June 16, 1931. E. A. RICHARDSON 1,810,577

CLEAT MOUNTING

Filed Jan. 15, 1930

Fig. 1.

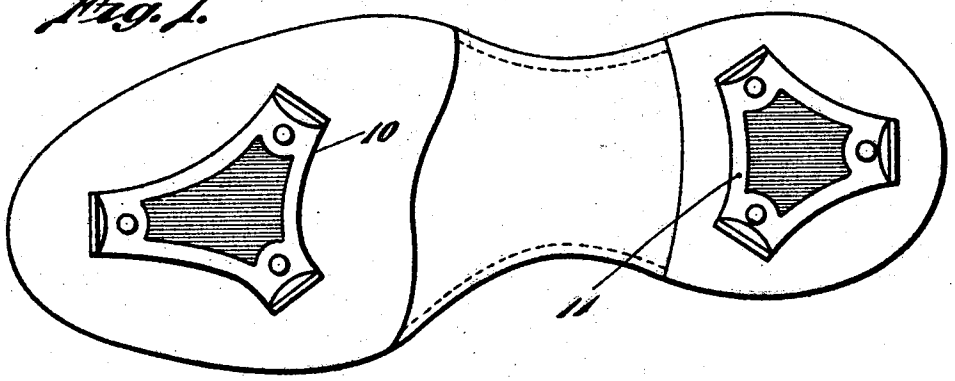


Fig. 2.

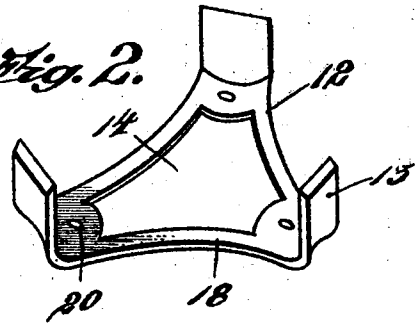


Fig. 3.

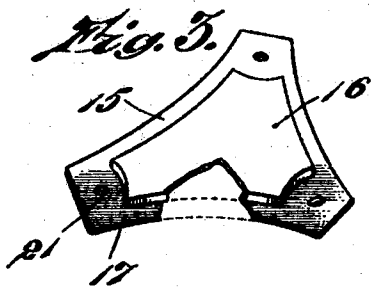


Fig. 4.

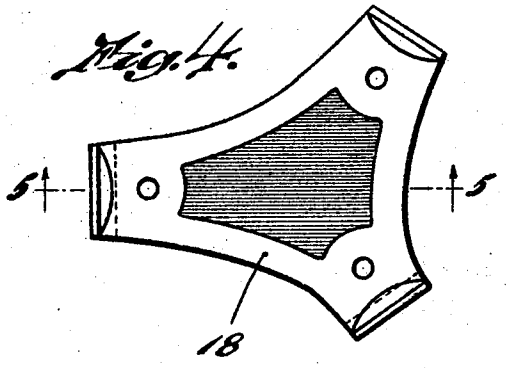
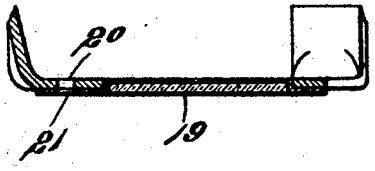


Fig. 5.



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UNITED STATES PATENT OFFICE

EDWARD A. RICHARDSON, OF WEST MANSFIELD, MASSACHUSETTS

CLEAT MOUNTING

Application filed January 15, 1930. Serial No. 420,916.

My present invention relates to sporting goods, and has particular reference to shoes for use in baseball and other sports.

One object of my invention is to provide a cleat for a shoe that is light and strong and that will minimize clinging of turf thereto.

Another object of my invention is to provide a cleat with a central opening to lighten the weight, and to position a light filler in this central opening.

A further object is to provide structure for locking the filler in place by securing the cleat in position.

With these and other objects and advantageous features in view, the invention consists of a novel arrangement of parts more fully disclosed in the detailed description following, in conjuncting with the accompanying drawings, and more particularly set forth in the appended claims.

In the drawings:

Fig. 1 is a bottom view of a baseball shoe, fitted with the novel cleat devices;

Fig. 2 is a perspective view of the cleat;

Fig. 3 is a perspective view of the light filler;

Fig. 4 is a plan view of the assembled cleat and filler; and

Fig. 5 is a section of the assembly on the line 5—5 of Figure 4.

It has been found desirable to reduce the weight of a cleat, while maintaining its strength and its rigidity, by removing the center portion of the cleat, thus leaving a central opening. Experience has shown, however, that there is a tendency to collect turf and dirt in the central opening, even though the edges of the opening are bevelled. I have therefore devised a filler for this opening, which is made of light sheet metal, and is securely locked in place when the cleat is fastened to a shoe, thus forming a composite cleat device which is strong, rigid, and light, which has but little tendency to collect turf or dirt, which is easily assembled, and which aids in preventing entrance of dirt, water, and the like, between the cleat and the shoe; and the following is a detailed description of a preferred constructional embodiment of my invention.

Referring to the drawings, the novel cleat device, which may be designed for the sole of the shoe, as 10, or the heel of the shoe, as 11, includes a cleat 12 having the usual sharpened prongs 13 and a central opening 14, and a cupped sheet metal filler 15 having an upstanding central portion 16 and a flange section 17, the upstanding central portion being designed to fit snugly into the central opening 14 and to align with the sides 18 of the cleat to form a substantially continuous surface.

The filler may be stamped or formed of suitable material, sheet metal being preferable; in certain constructions, where there is danger of denting or otherwise deforming the upstanding central portion, a light insert 19, such as compressed cork, may be positioned in the central portion.

As will be noted from Figure 5, the fastening holes 20 of the cleat and the fastening holes 21 of the filler are in alignment, whereby the fastening screws for securing the cleat to the shoe also lock the filler in position. If desired, however, the flange portion 17 may be recessed in the region of the holes 21 to eliminate these holes, as the snug fitting of the central portion of the filler in the central opening of the cleat, and the positioning of the flange portion below the sides 18 of the cleat, effectively lock the filler in place.

The combination of the cleat and filler therefor substantially eliminates all collecting of turf and dirt in the cleats, the positioning of the filler flange beneath the cleat sides also serves to prevent entry of dirt beneath the cleat sides, and in addition prevents water and dirt which seeps in between the sides of the central filler portion and the cleat sides from collecting underneath the cleat, the flange portion closely hugging the shoe.

While I have described one specific embodiment of my invention, it is obvious that various changes in form and in construction may be made, within the spirit and the scope of the invention as defined in the appended claims.

I claim:

1. In combination, a cleat for a sport shoe

having a central opening, and a cupped filler for said opening.

2. In combination, a cleat for a sport shoe having a central opening, and a cupped filler for said opening having an upper surface in the plane of the cleat sides.

3. In combination, a cleat for a sport shoe having an irregular shaped central opening, and a cupped filler having a flange portion and a central upstanding section shaped to fit into the central opening.

4. In combination, a cleat for a sport shoe having an irregular shaped central opening, and a cupped filler having a flange portion and a central upstanding section shaped to fit into the central opening, said cleat and said flange portion having aligned fastening openings.

5. In combination, a cleat for a sport shoe having an irregular shaped central opening, a cupped filler having a flange portion and a central upstanding section shaped to fit into the central opening, and an insert positioned in said central upstanding section.

In testimony whereof I affix my signature.

EDWARD A. RICHARDSON.