

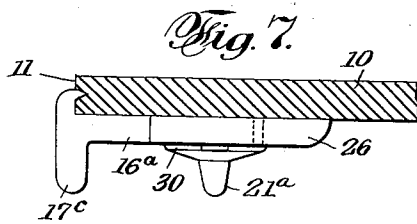
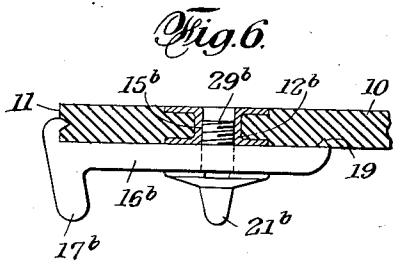
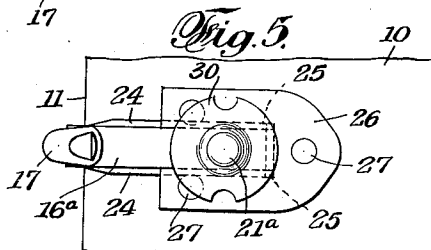
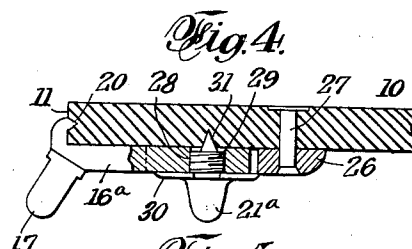
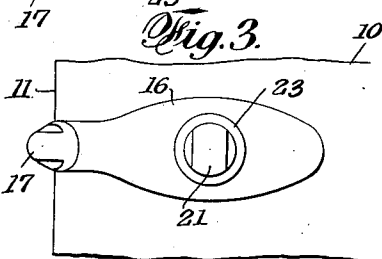
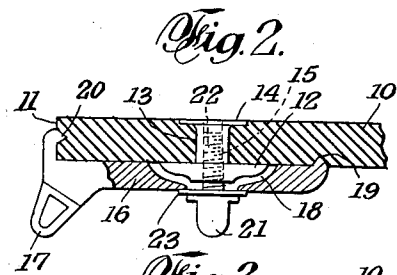
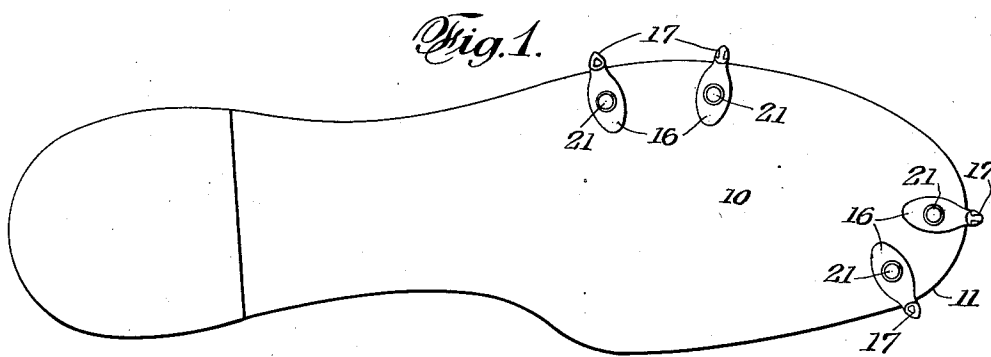
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SPIKE FOR GOLF SHOES

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## UNITED STATES PATENT OFFICE

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## SPIKE FOR GOLF SHOES

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Original application March 1, 1935, Serial No.  
8,828. Divided and this application September  
26, 1936, Serial No. 102,695

6 Claims. (Cl. 36—59)

This invention relates to extension spikes and more particularly to replaceable spikes of this character, particularly adapted for use on sport shoes especially as used by golfers.

5 This invention is a division of an application filed in the names of the present inventor and Clarence W. Fuller, on March 1, 1935 and bearing Serial Number 8,828. Upon requirement of the Patent Office for division, the subject matter of the present application was withdrawn from said application for division, and since the instant applicant was the inventor of only said subject matter, his name was also withdrawn from said application.

10 The present invention seeks to provide improved and readily replaceable extension spikes of the character indicated.

A further contemplated feature of the invention resides in the provision of an extensible spike-carrying member which is adapted to be adjustably positioned in relation to a fixed member permanently secured to the shoe.

Hence, the invention broadly deals with extension spikes which may be removably secured to a shoe and also with extension spikes removably secured to a metallic member which is non-removably fixed to a shoe.

A further feature of the invention resides in the provision of calks or spikes which are removably secured to extension members.

With the above features of the invention in mind, the accompanying drawing, read in connection with the following detailed specification, comprises a preferred disclosure as at present contemplated.

In the drawing:

Fig. 1 is a bottom plan view of a golf shoe provided with extension spikes as contemplated in this invention.

40 Fig. 2 is a cross-sectional view of an extension spike constructed in accordance with the invention.

Fig. 3 is a bottom plan view thereof.

45 Figs. 4 and 5 are respectively similar views of an alternate form of extension spike.

Figs. 6 and 7 are each sectional views of still other forms of the invention.

Referring to the drawing, and with particular reference to Figures 2 and 3, the sole 10 of the shoe is shown as being provided, in spaced relation to its edge 11, with a member 12 having a hollow shank 13 which passes through the sole and is permanently secured thereto as by means of the flange 14. The member 12 and its shank 13 are preferably formed with a threaded seat 15.

The above-described member 12 now forms the means by which an extension spike may be secured to the sole. This spike comprises a plate 16 adapted to be superimposed over the member 12 and may have an integral calk or spike 5 formed on its end, or, as shown, may be provided with a removable calk 17 which may be outwardly directed, as illustrated, at right angles to the plane of the sole, or inwardly directed.

In order to insure that the plate 16 is firmly seated on the sole, this plate may be provided with a hollow 18 to accommodate the member 12; and to guard against inadvertent rotational displacement, said plate may be formed with one or more teats such as shown at 19 to engage and bite into the bottom of the sole. Also, as shown, a spur 20 carried by the plate may be arranged to press into the edge of said sole.

For the purpose of securing the plate 16 to the sole, means such as the calk 21 having a threaded portion 22, may be passed through an opening in said plate so said threaded portion 22 may be engaged in the screw seat 15. Should the comparative sizes of the calk 21 and the mentioned opening require it, a washer 23 may be interposed between the calk and the plate 16.

From the above it can be seen that the extension spike includes two calks, namely 17 and 21. Should either of these become unduly worn, it may be quickly replaced. Should the calk 17 be integrally formed, the plate 16 may be as readily replaced. The secured manner of assembly should be particularly noted since the forces applied to these devices tend to quickly shorten their useful life by either ripping them entirely from the sole or shearing the calks from their carrying means.

Another preferred manner of realizing the invention is disclosed in Figures 4 and 5. In this form the plate 16a is commensurate with the plate 16 and is formed with dove-tail slides 24 engageable in guides 25 in a U-shaped plate 26 which is permanently fixed to the sole as by means of rivets 27.

The plate 16a is provided with a screw seat 28 to receive the screw stud 29 of the calk 21a, said calk being formed with a flange 30 adapted to engage the exposed face of the plate 26 to draw the slides 24 of the plate 16a tightly against the guides 25 when the stud 29 is engaged in its seat. In this form of the invention, the plate also carries a removable calk 17 or an integral one as above described. To further insure against inadvertent displacement of the slide, the stud

29 may be formed with a spur 31 adapted to penetrate the face of the shoe sole.

The above structure, in addition to affording easily operable means for replacing the calks 17 and 21a, also permits accurate setting of the plate 16a and hence the calk 17.

Another simple form of the invention is illustrated in Figure 6, wherein a member 12b commensurate to the member 12 is fixed to the sole so that it is flush with the exposed face thereof and the plate 16b having an integral calk 17b is removably held to the sole by a calk 21b, the threaded shank 29b of which engages a screw seat 15b in the member 12b. In this form the calk 17b is shown as inwardly directed.

As shown in Figure 7, the slide 16a may be provided with an integral calk 17c, which in this instance is shown as disposed at right angles to the sole 10.

From the foregoing, it may be seen that the invention may be practiced in several preferred ways. However, this disclosure by no means exhausts the practical structures which may be utilized in carrying out the invention. For this reason, the prior art, rather than this disclosure should serve as the basis of interpretation of the scope of the invention as claimed.

I claim:

1. An extension spike comprising a member fixed to the sole of the shoe, an extension member, means thereon to penetrate and engage the shoe sole, and means comprising a spike to replaceably lock said extension member to the sole.

2. An extension spike comprising a member fixed to the sole of the shoe, an extension member, means thereon to penetrate and engage the shoe sole, a replaceable spike on said extension member and means comprising a spike to replaceably lock said extension member to the sole.

3. A spike attachment for use at the peripheral edge of golf shoe soles, comprising a spike, a base for said spike extending a considerable

distance to one side of the spike and adapted to rest against the under surface of the shoe sole, a lug extending from the base at another side of the spike for abutting engagement against the edge of the sole, and means including another spike to clamp the extension base to the shoe sole.

4. A spike attachment for use at the peripheral edge of golf shoe soles, comprising a spike, a base for said spike extending a considerable distance to one side of the spike and adapted to rest against the under surface of the shoe sole, the longitudinal edges of said base being beveled, a lug extending from the base at another side of the spike, for abutting engagement against the edge of the sole, means secured to the sole to interfittingly and slidably engage the beveled edges of the base, and means including another spike to clamp the extension base to the shoe sole.

5. A spike attachment for use at the peripheral edge of golf shoe soles, comprising a spike, a base for said spike extending a considerable distance to one side of the spike and adapted to rest against the under surface of the shoe sole, a lug extending from the base at another side of the spike for abutting engagement against the edge of the sole, a spur on said lug for penetrating into the edge of the sole, and means including another spike to clamp the extension base to the shoe sole.

6. An extension spike for shoes comprising a metallic member permanently fixed to the sole of said shoe, a member superimposed over said fixed member and having a portion in engagement with the edge of the sole, a calk on the edge of said member adjacent said sole edge, and means for removably securing the superimposed member to said fixed member and thus to said sole, said means comprising a calk having a stud engaged with said fixed member.

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