Nov. 17, 1931. A. RAPOSY 1,832,736

SHOE PROTECTOR

Filed Oct. 17, 1930

Fig. 1.

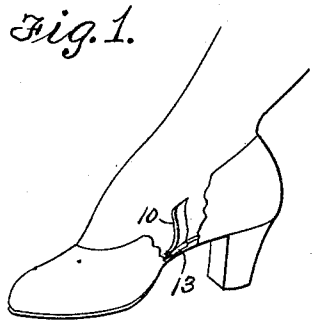


Fig. 2.

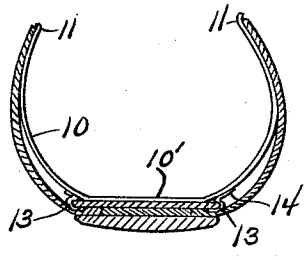


Fig. 3.

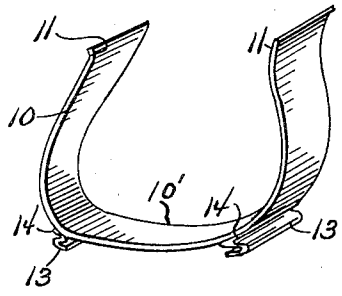


Fig. 4.

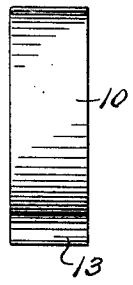


Fig. 5.

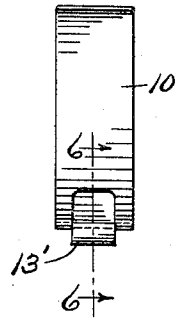
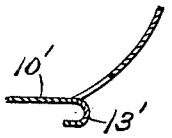


Fig. 6.



Anna Raposy
INVENTOR

BY Victor J. Evans
ATTORNEY

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UNITED STATES PATENT OFFICE

ANNA RAPOSY, OF BRIDGEPORT, CONNECTICUT

SHOE PROTECTOR

Application filed October 17, 1930. Serial No. 489,404.

This invention relates to supports of a type designed for application upon shoes and the like to prevent slipping of the latter while in use.

Another of the objects of the invention consists of gripping means for the support whereby the latter may be connected with both the shoe and foot.

More specifically stated the support is of yieldable nature to permit both comfort to the foot and facilitate ease in the removing and replacing of the support with relation to the shoe.

With the above and other objects in view, the invention further consists of the following novel features and details of construction, to be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:

Figure 1 is a perspective view of a foot and shoe, the latter broken away to illustrate the relative arrangement of the invention.

Figure 2 is a horizontal sectional view taken through a shoe showing the invention applied.

Figure 3 is a perspective view of the invention per se.

Figure 4 is a side elevation of the present invention.

Figure 5 is a view similar to Figure 4 of the modified form of the invention.

Figure 6 is a detail sectional view taken on line 6—6 of Figure 5.

Referring to the drawings in detail wherein like characters of reference denote corresponding parts, the reference character 10 indicates generally the body of my form of support, preferably constructed of spring steel and of nearly U-shape to conveniently accommodate the bottom and sides of the human foot adjacent the arch. The support being of U-shaped configuration provides the same with a straight connecting portion 10′ and spaced yieldable upstanding clamping members 11. The clamping members 11 are bent to present the same with upwardly curved converging portions to conform with the configuration of the foot of the wearer and further tends to adapt the same for yieldable contact with the foot.

The gripping means, alluded to in the foregoing, comprise members 13 of channel formation arranged in spaced relation upon the outer and under sides of the support and oppositely disposed to accommodate appropriate portions of the shoe insole, substantially as illustrated in Figure 2 of the drawings the members 13 are formed on the outer face of the straight connection portion 10′ at the point of juncture of the clamping members 11 therewith. Attaching flanges 14, carried by each of the members 13, may be welded, riveted or otherwise secured in any desired manner upon the outer surfaces of the supports.

As suggested in Figures 5 and 6 of the drawings, I may also desire to construct the body of the support and the gripping members in one piece. The foregoing may be accomplished through a process of punch pressing whereby the gripping members 13′ may assume the shape and disposition illustrated in Figure 6 whereby the side edges of the shoe insole may be accommodated after the manner referred to in the description of the preferred form. It will, of course, be appreciated that the channel members 13′ are formed on the straight connecting portion at the point of juncture of the limbs of the clamping members therewith.

In both cases, that is, when either the preferred or modified forms of the invention are employed, the upstanding ends of the support body are inwardly compressed to spread the gripping members apart whereby the support may be readily removed and replaced with relation to the shoe insole. Subsequent to the application of the desired form of support within the shoes, the engaging of the foot with the upper surface of the support and the spreading apart of the arms therefor will cause better gripping engagement between the members 13 or 13′ and the side edges of the shoe insole.

By the arrangement of a device of this character upon shoes, it will be noted that the latter will be retained in proper position

for use whereby the heels and soles of the shoe will not become unevenly worn.

The invention is susceptible of various changes in its form, proportions and minor details of construction and the right is herein reserved to make such changes as properly fall within the scope of the appended claim.

Having described the invention, what is claimed is:

As a new article of manufacture a shoe attachment embodying a U-shaped body portion including a straight connecting portion and spaced yieldable upstanding clamping members, and spaced gripping members of channel formation formed on the outer face of the straight connecting portion at the point of juncture of the upstanding clamping members and said connecting portions.

In testimony whereof I affix my signature.

ANNA RAPOSY.