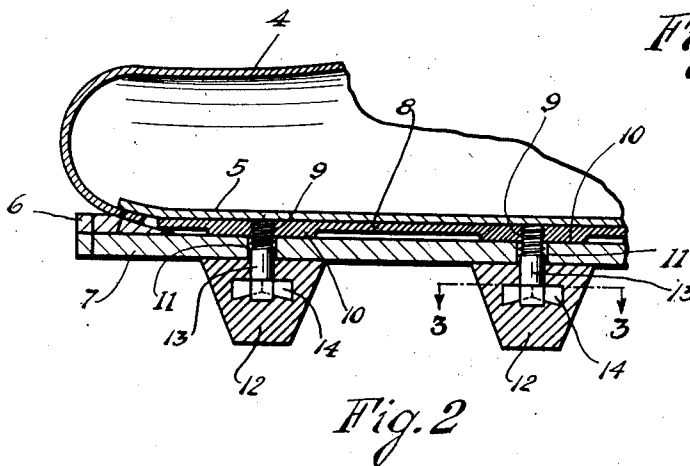
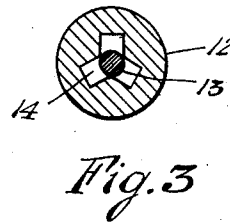
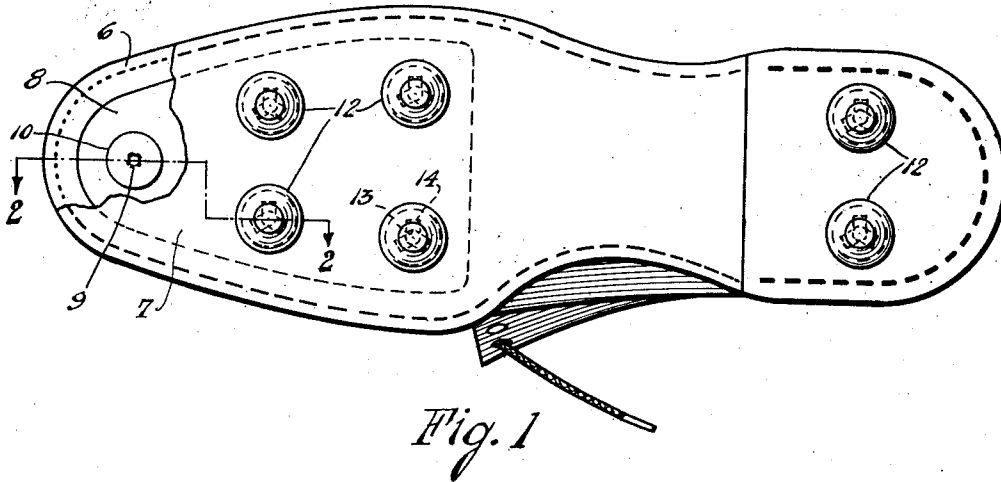


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J. T. RIDDELL
ATHLETIC SHOE
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1,602,453



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UNITED STATES PATENT OFFICE.

JOHN T. RIDDELL, OF EVANSTON, ILLINOIS.

ATHLETIC SHOE.

Application filed November 13, 1922. Serial No. 600,496.

This invention relates to athletic shoes and has for its object the provision of an improved shoe of this character especially adapted for wear by foot-ball players, such shoe being provided with substantially inflexible anchoring means disposed within the shoe, together with a plurality of exterior spaced tread members having extensions thereon adapted to be detachably secured to said anchoring means.

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, showing the invention applied thereto, a portion of the shoe being broken away to expose the interior arrangement thereof,

Fig. 2 is a section on the line 2—2 of Fig. 1; and

Fig. 3 is a sectional view on the line 3—3 of Fig. 2.

Referring to the drawings a shoe of any usual or desired construction is illustrated, in which 4 represents the vamp, 5 the insole, 6 the welt and 7 the outer sole of such shoe. Preferably disposed between the insole 5 and the sole 7 of the shoe is a relatively thin substantially inflexible plate 8, preferably of steel, such plate being provided with a plurality of spaced sockets in the form of apertures 9, each of which is preferably threaded, as shown, and reinforced by means of an extra thickness 10 of material; and the sole 7 is provided with openings 11 corresponding in position to the apertures 9. Adapted to be secured to the plate 8, are a plurality of tread members 12, each of which is provided with a stud or extension 13, having a divided head 14 embedded therein, and having its outer end threaded, such extensions being adapted to be threaded into the apertures 9 in the plate 8. Similar means may be utilized in connection with the heel of the shoe as will be readily understood. By this arrangement a

plurality of tread members are firmly and detachably connected to a substantially inflexible common anchorage, which construction prevents the tread members being forced out of alignment, and assures the position of the same in the most advantageous manner with respect to the foot of the wearer. Owing to the fact that the tread members are formed of rubber or other similar yielding material they tend to bind against the sole of the shoe without indenting the same. In this manner the sole of the shoe is reinforced by the tread members, the tread members securely held in place and the pressure on the tread members distributed over practically the entire sole of the shoe thus preventing injury to the foot of the wearer.

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 claim.

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

The combination with a shoe, of an anchoring member in the form of a metallic plate arranged entirely against the inner side of the sole of the shoe, said plate being provided with a plurality of threaded sockets; tread members positioned against the bottom of the shoe sole and formed of relatively soft material; and threaded studs having their heads embedded in and rigidly secured to said tread members with threaded stems projecting therefrom and through said sole and engaging the sockets in said plate, whereby the tread members are secured in place and the sole clamped between the anchoring member and tread members, substantially as described.

In testimony whereof I have signed my name to this specification.

JOHN T. RIDDELL.