June 30, 1931. P. S. COSTELLO 1,812,622

SHOE

Filed Dec. 30, 1929

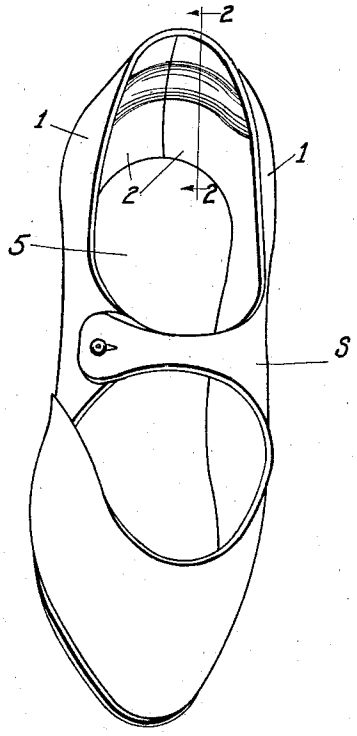


FIG. 1

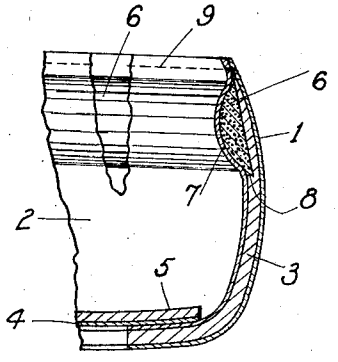


FIG. 2

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UNITED STATES PATENT OFFICE

PAUL S. COSTELLO, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-THIRD TO DOMINIC B. GEORGE AND FRANK E. MITULSKI, BOTH OF ST. LOUIS, MISSOURI

SHOE

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My invention relates to improvements in shoes, and more particularly to the heel portion of the same, and has among its objects, the production of such shoes, which shall be neat and attractive in appearance, and efficient and satisfactory for the purposes to be hereinafter set forth.

The principal object of this invention is to so construct a shoe, that there will be a minimum of slippage between the foot of the wearer and the heel portion of the shoe. Such slippage is not only very uncomfortable, sometimes causing soreness to the heel of the foot, but causing excessive wear both on the stocking and the shoe.

This defect in shoe construction, particularly in the making of ladies' low shoes, has been long recognized, and various attempts have been made to correct or remedy this objectionable feature, mainly by attachments commonly known as "anti-slip" pads which were placed in the heel portion of the finished shoe by the purchaser or wearer himself. These attachments were more or less cumbersome inasmuch as they had to be larger than actually needed, in order to secure the proper anchorage in the shoe, and they were unsightly and were quite apt to slip out of place and cause annoyance.

In carrying out the invention, I provide a simple and inexpensive construction, which is built into the shoe during the process of its manufacture, and in which the means for preventing the slippage hereinbefore mentioned is entirely concealed so that the finished shoe will appear substantially like the customary shoe.

A further object and advantage of making shoes according to the teachings of this invention, is that the shoes may have the usual, full-length inner quarters therein, and thereby causing no ridges or shoulders such as would necessarily be caused when placing an auxiliary heel pad or attachment within the finished shoe.

Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art to which this invention appertains, from the disclosures herein given.

To this end, my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein I have illustrated a preferred embodiment of my invention, and wherein like reference characters indicate like or corresponding parts throughout,

Figure 1 is a perspective view of a shoe having the heel pad built therein and concealed from view; and

Figure 2 is a cross-sectional detail, taken substantially along the line 2—2 of Fig. 1, with the outer sole and heel of the shoe omittted.

In the drawings, S indicates a lady's shoe of any suitable design, such as the low shoe shown, and having the outer quarters 1—1, the inner quarters 2—2, and the heel-opening counter 3. The customary sole counter 4, and inner sole 5 are shown, it being understood that the shoe has the other essential elements such as the heel vamp, heel, outer sole, etc., but these well-known parts do not form a part of the invention and need not be further described herein.

Such shoes generally permit slippage between the foot of the wearer and the heel portion of the shoe, causing annoyance, undue wear to the stocking and the shoe, and blistering or other injury to the foot at the area of slippage.

In order to overcome this defect, I have provided the means hereinafter described. Such means comprise a pad 6 made of some resiliently compressible material, preferably of sponge rubber, interposed between the inner and outer quarters 1 and 2. This pad is preferably convex on one face, as at 7, so that when it is covered by the inner quarter piece, the same will be bulged inwardly of the shoe thereover, and the foot will be snugly engaged at said bulged portion. Such a resilient engagement between the shoe and the foot will prevent slippage therebetween, without discomfort to the wearer.

The pad may be secured in place between the inner and outer quarters, by any suitable means, preferably by an adhesive, and if de-

sired, the counter 3 may be provided with a shoulder or seat 8 to reduce the thickness of the shoe at the portion covered by the pad, and yet retain the required resiliency had by the full thickness of the pad.

The sponge rubber pad will retain its resilience throughout the life of the shoe itself, and its smooth surfaces permit of a neat and workmanlike adhesion between its surfaces and the opposed surfaces of the adjacent elements.

The pad as shown is elongated in shape, and extends parallel to the top edges of the quarters, the lower edge of the pad being at a substantial distance above the bottom of the heel opening. The bounding edges of the pad are preferably tapered off or feathered so as to provide a gradual slope to the resultant bulge within the shoe, and thereby avoid any sharp edges or shoulders formed within the shoe thereat.

The pad may be made in the one piece as shown, extending around the heel portion of the shoe a distance corresponding to the form shown, or it may comprise shorter segments, as desired.

The inner and outer quarters are secured together at their top edges, as by stitching in the usual manner, as at 9.

From the foregoing description, it is seen that I have provided a heel pad unitary and built into the shoe itself, and not an attachment therefor, and in which the pad is entirely concealed from view. The full benefits of the resiliency of the pad is thus had, while all of its objectionable features, such as causing deterioration to the stocking due to the action of the chemicals of the rubber thereon, are avoided.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, except as limited by the claims.

What I claim as new and desire to secure by Letters Patent is:

1. In an article of the kind described, the combination with a shoe having an inner and outer quarter with a counter therebetween, of means for preventing the accidental slipping movement between the heel portion of the shoe and the foot of the wearer and comprising a resilient pad positioned between said inner quarter and counter; and a seat provided in said counter to receive said pad.

2. In an article of the kind described, the combination with a shoe having inner and outer quarters with a counter element therebetween, of a shoulder formed in said counter; and a resiliently compressible pad having a convex surface interposed between said quarters with said convex surface opposed to the inner surface of the inner quarters, and the lower edge of said pad seated against said shoulder in the counter for positioning said pad in place.

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