May 27, 1930. J. F. WAIDELICH, JR 1,760,676

TOE PLATE

Filed May 13, 1929

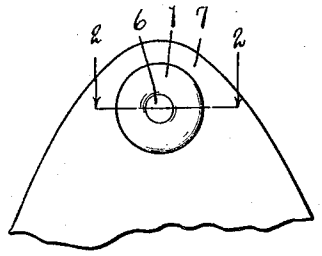


Fig. 1

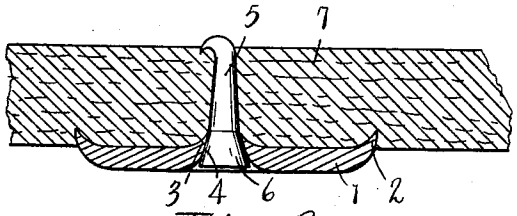


Fig. 2

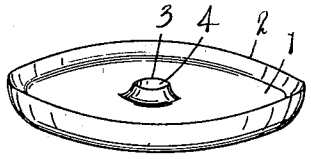


Fig. 3

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UNITED STATES PATENT OFFICE

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TOE PLATE

Application filed May 13, 1929. Serial No. 362,557.

This invention relates to improvements in toe plates for shoes.

The object of the invention is to provide a very simple toe plate which is very readily applied and which will be securely retained until the metal is practically consumed.

The details of the objects will definitely appear from the description to follow. The invention is defined in the claim.

A structure embodying my invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is an inverted plan view of a pointed toe shoe sole with one of my toe plates in place.

Fig. 2 is an enlarged detail transverse sectional view on line 2—2 of Fig. 1.

Fig. 3 is an enlarged perspective view of the top side of the toe plate before it is attached to the sole.

The parts of the drawing will be identified by their numerals of reference which are the same in all the views.

1 is the body of the disk-shaped toe plate having an upturned sharp peripheral flange 2 for penetrating the leather of the sole. 3 is an upwardly projecting central flange surrounding the central aperture 4 in the plate.

5 is a shoe nail with tapered head 6.

The plate is attached by locating the same near the edge of the sole 7 at the toe and, if the toe be a narrow one, preferably at the center as illustrated. If the toe be a broad one a series of them may be put in place. The nail is driven through the wall and clinched.

The head 6 of the nail is forced into the depression in the central aperture so that the round surface of the plate projects below the nail and affords a round smooth contacting surface, the edges of which are compacted and compressed by the process of stamping by which the flanges 2 and 3 are formed.

When thus applied it will be noted that the round surface of the metal contacts and receives the wear. Such round surface will be presented until it is worn away and the plate will be retained by its peripheral engaging edge and its central depression until it is substantially worn away. The end of the head comes into wear only after a considerable surface has been worn down.

Therefore, so long as the toe plate is in place it presents a smooth rounded surface of metal, and this is retained until it is worn out.

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

The combination of a toe plate formed from a substantially circular stamping of thin metal provided with an upturned peripheral marginal flange producing a curved connecting surface with the floor engaging surface of the protector and a flaring edge for insertion within the material to which the protector is to be applied, said protector having a centrally depressed hole with an upturned flange around the same adapted to be depressed into the material to which the protector is applied, and a nail having a tapered head filling said central hole and disposed below the floor engaging surface of the protector, and fastening the protector to the material to which the protector is applied.

In witness whereof I have hereunto set my hand.

JOHN F. WAIDELICH, JR.