Dec. 22, 1936. J. K. MATTSSON 2,065,386

ANTISLIP DEVICE FOR SHOES

Filed Jan. 16, 1935

Fig. 1.

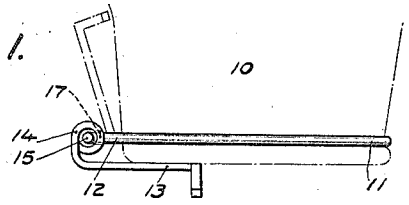


Fig. 2.

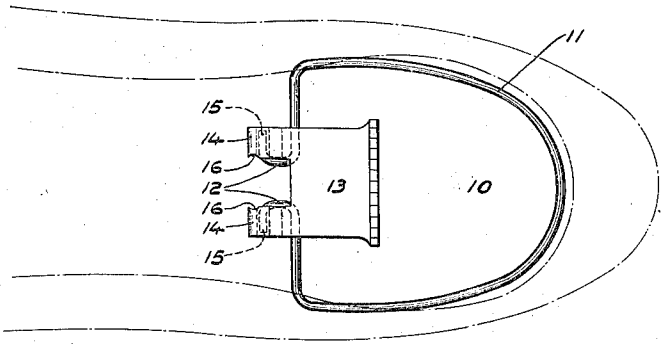


Fig. 3.

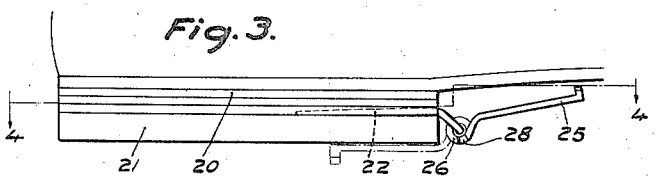
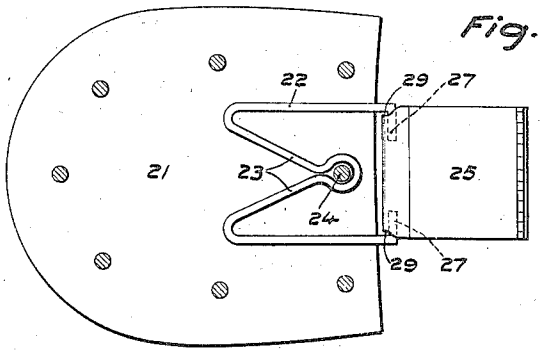


Fig. 4.



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ANTISLIP DEVICE FOR SHOES

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5 Claims. (Cl. 36—61)

The antislip devices available on the market which are intended to be used on shoes are usually adapted to be nailed or screwed to the heel of the shoe which fact among other things presents the drawback that holes occur in the shoe when one removes the antislip device as for example in the season when the device is unnecessary. It is therefore difficult to mount the device securely on the shoe again. There are also antislip devices to be had which may be applied to the shoe without using screws or nails but they are very cumbersome or awkward. There is no antislip device to be had which may be used on both galoshes and other shoes.

This invention relates to an antislip device which may be used on all kinds of shoes and which, moreover, eliminates the abovementioned drawbacks.

The antislip device according to the invention consists of a resilient metal heel clamp adapted to fit about the heel of the shoe. Between the curved end portions of the said heel clamp, which end portions are located at the front side of the heel, there is pivotally and detachably mounted a creeper which is retained in its place only by the resilience of the metal clamp.

Two embodiments of the invention are illustrated in the accompanying drawing, in which

Figs. 1 and 2 are a lateral elevation and a bottom view respectively of the antislip device mounted to a galosh heel.

Figs. 3 and 4 show the device mounted to a shoe provided with a rubber heel, wherein

Fig. 3 is a lateral elevation of the heel, and

Fig. 4 is a section along the line 4—4 of Fig. 3.

10 indicates the heel of the galosh about the lower end of which the metal wire heel clamp 11 is mounted. The end portions 12 of the heel clamp located at the front side of the heel are U-shaped and bent in such a way that the free leg portions 15 lie away from the heel. A creeper 13, which is provided with two eyes 14, each of which is threaded over one of the free leg portions 15 of the U-shaped portions, is pivotally mounted about the said legs. Thus, when not used, the creeper may be swung up into an inoperative position. This position is indicated by dot- and dash lines in Figure 1. Further, each eye 14 of the creeper 13 on its inner side is provided with two recesses 16, 17, the recesses of one eye lying opposite to those of the other eye, and into which recesses the U-shaped portions 12 of the metal wire clamp 11 snap, since the U-shaped portions tend to spring away from each other due to the resilience of the clamp. The said recesses are located at such places on the eyes that the engagement with the U-shaped portions 12 takes place when the creeper 13 is in an operative or inoperative position. The recesses 16 effect the locking in the inoperative position and the recesses 17 in the operative position. When the antislip device is mounted on the heel the metal wire heel clamp is first placed about the heel and then the creeper is threaded on the free legs 15. No further securing devices are necessary, and since the elasticity of the heel assists in the resilience the device will be firmly secured to the shoe.

In the embodiment of the device illustrated in Figs. 3 and 4 the numeral 20 indicates the leather portion of the heel of a shoe provided with a rubber heel 21. In this case the clamp 22 is W-shaped and consists of spring steel and is adapted to be inserted between the rubber heel 21 and the leather portion 20 of the heel. The clamp has a flattened form in order to be more easily inserted between the heel portions. At a distance from the central junction point, the central legs 23 of the clamp are bent toward each other for the purpose of obtaining a locking effect after the clamp has been inserted. When the clamp is being inserted the pin 24, which is one of the pins securing the rubber heel 21, pushes the legs 23 apart whereafter the legs, when the bent-in portions have passed the pin, return to their original position. The creeper 25 is provided with an eye 26 in which the bent in end portions 27 of the clamp are inserted. The eye 26 is provided with recesses 28, 29 into which the side legs 22 of the clamp, which tend to move toward each other due to the resilience of the clamp, snap when the creeper is in the operative and the inoperative position respectively. As in the former modification, no further securing devices are necessary in this embodiment of the antislip device.

Should one, however, wish to reinforce the engagement between the antislip device and the heel the clamp may be provided with projections which engage the heel portions when the device is used.

In the type of antislip device shown in Figs. 3 and 4 the clamp may have a great many different shapes according to the arrangement of the nails retaining the rubber heel.

Several embodiments of the invention may be thought of without departing from the fundamental idea of the same, i. e. a resilient clamp about the free end portions of which there is swingably mounted a creeper.

Having now described my invention, what I

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

1. An antislip device for shoes comprising a resilient metal heel clamp including curved end portions located in front of the heel, a creeper pivotally and removably mounted between said curved end portions, said creeper being provided with at least one eye in which said end portions engage, said creeper having a plurality of recesses into which the portions of said resilient clamp adjacent the end portions are sprung into engagement so as to removably hold said creeper in operative or inoperative position.

2. An antislip device for rubber heeled shoes as claimed in claim 1 wherein said resilient metal heel clamp constitutes a W-shaped member removably secured between the rubber heel of the shoe and the remaining portion thereof.

3. An antislip device for rubber heeled shoes as claimed in claim 1 wherein said resilient metal heel clamp constitutes a W-shaped member, the central legs of which are bent toward one another at a point removed from the junction of said legs, said member being removably secured between the rubber heel of the shoe and the remaining portions thereof.

4. An antislip device for shoes as claimed in claim 1 wherein the end portions of said clamp are bent away from each other.

5. An antislip device for shoes as claimed in claim 1 wherein the end portions of said clamp are U-shaped, the bases of said U-shaped portions facing one another.

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