

Dec. 14, 1943.

T. S. PARK

2,336,632

ATHLETIC SHOE PAD

Filed Dec. 29, 1941

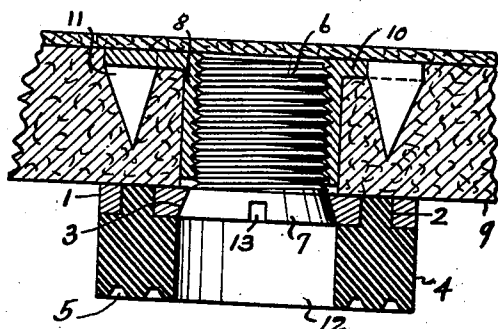


FIG. 1.

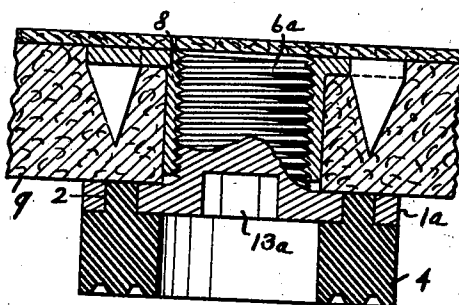


FIG. 2.

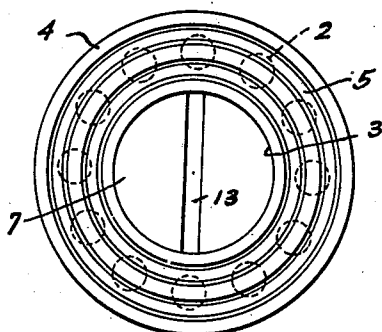


FIG. 3.

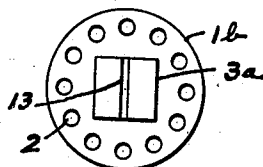


FIG. 5.

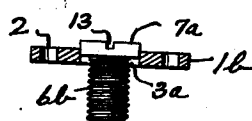


FIG. 4.

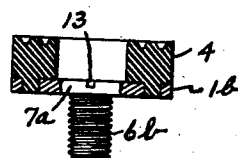


FIG. 6.

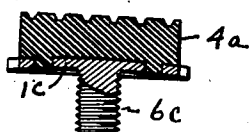


FIG. 7.

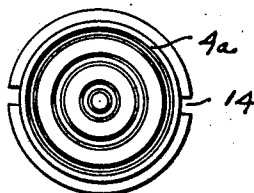


FIG. 8.

By

Inventor
Tracy S. Park

E. V. Hardway,
Attorney

UNITED STATES PATENT OFFICE

2,336,632

ATHLETIC SHOE PAD

Tracy S. Park, Houston, Tex.

Application December 29, 1941, Serial No. 424,811

6 Claims. (Cl. 36-59)

This invention relates to an athletic shoe pad.

An object of the invention is to provide a shoe pad of the character described designed to be used as a substitution for the cleat with which golf shoes and other athletic shoes are ordinarily equipped.

Another object of the invention is to provide a shoe pad formed of resilient material and including a rigid plate to which the resilient material is securely attached, said plate having an outwardly threaded shank designed to be screwed into an anchor with which the shoe sole is equipped, said shank being either detachable from, or permanently secured to, the attaching plate.

It is a further object of the invention to provide a pad of the character described which is of such construction as to prevent slippage, but which on account of its resiliency, will, to an appreciable degree, reduce the strain on its anchorage to the shoe sole and make the shoe more comfortable to the wearer than is the case with the ordinary cleat now commonly used.

A further object of the invention is to provide a shoe pad of the character described which may be readily removed from the shoe for replacements and which is not liable to cause injury to other players with whom the pad may come into contact.

Other objects will be apparent from the succeeding specification and as illustrated in the accompanying drawing, wherein:

Figure 1 shows a vertical, sectional, view of the pad attached to a shoe sole.

Figure 2 shows a vertical, sectional, view of another embodiment.

Figure 3 shows a bottom plan view of the form illustrated in Figure 1.

Figure 4 shows a cross-sectional view of an attaching plate, showing a detachable outwardly threaded shank for anchoring the plate to the shoe sole.

Figure 5 shows a plan view thereof.

Figure 6 shows a sectional view of the pad of the form illustrated in Figures 4 and 5.

Figure 7 shows a transverse, sectional view of still another embodiment, and

Figure 8 shows a bottom plan view thereof.

Referring now more particularly to the drawing wherein like numerals of reference designate the same parts in each of the figures, the numeral 1 designates an attaching plate which is preferably disc-like as shown in Figure 3, but which may be of any selected shape. This attaching plate may be provided with a suitable number of perforations as 2 and it has a central upwardly converg-

ing opening 3 and there is an annular pad 4 formed of resilient material bonded to the attaching plate 1, the resilient material being molded through the perforations 2 for better anchorage as shown in Figures 1 and 3. The bottom surface of the pad 4 may be provided with annular grooves as 5 thus providing a better friction surface for contact with the ground.

In the form illustrated in Figure 1, there is an externally threaded shank 6 having a tapering head 7 adapted to be fitted into the opening 3. The shank 6 is adapted to be threaded into the internally threaded anchor 8 which is fitted downwardly through the bottom sole 9 of the shoe and the upper end of this anchor has an external annular disc-like plate 10 which fits against the upper side of the lower sole 9 and is secured thereto by the depending tangs 11 which penetrate into said sole as shown in Figures 1 and 2.

The shank 6 may be fitted through the central opening 12 of the pad and through the opening 3 of the plate 1 and then may be screwed into the anchor 8 with its tapering head 7 finally seating in the tapering opening 3. The head 7 has a cross-slot 13 to receive the blade of a screw-driver for screwing the shank home.

It is apparent that the shank may be readily unscrewed so that the pad may be easily removed for replacements.

In the form shown in Figure 2, the externally threaded shank 6a is permanently secured to the attaching plate 1a and the lower end of the shank 6a is provided with a polygonal socket 13a to receive a socket wrench for screwing the shank 6a home. In other respects the form shown in Figure 2 is the same as that illustrated in Figure 1. In the form illustrated in Figure 6, the attaching plate is indicated by the numeral 1b. It may have a central polygonal opening 3a which converges slightly downwardly. In this embodiment, there is an externally threaded shank 6b having a head 7a which is tapered to conform to the taper of the opening 3a and which is slightly larger than said opening as indicated in Figure 4 so that it must be driven into home position as shown in Figure 6. The pad 4 of this embodiment is the same as that shown in Figures 1 and 2 and is bonded to the attaching plate in a similar manner. The assembly may then be attached to the shoe by screwing the shank 6b into the anchor 8, the head of the shank being provided with the cross-slot 13 to receive the blade of a screw-driver for that purpose.

The upper side of the attaching plate may be made slightly concaved, if desired, so that it will

have a better gripping effect with the adjacent side of the sole 9, as shown in Figure 7. In the embodiment illustrated in Figure 7, this attaching plate is indicated by the numeral 1c. In this form the outwardly threaded shank 6c projects from the concave side of the plate and may be formed integrally therewith. On the opposite side of the plate there is the disc pad 4a formed of resilient material and bonded to the plate and molded through the perforations thereof. In this form the plate 1c is formed with marginal notches 14 to receive a wrench for screwing the assembly into place or unscrewing it.

After the pads may have been molded and bonded to the attaching plates and through the perforations thereof, it will be found that they are securely anchored to said plates and will not be liable to become detached therefrom under the stress of use.

Furthermore, on account of the resiliency of the pads, the inward pressure of the anchors against the foot of the wearer will be appreciably reduced thus adding to the comfort of the shoe and when the shoe is used on hard impenetrable surfaces, they will not be noisy or subject to slippage.

What I claim is:

1. An athletic shoe pad assembly comprising an attaching plate having perforations, a shank on one side of the plate adapted to be connected to a shoe sole anchor and a tubular resilient pad having walls of uniform thickness bonded to the other side only of said plate and molded through said perforations.

2. An athletic shoe pad assembly comprising an attaching plate, a detachable shank on one side of the plate adapted to be connected to a

shoe sole anchor and a tubular resilient pad bonded to the other side only of the plate.

3. An athletic shoe pad assembly comprising an attaching plate having perforations, a shank on one side thereof adapted to be connected to a shoe sole anchor to fix the plate to the shoe sole and a resilient pad bonded to the other side only of said plate and moulded through the perforations and having an outer friction face approximately parallel with the plate.

4. An athletic shoe pad assembly comprising an attaching plate having a plurality of perforations, an outwardly threaded shank on one side of the plate and detachable therefrom and an annular, resilient pad bonded to the other side only of the plate and molded through said perforations, the sole in direct contact therewith, to hold the pad against movement relative to the shoe sole.

5. An athletic shoe pad assembly comprising an attaching plate having perforations and a central opening, an outwardly threaded shank on one side of the plate having a head fitted into the opening and interlocked with the plate and a tubular resilient pad having walls of uniform thickness and bonded to the other side only of the plate and moulded through said perforations.

6. An athletic shoe pad assembly comprising an attaching plate having a plurality of perforations, a shank on one side of the plate adapted to be screwed into a shoe sole anchor to clamp one side of the plate in close contact with the shoe sole, a tubular resilient pad bonded to the other side only of the plate and moulded through said perforations.

TRACY S. PARK.