This invention relates to new and useful improvements and structural refinements in anti-slip attachments for shoes, and the principal object is to provide a device of the character herein described, such as may be effectively and conveniently employed to prevent the user from slipping, while walking on ice covered ground, or the like.

A further object of the invention is to provide an anti-slip attachment for shoes, which may be also employed when walking on inclined surfaces, such as roofs.

Another object of the invention is to provide an anti-slip attachment which may be readily applied to or removed from the shoe.

An additional object of the invention is to provide an anti-slip attachment which does not, in any way, interfere with normal walking.

A still further object of the invention is to provide an anti-slip attachment for shoes, which is simple in construction and which cannot, easily become damaged.

With the above more important objects in view, and such other objects as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings, in which:

Figure 1 is a plan view of a sheet of abrasive material used in the invention;
Figure 2 is a side elevation thereof;
Figure 3 is a perspective view of the invention, showing the same mounted upon a shoe;
Figure 4 is a fragmentary perspective view showing the attachment of the abrasive sheet to the shoe, and
Figure 5 is a perspective view of a toe clip used in the invention.

Like characters of reference are used to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention embodies in its construction a sheet of abrasive material, such as emery cloth, or the like, designated generally by the reference character 10. It will be noted that this sheet is cut to form a removable sole 11 and an integral shank portion 12, these being configured to substantially conform with corresponding parts of the shoe 13, to which the invention is removably attached.

A forwardly extending tongue 14 is formed integrally at the toe of the sole 11, and the rear end of the shank portion 12 is doubled upon itself, approximately along the reference line 15, to provide the doubled portion 16, as is best shown in the accompanying Figure 3.

The sheet 10 is removably attached to the shoe 13 by means of a toe clip 17, this being formed of suitable resilient material such as spring steel, and having a U-shaped configuration, as is best shown in Figure 5. One face of the clip 17 is notched to provide an inwardly disposed angulated detent 18, the purpose thereof being hereinafter more fully explained.

The tongue 14 is upturned and angulated over the thickness of the shoe sole 19 and the clip 17 is pressed over the tongue, with the detent 18 engaging the underside of the sole 11.

An elastic loop or band 20 is passed through an aperture 23 provided in the doubled portion 16 and is secured in position therein by being bound with a suitable cord 22. The loop 20 is removably engageable with the heel 24 of the shoe 13 and it will be noted that the loop and the aforementioned clip 17 will effectively retain the sheet 10 in position on the shoe.

The anti-slip attachment may, of course, be removed from the shoe, by simply disengaging the loop 20 from the heel 24 and removing the clip 17.

It is believed that the advantages and use of the invention will be clearly apparent from the foregoing disclosure and accordingly, further description thereof at this point is considered unnecessary.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as my invention is:

1. An anti-slip attachment for shoes, comprising in combination, a sheet of abrasive material forming a removable sole and a shank portion integral therewith, a resilient toe clip removably securing said removable sole to the sole of a shoe,
and a loop associated with said shank portion, said loop being removably engageable with the shoe heel.

2. An anti-slip attachment for shoes, comprising in combination, a sheet of abrasive material forming a removable sole and a shank portion integral therewith, a forwardly extending tongue formed integrally at the toe of said removable sole, a U-shaped clip, one face of said clip being notched to provide an inwardly disposed angularly positioned adjacent the sole of a shoe, said tongue being upturned and angulated over the thickness of the shoe sole, said clip being pressed over said tongue with said detent engaging the underside of said removable sole, the rear end of said shank portion being doubled upon itself and formed with an aperture in the doubled portion, and a resilient loop secured in said aperture and removably engaging the heel of said shoe.

3. The device as defined in claim 2, in which said abrasive material consists of a sheet of emery cloth.

CLIFFORD W. ROSENBERGER.

REFERENCES CITED

The following references are of record in the file of this patent:

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<table>
<thead>
<tr>
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