Feb. 13, 1940. B. A. DOW 2,189,884

ANTISLIPPING DEVICE

Filed Feb. 10, 1938

Fig. 1.

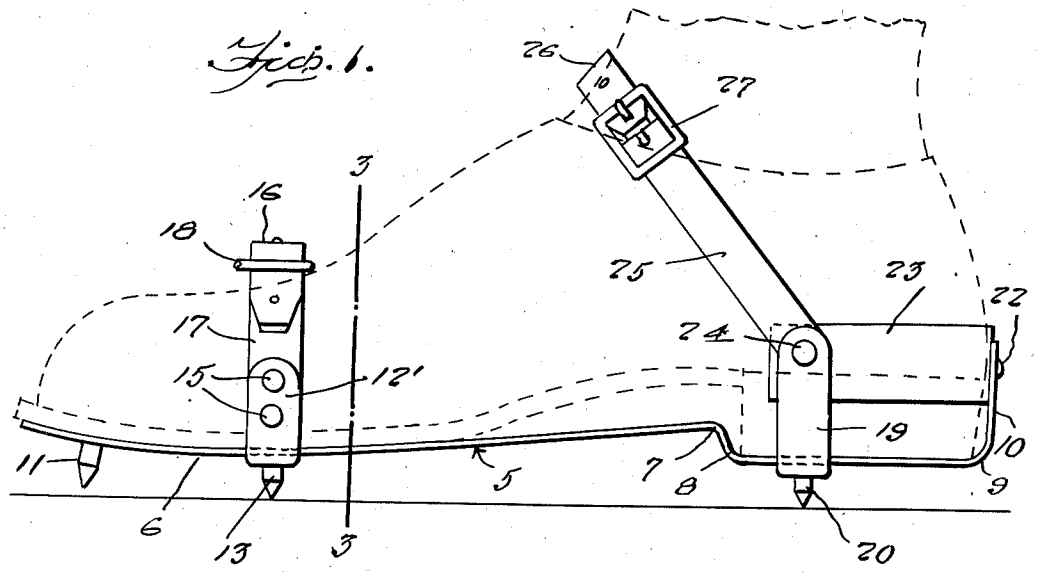


Fig. 2.

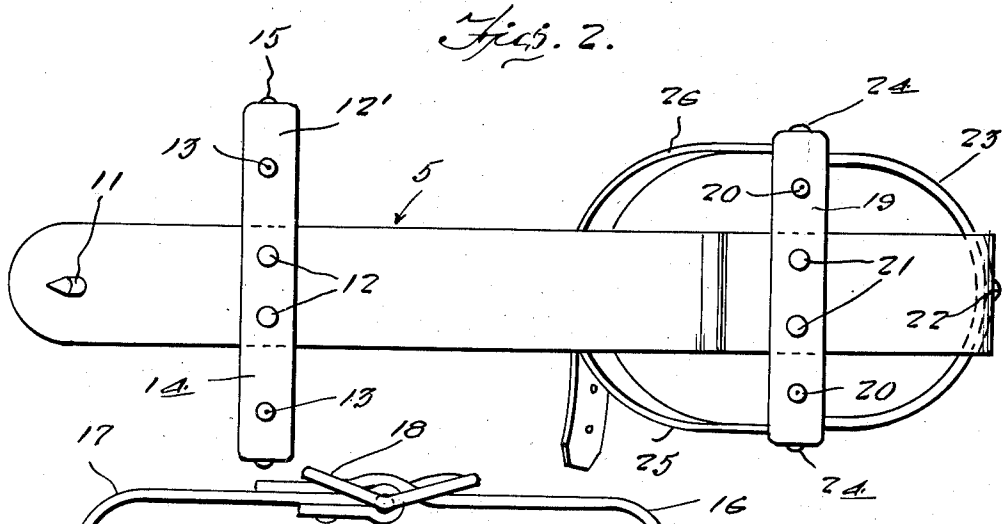
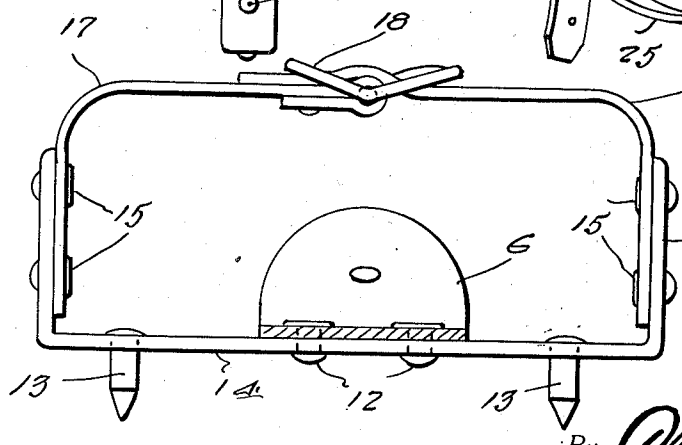


Fig. 3.



Inventor

Bartlett A. Dow

By Clarence O'Brien

Hyman Berman

Attorneys

Patented Feb. 13, 1940 2,189,884

UNITED STATES PATENT OFFICE

2,189,884

ANTISLIPPING DEVICE

Bartlett A. Dow, Portland, Maine

Application February 10, 1938, Serial No. 189,876

1 Claim. (Cl. 36—7.6)

This invention relates to antislipping device and more particularly to an antislipping device to be worn on the feet when walking on ice.

One object of the invention is to provide a device of the above nature which can be attached to the foot over the shoes, and held securely against displacement.

Another object is to provide a device of the above nature which will be simple in construction, inexpensive to manufacture, and very efficient and durable in use.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a side elevational view of my invention.

Figure 2 is a bottom plan view of the invention.

Figure 3 is a transverse sectional view taken substantially on the line 3—3 of Figure 1.

Referring now to the drawing in detail it will be seen that the reference numeral 5 designates generally a length or strip of metal or other suitable material which is curved to conform to the sole of a shoe as at 6. The strip 5 is further bent as at 7 to form an abutment 8 for engagement with the front end portion of a shoe heel. From the abutment 8 the strip of metal 5 extends under the heel and is bent as at 9 to form the extension 10 which extends upwardly at the back of the heel. Spaced from the toe end of the metal strip 5 and riveted or otherwise secured thereto is a calk 11.

Intermediate the end portions of the metal strip 5 and at the curved portion 6 thereof and secured thereto as by rivets or other securing means 12 is a substantially U-shaped member 12'. Calks 13 are riveted or otherwise secured to the base 14 of the U-shaped member 12', while each of the upstanding arms of the U-shaped member 12' have secured thereto as by rivets or other securing means 15 one end portion of the flexible straps 16 and 17. The straps 16 and 17 pass over the vamp of the shoe with their free end portions brought together and held in adjusted position through the medium of a buckle or other suitable fastening means 18.

A substantially U-shaped member 19 having calks 20 riveted or otherwise secured thereto is secured to the heel portion of the metal strip 5 by rivets or other securing means 21.

Secured to the upper end portion of the extension 10 by a rivet or other securing means 22 and extending laterally therefrom is an arcuate member 23. The end portions of the arcuate member 23 are secured to the upper end portions of the U-shaped member 19 by rivets or other suitable securing means 24. The rivets 24 also secure one end portion of each of the straps 25 and 26, while the straps 25 and 26 are passed over the instep of the shoe with their free ends secured together through the medium of a buckle or other suitable fastening means 27 to fasten the heel end portion of the device to the foot.

The operation of the device is thought to be manifest, but may be briefly described as follows:

When attached to the foot the calks 13 and 20 will establish an anti-slipping contact with icy or frozen surfaces and thereby prevent accidental slipping and accompanying danger when walking on an icy or slippery surface.

Although I have shown and described herein a preferred embodiment of my invention, it is to be definitely understood that I do not desire to limit the application of the invention thereto, and any change or changes may be made in the materials and in the structure and arrangement of the parts within the spirit of the invention as claimed.

What is claimed is:

In an antislipping device, a plate having a curved sole engaging portion and upwardly extending shoe heel engaging portion, a substantially U-shaped member secured to the bottom side of said curved sole engaging portion in spaced relation to the outer end thereof, a second substantially U-shaped member secured to the bottom side of said plate in spaced relation to said upwardly extending shoe heel engaging portion, a curved member secured intermediate its end portions to said upwardly extending shoe heel engaging portion, flexible arch straps secured to and between the end portions of said second U-shaped member and said curved member and extending at an angle therefrom, flexible toe straps secured to said first-named U-shaped member and extending therefrom in alignment therewith for coaction with said arch straps to secure said device to a shoe, and spaced parallel rows of calks secured to and depending from the bottom side of said plate and U-shaped members.

BARTLETT A. DOW.