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J. T. RIDDELL

1,462,625

ATHLETIC SHOE

Filed May 5, 1922

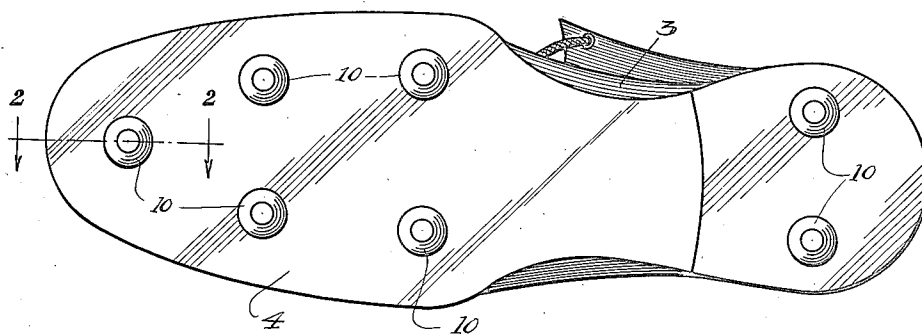


Fig. 1

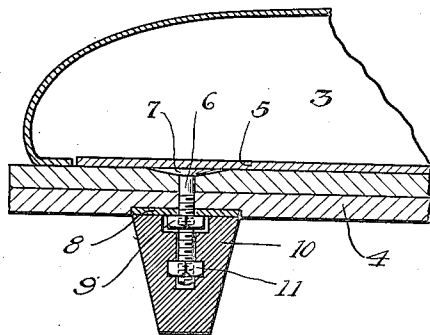


Fig. 2

Witnesses:

W. Schnellhardt

B. G. Richards

Inventor:

John T. Riddell

By Joshua R. H. G. H.

His Attorney

UNITED STATES PATENT OFFICE.

JOHN T. RIDDELL, OF EVANSTON, ILLINOIS.

ATHLETIC SHOE.

Application filed May 5, 1922. Serial No. 559,559.

To all whom it may concern:

Be it known that I, JOHN T. RIDDELL, a citizen of the United States, and a resident of the city of Evanston, county of Cook and State of Illinois, have invented certain new and useful Improvements in Athletic Shoes, of which the following is a specification.

My invention relates to improvements in athletic shoes, and has for its object the provision of an improved shoe of this character especially adapted for wear by football players and provided with simple and effective tread members in the nature of cleats to prevent slipping which are highly efficient in use, capable of renewal or substitution and incapable of inflicting injury on other players.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification, and in which,

Fig. 1, is a bottom plan view of a shoe embodying the invention, and

Fig. 2, is an enlarged section taken on line 2-2 of Fig. 1.

The preferred form of construction, as illustrated in the drawings, comprises a shoe 3 of any usual or desired construction and provided with the usual sole 4 and insole 5, as shown. The sole of the shoe is provided with a plurality of threaded studs 6, each provided with a relatively large flat beveled head 7 seating against the top or inner side of the sole 4 and covered with the insole 5, as shown. A relatively large flat metallic washer 8 is passed over stud 6 and held in place against the bottom of the sole 4 by means of a lock or binding nut 9, as shown. By this arrangement the stud 6 will be securely and permanently held in place and the sole of the shoe bound and clamped together and thus reinforced by the studs.

The arrangement is also such that each stud is in fact practically incorporated into the body of the shoe sole and undesirable back pressure on the foot of the wearer avoided.

Tread members 10 are detachably secured to the studs 6, as indicated. Each of these tread members is made of rubber of suitable composition so as to have sufficient strength and rigidity for the purpose but soft enough

to prevent injury to other players. Each tread member 10 has a threaded nut 11 entirely enclosed and imbedded therein and by means of which the same is detachably secured to its corresponding stud, as shown. The tread members 10 are in the form of truncated cones and are relatively small in horizontal area so that the same will act as spikes to penetrate and impress themselves in the ground to prevent slipping in any direction. By this arrangement a simple and effective tread member to prevent slipping is provided, which may be readily renewed when worn; likewise, if desired, different tread members of different sizes and heights may be readily substituted. The arrangement is such that the same may be readily applied by an inexperienced person; as, for instance, by the player himself. The back thrust on each tread member in use is absorbed by the corresponding washer 8 and transmitted by it to the sole of the shoe so that this back thrust is dispersed over a relatively large area and thus injury to the foot of the wearer prevented. By arranging the nut 9 in a recess in the base of the tread member a strong and durable connection is afforded and a wide bearing provided for each tread member to resist lateral strains or thrusts. It will be noted that the tread members are capable of considerable wear without exposing any of the metallic parts to injure other players.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination with a shoe, of a stud passing through and clamped to the sole of said shoe and projecting therefrom; a tread member; and a securing member enclosed and imbedded in said tread member and engaging said stud, substantially as described.

2. The combination with a shoe of a threaded stud passing through and clamped

to the sole of said shoe and projecting therefrom; a tread member; and a nut enclosed and imbedded in said tread member and detachably engaging said stud, substantially as described.

3. The combination with a shoe, of a threaded metallic stud passing through the sole thereof, said stud being provided with a relatively large head seating against the top side of the sole; a relatively large metallic washer passing over said stud and seating against the bottom of said sole; a nut threaded on said stud and seating against said washer; a rubber tread member; and a nut enclosed and imbedded in said member and detachably engaging said stud, substantially as described.

4. The combination with a shoe, of a threaded metallic stud passing through the sole thereof, said stud being provided with

a relatively large head seating against the top side of the sole; a relatively large metallic washer passing over said stud and seating against the bottom of said sole; a nut threaded on said stud and seating against said washer; a rubber tread member; and a nut enclosed and imbedded in said tread member and detachably engaging said stud; there being a recess at the inner end of said tread member fitting over said first mentioned nut, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN T. RIDDELL.

Witnesses:

JOSHUA R. H. POTTS,
FREDA C. APPLETON.