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2,421,072

REMOVABLE SPIKE FOR GOLF SHOES

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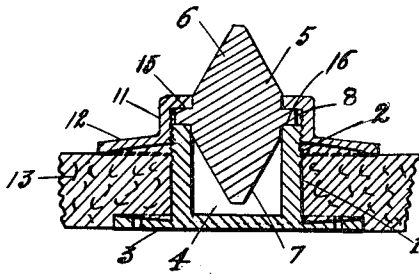


FIG. 1.

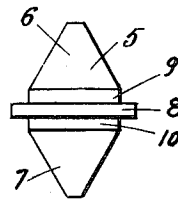


FIG. 2.

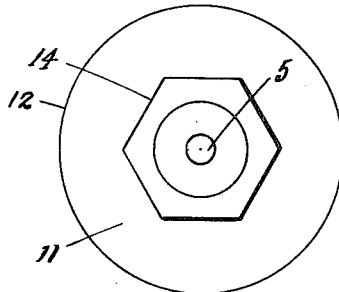


FIG. 3.

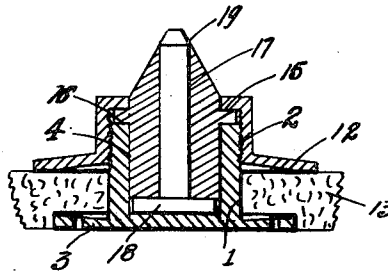


FIG. 4.

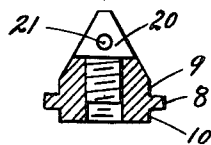


FIG. 5.

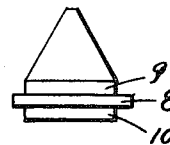


FIG. 6.

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REMOVABLE SPIKE FOR GOLF SHOES

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2 Claims. (Cl. 36—59)

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One of its objects is the provision of a spike that may be removed when worn down and replaced by a new one when it is desired to do so.

Another object of the invention is to provide a double-ended spike, that is, a spike that may be turned end for end when one of the spike ends has been worn down through use.

Another object of the invention is to provide a spike having wearing parts harder and denser than the remainder of the spike.

Other objects of my invention will appear as the description proceeds.

The annexed drawing and the following description disclose what I at present consider the best embodiment of my invention, together with a few of the other possible embodiments of the broader features of my invention.

Similar numerals refer to similar parts throughout the several views.

All the respective figures in the drawing are greatly enlarged views to clearly illustrate the construction of the various components of my invention.

Figure 1 is a cross sectional view through one illustrative embodiment of the invention.

Figure 2 is a view in elevation of the spike.

Figure 3 is a plan view of the embodiment illustrated in Figure 1.

Figure 4 is a cross sectional view of another possible form of spike.

Figure 5 is still another form of a spike.

Figure 6 is still another form of a spike.

Referring to Figure 1 of the drawing there is shown an assembly comprising a foundation member 1 on the upper end of which there is provided an outer threaded portion 2, and on the lower end of which there is provided an integral dished flange 3. In the center of the foundation member there is provided a bore 4 for the reception of the spike member 5. The spike may be formed with a spike at both ends as shown at 6 and 7 in Figures 1 and 2. The spike is provided with an outwardly extending flange 8, and two cylindrical portions 9 and 10 adapted to center the spike in the foundation member and the nut when assembled as shown in Figure 1.

Registering with the threaded portion 2 of the foundation member is a nut 11 which is similarly threaded to engage the thread of the threaded portion 2 of the foundation member. The lower end of the nut is shaped to provide an outwardly extending flange 12 the underside of which is concaved or dished. The concaving or dishing of the flange gives a firm hold on the

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leather 13 or rubber constituting the sole of the golf shoe when the nut is tightened on the foundation member. The nut is provided with a square or polygonal portion 14 to receive a wrench or pliers to tighten and loosen the nut.

The flange on the spike is held between the upper end of the foundation member and the underside of the inwardly extending flange 15 of the nut which engages the flange on the spike as at 16 in Figures 1 and 4.

The spike shown in Figure 4 is provided with an axial bore 17 for the reception of the headed pin 18 that passes therethrough and extends slightly beyond the upper end 19 thereof. The pin is harder and denser than the rest of the metal constituting the other components of the spike.

In Figure 5 the tip 20 of the spike is removably connected thereto and is provided with a bore 21 for the reception of a pin to screw the tip in and out of the remainder of the spike.

Figure 6 shows another modification, a single ended spike.

The component parts of the spike are simple in form as well as being few in number, and are adapted to be manufactured at low cost by modern methods, most of the work being adapted to be done on automatic screw machines, by which a great economy of manufacture is attained.

After the spike is formed, it is die pressed to harden and compress the grain in the metal, thus it is rendered harder and more close grained than the other components constituting the spike assembly. The hardening of the spike increases its wearing quality and greatly prolongs its usefulness.

In the annexed drawing and the above description I have shown the form of spikes at present preferred by me and various illustrative modifications which may be used and still retain some of the benefits of the broader features of my invention, but no attempt has been made to show all the various modifications which might be used, and therefore I do not wish my invention to be limited beyond the terms of the annexed claims.

Having described my invention what I claim is:

1. A spike of the class described, comprising, in combination, a foundation member having an exteriorly threaded cylindrical portion provided with a socket and a dished flange at its lower end, a spike removably mounted in the socket, a nut having a bore threaded to fit the threaded portion of the foundation member and having an annular dished flange rigid with the nut and

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having thereabove a wrench engaging portion, the nut adapted to secure the spike in assembled relation in the foundation member when screwed thereon.

2. A spike of the class described, comprising, in combination, a foundation member having an exteriorly threaded cylindrical portion provided with a socket and a dished flange at its lower end, a hardened spike removably mounted

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in the socket, a nut having a threaded bore to fit the threaded portion of the foundation member and having a dished flange rigid with the nut and having thereabove a wrench engaging portion, the nut adapted to secure the spike in assembled relation with the foundation member when screwed thereon.

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