April 3, 1945. C. HARVEY 2,372,828

ANTISLIP DEVICE

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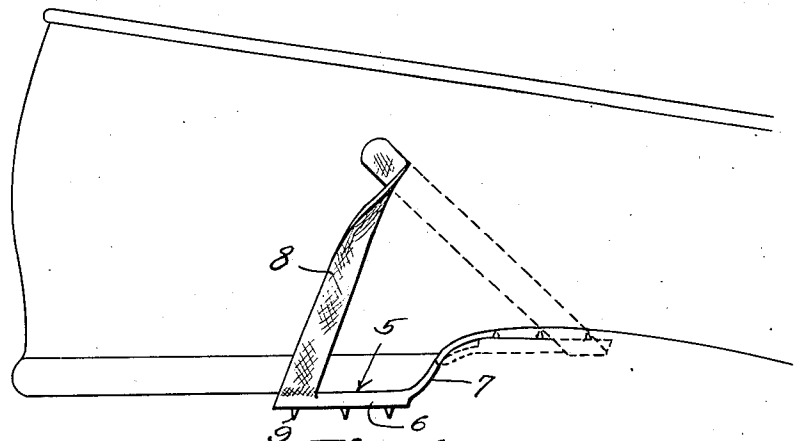


Fig. 1.

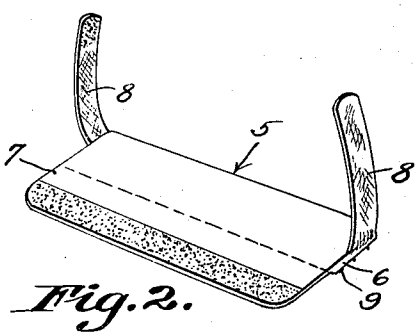


Fig. 2.

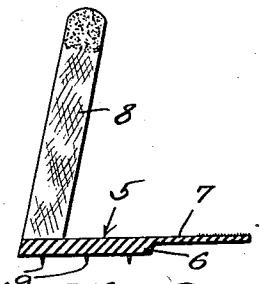


Fig. 3.

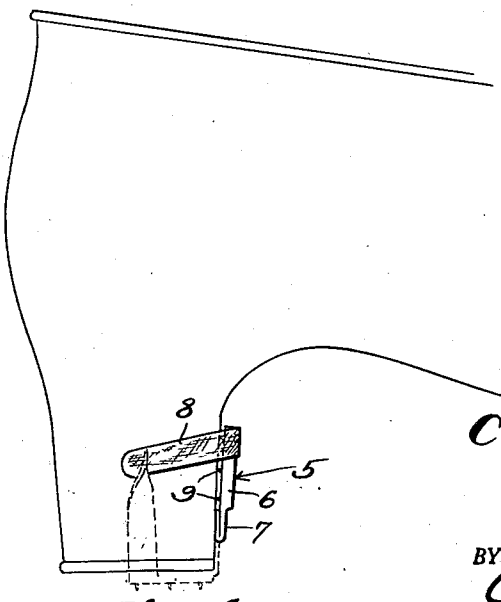


Fig. 4.

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ANTISLIP DEVICE

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3 Claims. (Cl. 36—61)

This invention relates to an anti-slip device or ice creeper, designed for attachment to rubbers, overshoes, and the like, the primary object of the invention being to provide an anti-slip device which may become a permanent part of the rubber or overshoe to which it is attached, and may be readily moved from its protected position under the instep of the rubber or overshoe, to its active position, over a portion of the heel of the overshoe.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing:

Figure 1 is an elevational view illustrating an anti-slip device in its active position over the front edge of the heel of an overshoe, the anti-slip device being shown in its inactive position, in dotted lines.

Figure 2 is a perspective view of the anti-slip device.

Figure 3 is a sectional view through the body portion of the anti-slip device.

Figure 4 is a view illustrating the anti-slip device as positioned on an overshoe having a heel to accommodate the usual Cuban or French heel of a shoe.

Referring to the drawing in detail, the body portion of the anti-slip device is indicated by the reference character 5, and is constructed preferably of rubber of a semi-rigid character, the body portion being substantially thick throughout a portion of its width as indicated by the reference character 6, while the forward edge 7 thereof is relatively thin to permit it to flex readily, for purposes to be hereinafter more fully described.

Extending from the side edges of the thick portion 6 of the body, are flexible straps 8 which are constructed of rubber suitable for vulcanizing to the outer side of the rubber or overshoe with which the anti-slip device is used. While I have stated that these straps 8 may be vulcanized to the rubber or overshoe, it is also to be understood that these straps may be attached by cementing them to the rubber or overshoe.

The straps 8 are disposed adjacent to the rear edge of the body 5, so that when the body 5 is positioned as shown by Fig. 1 in full lines, a binding action will be set up between the body 5 and heel of the overshoe or rubber of which the anti-slip device forms a part, when the anti-slip device is moved to its active position.

The body 5 is preferably secured to the sole of the overshoe by vulcanizing the forward edge of the thin portion 7 thereto, although a coating of cement may be supplied to the forward upper surface of the thin portion 7, should it be desired to secure the device to an overshoe, when the device is sold and used as an article of manufacture.

Due to the construction shown and described, it will be seen that the anti-slip device may be readily swung from the position shown in full lines in Fig. 1 of the drawing, to the position as indicated in dotted lines in Fig. 1, where it will be out of the way and protected within the space formed by the instep portion of the overshoe.

Spikes such as indicated at 9 may be suitably arranged in the outer surface of the body 5 so that when the body is moved to a backward position, the spike will be presented to the walking surface to dig into the ice or snow to prevent slipping of the person using the device. When the anti-slip device is out of use, the spikes rest against the surface of the in-sole of the overshoe, and are protected to maintain the spikes sharp.

As shown by Fig. 4 of the drawing, the anti-slip device is used in connection with a high-heeled rubber or overshoe. In this case the body portion when out of use, rests directly against the front edge of the heel, so that it may be readily moved to its active position as shown in dotted lines, the elasticity of the flexible strap 8, acting to draw the body of the device into close engagement with the heel.

What is claimed is:

1. An anti-slip device for overshoes, comprising a body having a flexible forward portion adapted to be secured to an overshoe, flexible straps extending from the rear edge of the body and adapted to be secured to the sides of an overshoe, spikes extending from the body, said body adapted to be swung from its inactive position under the instep of the overshoe, to its active position over the heel thereof, and said straps adapted to draw the body into close engagement with the overshoe.

2. An anti-slip device for overshoes, comprising a body constructed of semi-rigid material, a thin flexible forward portion, forming a part of the body and adapted to be permanently secured to an overshoe, flexible straps extending upwardly from the rear edge of the body and adapted to

be secured to the sides of an overshoe, securing the body to the overshoe, and said body adapted to be swung from its inactive position under the instep of the overshoe, to its active position over the heel portion thereof.

3. An anti-slip device for overshoes, comprising a substantially wide body adapted to be positioned under the instep portion of a rubber, the forward portion of the body adapted to be secured to the rubber, straps secured to the body and adapted to be secured to the sides of the heel portion of the rubber, and said straps adapted to draw the anti-slip device to the rubber.

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