Jan. 5, 1954 M. SABBAGH 2,664,650

AUXILIARY ANTISLIPPING SOLE

Filed Nov. 13, 1952

Fig. 1.

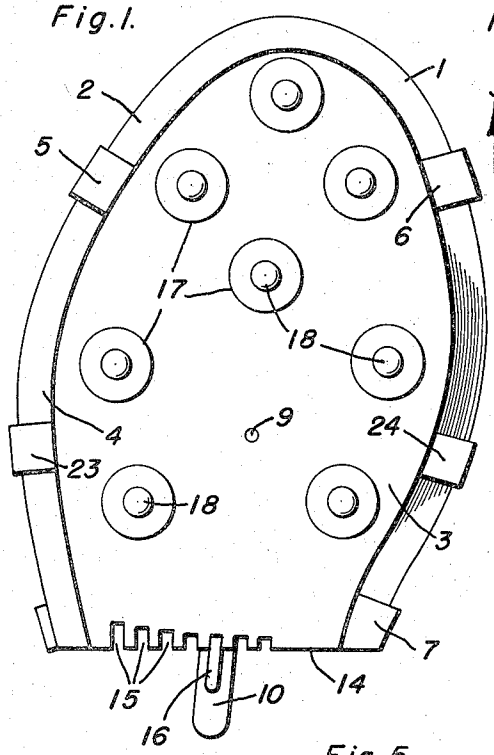


Fig. 2.

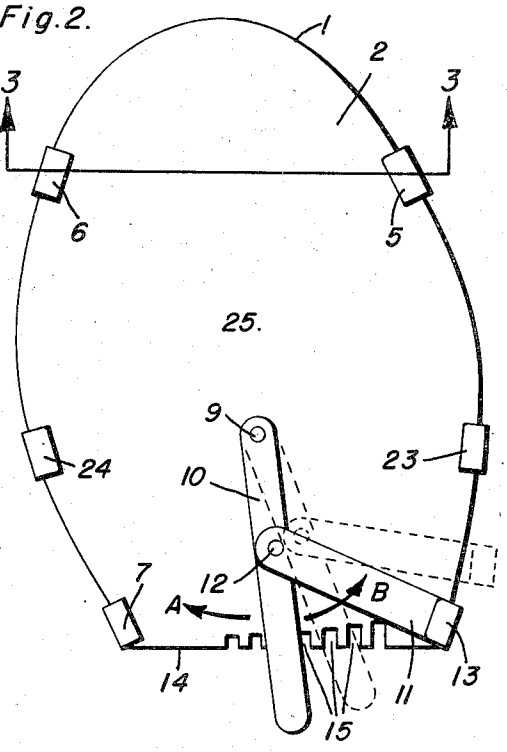


Fig. 5.

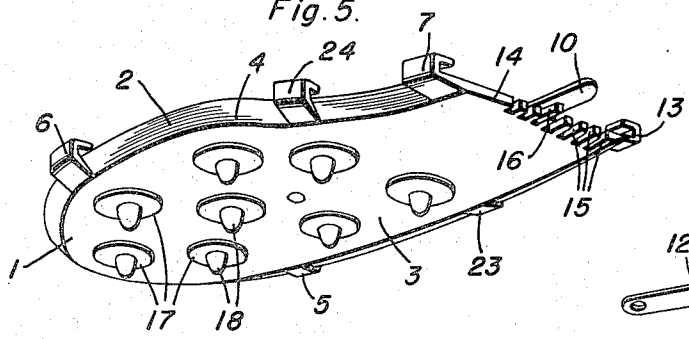


Fig. 4.

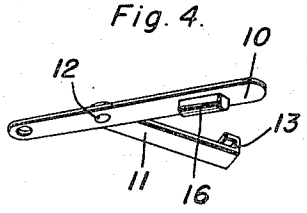
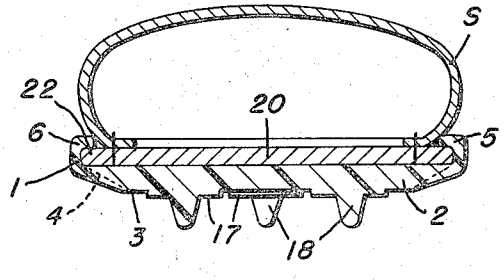


Fig. 3.



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Patented Jan. 5, 1954

2,664,650

UNITED STATES PATENT OFFICE

2,664,650

AUXILIARY ANTISLIPPING SOLE

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Application November 13, 1952, Serial No. 320,177

3 Claims. (Cl. 36—7.7)

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This invention relates to an auxiliary sole which is easily attached to, and detached from, the ordinary dress shoe in order to prevent slipping by the wearer while engaging in such activities as golfing.

The auxiliary sole comprises a shoe sole shaped member, preferably in the shape of a half sole, having clamps attached to and integral with said member at its edges and a lever and clamping link means pivotally attached preferably to the top surface of said member. The bottom surface of said member is tapered adjacent its edges in order to decrease the amount of material necessary to form said sole. Ground gripping means in the form of spikes, cleats, or studs, are attached to and preferably integral with the bottom surface of said sole shaped member. The lever and clamping link means includes a lever pivotally attached to the sole and a link fixedly attached to the lever. Integral with and attached to the link is a shoe clamp. Along the rear edge of the sole member is a plurality of notches adapted to receive the lever and thus to secure the lever from movement. Movement of the lever causes movement of the link having the shoe clamp attached thereto and subsequent engagement of the clamp with the shoe preferably at the welt of the shoe. The sole member is made from a material which is flexible and finds its original shape after flexing, such as a copolymer of 85% vinylidene chloride with 15% vinyl chloride or acrylonitrile which may be plasticized to retain any degree of flexibility or rigidity. Also, flexible laminated cloths may be used. The lever may be made from a resilient metal, for example strip aluminum or strip spring steel, and the clamping link may be made from the same material as that used for the sole member.

There are presently known many various types of auxiliary soles used for the same purpose as that of the auxiliary sole which is the subject of my invention. The auxiliary sole herein presented is flexible and easily constructed. When attached to the ordinary dress shoe, it allows the foot to flex at the ball of the foot and does not create any constriction or restriction at the instep or at the ball of the foot, thus allowing full walking freedom. It is economically produced. The sole member may be made by the well known plastic forming methods which include molding. Also, said sole member may be made by heat forming if a laminated cloth is used as the material. The lever may be made by stamping, and the clamping link may be formed in the same way as the sole member. The auxiliary sole is easily and quickly attachable to and detachable from the sole, and a minimum of material is used in forming it due to the fact that the bottom surface thereof is tapered adjacent its edges. The lever is easily and quickly grasped and locked in place.

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An object of this invention is to provide an auxiliary antislipping sole for shoes which is easily and quickly attached to and removed from an ordinary dress shoe, and when secured on said dress shoe prevents the wearer from slipping while engaging in such activities as golfing.

A further object of this invention is to provide an auxiliary antislipping sole for a dress shoe, which is made of a flexible material and when attached to said shoe allows the wearer full walking freedom with no constriction or restriction at the instep or at the ball of the foot.

Another object of this invention is to provide an auxiliary antislipping sole for a dress shoe which utilizes a minimum of material.

Another object of this invention is to provide an auxiliary antislipping sole for shoes which is easily constructed and comprises a minimum number of component parts.

Another object of this invention is to provide an auxiliary antislipping sole for shoes which has an easily maneuverable locking means.

Another object of this invention is to provide an auxiliary antislipping sole for shoes which can be economically produced.

Another object of this invention is to provide an auxiliary antislipping sole for shoes which will not mar the shoe when attached thereto.

Other objects and features of this invention will become apparent from the following detailed description.

Figure 1 is bottom plan view of the auxiliary antislipping sole.

Figure 2 is a top plan view of the auxiliary antislipping sole.

Figure 3 is a sectional view taken on line 1—1 of Figure 2.

Figure 4 is a perspective view of the lever and clamping link.

Figure 5 is a perspective view of the auxiliary antislipping sole.

More specifically, the auxiliary antislipping sole 1 consists of a flexible member 2, preferably in the shape of a half sole, having its bottom surface 3 tapered upwardly and outwardly, as shown by surface 4 adjacent its edges. Clamping or lug members 5, 6, 7, 23, and 24 are attached to and integral with 3 at its edges as shown. Pivotally attached to the flexible member 2 at its top surface 25 by means of a rivet

9 is a lever 10. Clamp members or lugs 23 and 24 and rivet 9 are on a plane substantially parallel with the rear edge 14 of the sole member 2, as shown in Figure 2. Fixedly attached to said lever 10 by means of a rivet 12 is a link 11 having integral therewith and attached thereto a clamping member or lug 13. Along the rear edge 14 of the sole member 2 are the notches 15, 15. The lever 10 has mounted thereon and joined thereto a lug 16 as clearly shown in Figure 4. The lug 16 is received by one of the notches 15, and thus the sole is locked against movement when placed in position on the shoe. The rivet 9 is positioned in the sole member 2 to the rear of the break line of the shoe, which break line is between the forward end of the shank and the sole portion, the break line being the portion which bends across the toe portion of the shoe S. As shown in the drawing, the lever and link having the lug 13 integral therewith are wholly to the rear of the break line. Attached to the bottom surface 3 of the sole member 2 are the ground gripping members 17, 17 which include the spike members 18, 18. If the sole member 2 is formed by molding, the clamps or lugs 5, 6, 7, 23 and 24 and the ground gripping members 17, 17 may be molded integral with said member. If laminated cloth is used for the sole material, members 17, 17 may be attached thereto by using an adhesive. In the latter case, the ground gripping members may be of like or similar material.

The auxiliary antislipping sole is attached to a dress shoe in the following manner:

In Figure 2 the lever and clamping link locking means, consisting of the lever 10 and the link 11 having the clamp 13 attached thereto, is shown by the dotted lines to be in open position. The auxiliary antislipping sole 1 is slipped onto the sole 20 of a shoe S, shown in Figure 3 in such a manner that the clamps or lugs 5, 6, 7, 23, and 24, which have been set forth to be of flexible material, engage and grip the shoe S at the welt 22. The resilient lever is then moved in the direction of the arrow A until the clamp 13 grips the shoe at the welt 22, and the lug 16 is then received in a notch 15, thereby securing the lever against movement. To remove the auxiliary sole 1 from the shoe the lever is merely moved upwardly to disengage the lug 16 from the notch and moved laterally in the direction of the arrow B, and the auxiliary sole 1 is then merely slipped from the shoe.

Also, the lever and clamping link means may be so attached to the sole that clamp 13 will be positioned, when the sole is locked in placed, at the point where clamp 7 is shown to be attached, and clamp 7 will accordingly be positioned adjacent clamp 23.

From the foregoing subject matter, it is seen that I have provided a cheap, economical, lightweight, and easily useable auxiliary antislipping sole consisting of a minimum number of component parts. This sole is particularly adapted for use by children.

Many alterations and changes can be made without departing from the spirit and scope of this invention which is set forth in the appended claims which are to be construed as broadly as possible in view of the prior art.

I claim:

1. An auxiliary sole adapted to be removably attached to a shoe comprising a flexible sole shaped member having a bottom surface tapered adjacent its edges, integral ground gripping projections on the bottom surface of the member, sole engaging lugs integral with the member at its edegs for gripping the sole of a shoe, a rearwardly extending lever pivotally attached to the top surface of the member to the rear of the break line of the shoe, and a link pivoted to the lever and having a sole engaging lug.

2. An auxiliary antislipping sole adapted to be removably attached to a shoe comprising a flexible sole shaped member having a bottom surface tapered adjacent its edges, integral ground gripping projections on the bottom surface of the member, sole engaging lugs integral with the member at its edges for gripping the sole of a shoe, a rearwardly extending lever pivotally attached to the top surface of the member to the rear of the break line of the shoe, and a link pivoted to the lever and having integral therewith a sole engaging lug, said sole member having a plurality of notches at its rear edge for receiving said lever and securing the sole on the shoe against movement.

3. An auxiliary antislipping sole adapted to be removably attached to a shoe comprising a flexible sole shaped member having a bottom surface tapered upwardly and outwardly adjacent its edges, ground gripping projectiosns on the bottom surface of the member and integral therewith, sole engaging lugs integral with the member at its edges for gripping the sole of a shoe, a rearwardly extending lever pivotally attached to the top surface of the member to the rear of the break line of the shoe, and a link pivoted to the lever and having integral therewith a sole engaging lug.

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