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DETACHABLE ANTISLIP HEEL

Filed Jan. 15, 1926

Fig. 1.

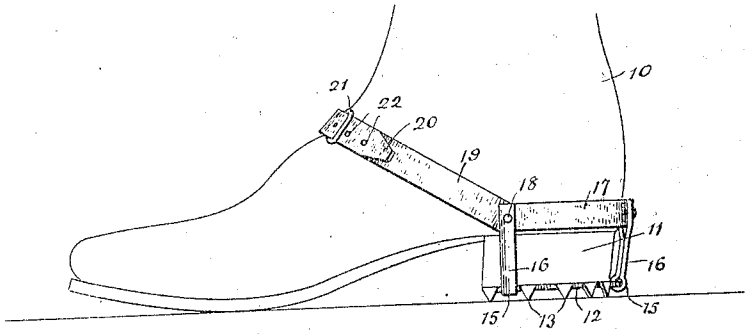



Fig. 2.

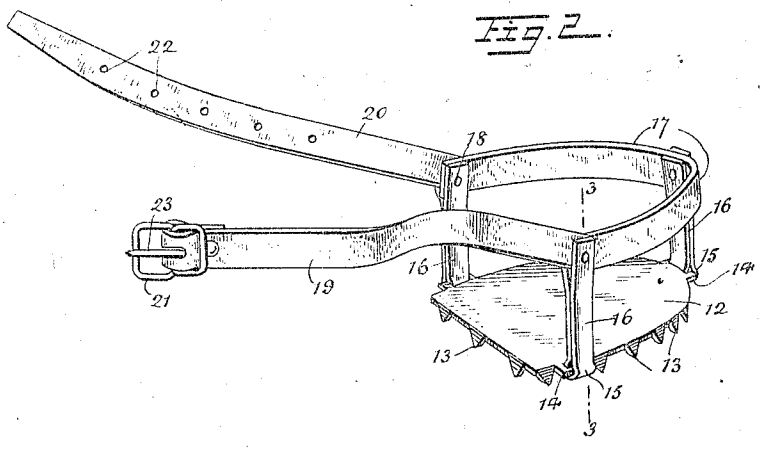
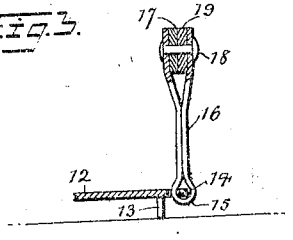



Fig. 3.




WITNESSES

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# UNITED STATES PATENT OFFICE.

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## DETACHABLE ANTISLIP HEEL.

Application filed January 15, 1926. Serial No. 81,509.

The present invention relates to an improved device of the character adapted to be detachably secured to a shoe for preventing slipping, and insuring a firm ground engaging tread surface at the heel of the shoe.

An object of the invention is to provide a device of this character in the nature of a detachable antislip heel plate which may be readily applied to or removed from an ordinary street shoe, and which when in applied position will effectively prevent slipping.

Further objects of the invention are to provide an antislip device of simple, practical construction, which will be rugged, durable and inconspicuous in use, and which is well suited to the requirements of economical manufacture.

With the above noted and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter set forth and pointed out in the claim. The invention may be more fully understood from the following description in connection with the accompanying drawings, wherein—

Fig. 1 is a view in side elevation showing my improved antislip heel in applied position.

Fig. 2 is an enlarged perspective view of the device removed from a shoe.

Fig. 3 is a sectional detail on the line 3—3 of Fig. 2.

In the drawings I have used the reference character 10 to designate a shoe provided with the usual heel portion 11. The device of the present invention is in the nature of a flat metallic plate 12 conforming to the under face of the shoe heel 11, and carrying a plurality of depending peripheral spurs or teeth 13 adapted to dig into the ice and prevent a wearer of the plates from slipping. The plate is preferably made of steel or of some material which will offer rugged teeth at 13 adapted to sustain the weight of a wearer without bending. By providing a number of such teeth the weight will be fairly evenly distributed over them, and the teeth may be of comparatively small size, and still efficiently serve their purpose without bending.

A number of expedients might be resorted to for quickly and securely attaching the heel plate to a shoe. The attaching means which I have shown is subject to a wide variety of variations, but has proven rather efficient inasmuch as it not only permits the heel plate to be quickly attached and removed, but assures firm attachment and permits the plate with its attaching device to be folded into a small compass when removed.

Slotted ears 14 projecting outwardly from the plate edges and integral with the plate receive the looped intermediate portions 15 of metallic straps 16, the loops and the slotted ears forming a pivoted connection. Preferably one metal strap is attached at the rear of the heel plate and two other straps are attached adjacent the forward corners of the plate. The free ends of the strap are spread apart to receive a U-shaped leather strap 17, the flexible leather strap being secured between the upper ends of the metallic straps by rivets 18 or similar securing devices.

The two metallic straps at the forward end of the heel plate also receive and secure foot embracing strap elements 19 and 20, one of which carries a buckle 21, and the other of which is formed with a series of holes 22 adapted for coaction with the tongue 23 of the buckle.

The construction which involves pivoting of the metallic straps 16 of the heel plate is not only automatically self adjusting to various sized heels within a certain range of sizes, but also permits the metallic straps to be folded inwardly upon the heel plate and the detachable heel structure to be stored or carried in a relatively small space when not in use.

Various changes and alterations might be made in the general form and arrangement of parts described without departing from the invention. Hence I do not wish to limit myself to the details set forth, but shall consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claim.

I claim:—

A detachable antislip heel including a metal plate conforming approximately to

the shape of the under face of a shoe heel, said plate being provided at its edges with a plurality of extensions, certain of said extensions being pointed and turned down to provide a series of approximately equidistantly spaced depending spurs at the marginal edge of the plate, other extensions lying in the plane of the plate and being slotted for the reception of securing straps, metal straps including looped intermediate portions accommodated in the slots and shoe engaging straps retained between the free ends of the metallic straps.

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