion of a shoe and my guard secured thereto.

Fig. 3 is a view like Fig. 2 showing a modified form of my invention.

Fig. 4 is a view like Fig. 2 showing another modified form of my invention.

Fig. 5 is a bottom plan view of Fig. 4.

Fig. 6 is a view like Fig. 2 showing another modified form of my invention.

Fig. 7 is a bottom plan view of Fig. 6.

Fig. 8 is a view like Fig. 2 showing another modified form of my invention.

Fig. 9 is a bottom plan view of Fig. 8.

Fig. 10 is a view like Fig. 2 showing another modified form of my invention.

Fig. 11 is a perspective of my toe guard illustrated in Figs. 1 and 2.

Fig. 12 is a view like Fig. 2 of another modification of my invention.

Referring more particularly to the drawing, in which corresponding parts are designated by the same reference characters in all the figures, my invention comprises a shell 1, shaped to fit over the toe portion of a shoe, the lower marginal portion of said shell being offset at 2 slightly outwardly to fit over the edge of the shoe sole. The shell 1 is constructed of material of great strength and light weight, such as aluminum, composition or the like, to withstand great weight or pressure or resistance without adding appreciable weight to the shoe. The lower marginal portion 2 of the shell 1 is provided with a plurality of holes 3 to receive screws 4 which screw into the edge of the shoe sole, whereby the guard is detachably secured in position on the shoe over the toe portion thereof.

In the form of my invention shown in Fig. 3 the lower marginal portion 5 of the shell 1 is offset outwardly sufficiently to provide a broad shoulder portion 6 which rests upon the upper side of the shoe sole and is provided with holes 7 extending downwardly therethrough from the outside to receive screws 8 which screw downwardly into the sole.

In the form of my invention shown in Figs. 4 and 5 the shell 1 is formed with a lower wall 9 which extends under the toe portion of the sole of the shoe and is provided with holes 10 through which screws are driven into the under side of the sole for securing the guard on the shoe.

In the form of my invention shown in Figs. 6 and 7 the lower edge of the shell rests upon the upper edge of the toe portion of the sole of the shoe and the lower edge portion 12 of the shell 1 is thickened and provided with screw-threaded openings 13 extending upwardly therein to receive the upper ends of screws 14, which are extended upwardly through openings 15 in a curved plate 16 on the under side of the sole and through the sole into said screw-threaded openings 13, whereby the guard is detachably secured on the shoe over the toe portion thereof, the curvature of the plate 16 conforming to the curvature of the edge of the toe portion of the shoe.

The construction of the form of my invention shown in Figs. 8 and 9 is the same as that shown in Figs. 6 and 7, except that washers 17 are substituted for the curved plate 16 and through said washers, which are located on the under side of the shoe sole, the screws 14 respectively extend upwardly through the sole and screw into the threaded openings 13 in the lower thickened edge portion 12 of the shell 1, for detachably securing the guard on the shoe.

In the form of my invention shown in Fig. 10 the lower edge of the shell is formed with an inturned flange 18, which rests upon the upper side of the sole, and screws 19 extend upwardly through washers 20 on the under side of the shoe sole and through the sole, and engage threaded openings 21 in said inturned flange for detachably securing the guard on the shoe. The rear edge of the shell 1 may be reinforced by forming a bead 22 thereon for strengthening the rear portion of the guard.

My guard is strong enough to withstand the weight of heavy objects, such as pipe and tools used in the oil fields, which might fall upon it

and will withstand the reaction of resisting objects against which the guard may strike, whereby the toes of the wearer of the shoe on which my guard is secured are protected against injury.

My guard may be applied to children's shoes as well as to the shoes of adults.

I do not limit my invention to the exact construction and arrangement herein disclosed because various changes may be made therein without departing from the spirit of my invention.

The modification of my invention shown in Fig. 12 is like that shown in Figs. 1 and 2 except that nails **23** are substituted for the screws **4**.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. A toe guard for shoes comprising a shell shaped to fit over the toe portion of the shoe with its lower edge resting upon the upper side of the shoe sole, a curved plate resting against the under side of the sole under the lower edge of said shell, and means extending through said plate and the sole and screwing into said lower edge of said shell for securing the guard on the shoe.

2. A toe guard for shoes comprising a shell shaped to fit over the toe portion of the shoe with its lower edge resting upon the upper side of the shoe sole, washers on the under side of the sole, and screws extending through said washers and the sole and screwing into threaded openings in said lower edge of said shell for securing the guard in position on the shoe.

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