June 26, 1962 F. C. PHILLIPS 3,040,449

FASTENING DEVICE FOR GOLF SHOE SPIKES

Filed Feb. 23, 1961

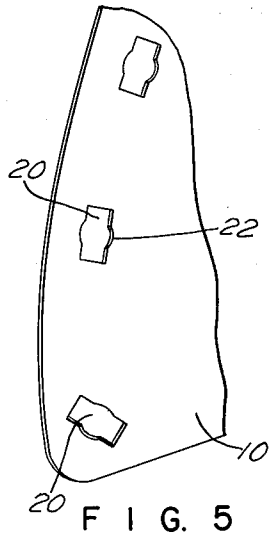


FIG. 5

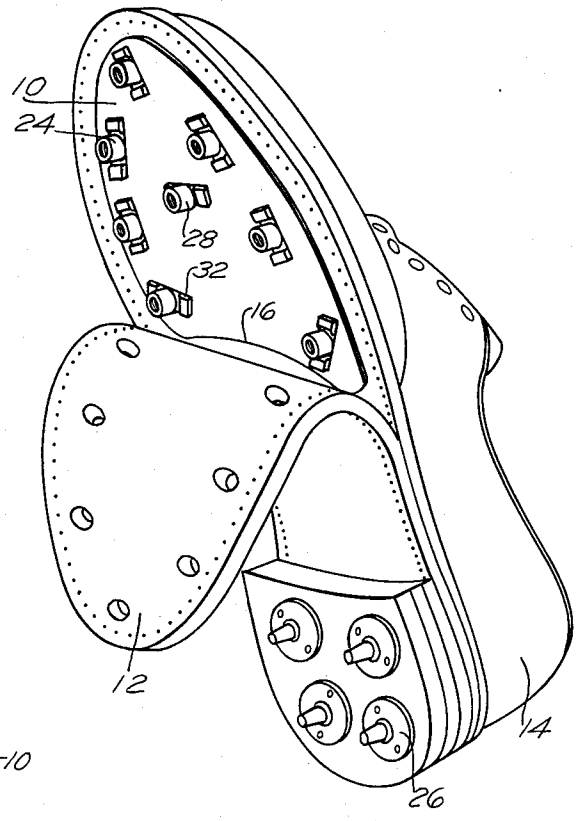


FIG. 1

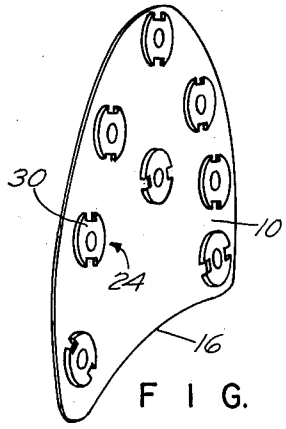


FIG. 2

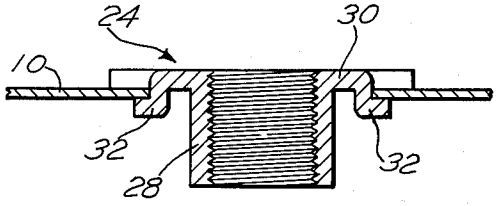


FIG. 3

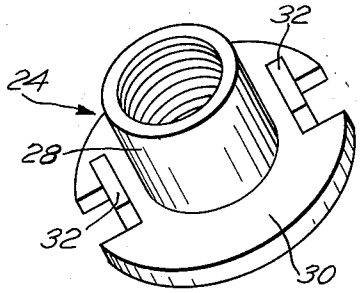


FIG. 4

INVENTOR.
FRED C. PHILLIPS
BY Morse & Altman

ATTORNEYS

United States Patent Office

3,040,449

Patented June 26, 1962

3,040,449
FASTENING DEVICE FOR GOLF SHOE SPIKES

Fred C. Phillips, % F. C. Phillips, Inc.,
Stoughton, Mass.

Filed Feb. 23, 1961, Ser. No. 90,995
2 Claims. (Cl. 36—2.5)

This invention relates to a device to be mounted in the outsole of a golf shoe to receive and anchor spikes such as are commonly used on golf shoes. It is an object of the invention to provide a thin steel plate to be embedded in the outsole of a golf shoe, the plate having a number of spike receptacles permanently secured thereto in such a way as to retain a maximum degree of flexibility of the plate. It is a further object of the invention to fasten the receptacles to the plate by means which are simple but effective. Other advantageous features will be apparent from the following description of the invention and from the drawing, of which—

FIGURE 1 is a perspective view of a golf shoe with the forward portion of the outsole torn away to show the device in place;

FIGURE 2 is a perspective view of the fastening device embodying the invention;

FIGURE 3 is a fragmentary sectional view of the device, on a larger scale;

FIGURE 4 is a perspective view of a receptacle shown in FIGURE 3; and

FIGURE 5 is a fragmentary plan view of the plate shown in FIGURES 1 and 2.

A thin metal plate **10**, preferably of spring steel, is mounted between the outsole **12** and the midsole or insole of an athletic shoe **14**. The plate **10** is shaped to fit within the contour of the fore part of the sole as indicated in FIGURE 1, the rear edge **16** of the plate being curved inward to avoid a straight transverse edge which would tend to cut into the sole as the latter is flexed in the process of walking.

The plate **10** is provided with a number of oblong apertures **20**, the midportions of which may be arcuately widened slightly as indicated at **22** in FIGURE 5. These apertures are designed to receive receptacles **24** for spikes **26**. Each receptacle **24** comprises a tubular stem **28** which is interiorly screw-threaded. At one end of the stem is a radial flange **30** which is preferably but not necessarily circular. At diametrically opposite points of the periphery of the flange **30** two tongues **32** are struck up. These tongues are on either side of the stem **28** and are in planes parallel to the axis of the stem and perpendicular to the plane of the flange **30**.

The stem **28** is adapted to extend through the mid portion of an aperture **20** and to fit snugly in the widened portion **22**. The struck-up tongues **32** are of the same width as the apertures **20** and are so spaced apart that

when the receptacle is thrust through an aperture, their mutually remote faces will touch or be close to the ends of the aperture. When the stem **28** and tongues **32** of a receptacle **24** have been pushed through an aperture from the top side of the plate **10** until the flange **30** bears against the top face, the end portions of the tongues **32** are then bent over to engage the areas of the bottom face of the plate at the ends of the aperture. This simple structure firmly locks the receptacle in place and the engagement of the side edges of the tongues with the side edges of the aperture prevents any turning of the receptacle when a spike is screwed into or out of the stem **28** of the receptacle.

Perforations **36** are provided in the outsole **12** into which the stems **28** of the receptacles can extend when the outsole is assembled on the shoe.

I claim:

1. A fastening device for golf shoe spikes, comprising a thin plate of spring steel shaped to fit within the contour of the fore part of a shoe sole, said plate having a plurality of oblong apertures therethrough, and a spike receptacle mounted in each said aperture, each said receptacle comprising an interiorly threaded cylindrical tube extending through the middle of one of said apertures and a flange on an end of the tube bearing against the top face of the plate, said flange having two tongues struck up from diametrically opposite points of the flange and extending through the aperture to overlap the under face of the plate at the ends of the aperture.

2. A fastening device for golf shoe spikes, comprising a thin plate of spring steel shaped to fit within the contour of the fore part of a shoe sole, said plate having a plurality of oblong apertures therethrough, each aperture having a widened mid portion bounded by circular arcs, and a spike receptacle extending through each said aperture, each said receptacle comprising an interiorly threaded cylindrical tubular stem fitting the mid portion of the aperture through which it extends, and a circular flange at one end of the stem bearing against the top surface of the plate, said flange having two diametrically opposite tongues struck up therefrom and extending down through said aperture near the respective ends thereof, the extremities of said tongues overlapping portions of the plate adjacent to the ends of said slot.

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