

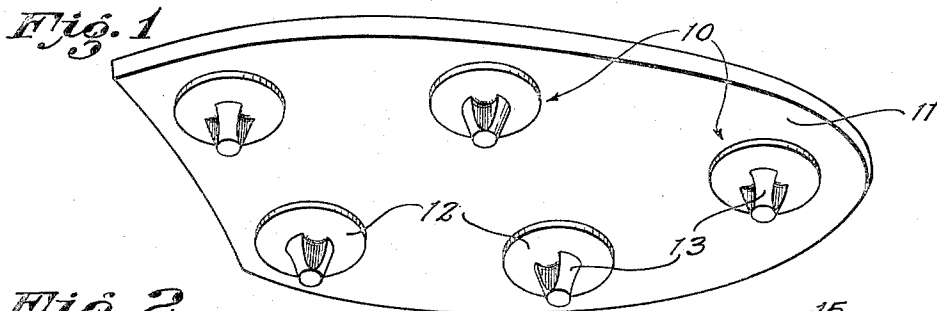
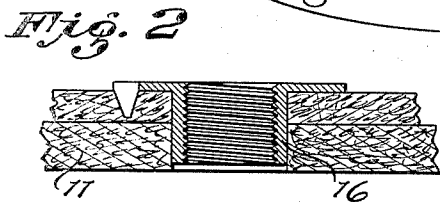
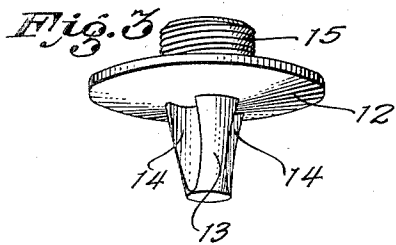
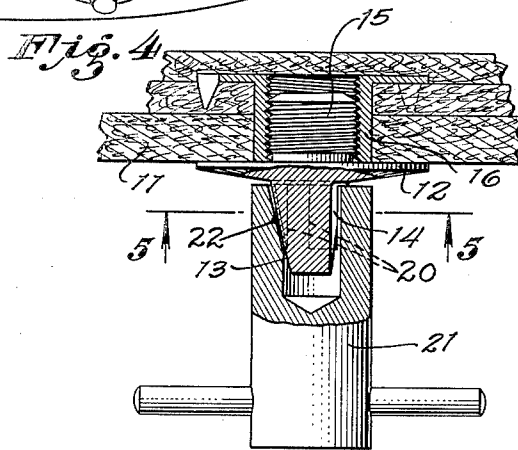
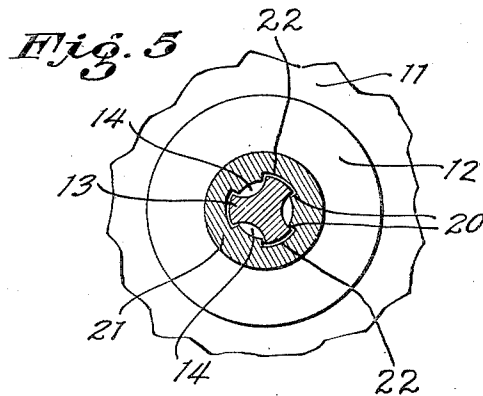
May 30, 1950

R. M. McCALLUM

**2,509,980**

SHOE CLEAT

Filed June 23, 1948



INVENTOR,  
ROBERT M. McCALLUM  
BY  
Robert M. McManigal  
ATTORNEY

## UNITED STATES PATENT OFFICE

2,509,980

## SHOE CLEAT

Robert M. McCallum, Inglewood, Calif.

Application June 23, 1948, Serial No. 34,614

2 Claims. (Cl. 36—62)

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My invention relates to cleats for golf shoes and the like.

The object of my invention is to provide a shoe cleat which may be easily and readily attached to or removed from a shoe even after the cleat has been subjected to considerable wear.

Another object of my invention is to provide a shoe cleat which may be easily and readily attached to or removed from a shoe without injury to the hands of the person attaching or removing the cleat.

Another object of my invention is to provide a shoe cleat in which the tapered portion is of such shape that it is adapted to be firmly and positively engaged over a substantial area by complementary surfaces of a suitable wrench, even after the cleat has been worn to a considerable extent.

The above and other objects and advantages will be apparent from the following specification taken in conjunction with the accompanying drawing, in which:

Fig. 1 is a perspective view of an underside of a golf shoe to which cleats embodying my invention are attached;

Fig. 2 is a transverse section through the sole of a shoe showing the means by which cleats of the type shown in Fig. 1 may be attached to a golf shoe;

Fig. 3 is a perspective view of the cleat of my invention;

Fig. 4 is a view similar to the view shown in Fig. 2 with the cleat of my invention in place and the inner sole of the shoe added, with the wrench used to attach or remove the cleat of my invention in operative position; and

Fig. 5 is a section taken along the line 5—5 of Fig. 4.

Referring to Fig. 1, cleats 10 embodying my invention are shown attached to sole 11 of the golf shoe (not shown).

The cleats 10 comprise a base portion 12, a tapered portion 13 provided with a plurality of flutes or channels 14, and means to attach the cleat to the shoe. As an instance of this arrangement, the cleat may be provided with a threaded stud portion 15 which is adapted to be received in a threaded tubular member 16 in the shoe soles as shown in Figs. 2 and 4.

The cleats 10 are preferably provided with three flutes or channels 14 in order to provide a cleat having the optimum of gripping surfaces without removing too much material from the tapered portion of the cleat. The flutes or channels 14 are preferably substantially parallel to the axis of the cleat.

As shown in Figs. 4 and 5, this construction of the tapered portion 13 of the cleat provides

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surfaces of such shape as to be firmly and positively engaged over a substantial area by side walls 20 of the channels 22 of a suitable tool 21 which is adapted to be used in attaching or removing the cleat from the shoe, even after the cleat 10 has been worn to a considerable extent.

From the foregoing description taken in connection with the accompanying drawings, the construction and advantages of the cleat of my invention will be readily understood by those skilled in the art to which the invention appertains. While I have described the form of my invention which I now consider to be the best embodiment thereof, I desire to have it understood that the cleat shown is merely illustrative and that the invention is not to be limited to the details disclosed herein, but is to be accorded the full scope of the appended claims.

## I claim:

1. A cleat for golf shoes comprising a base portion, a generally conical stud portion, and a plurality of arcuate channels in the tapering surface of said stud portion with the axes of said channels being substantially parallel to the longitudinal axis of said stud portion, the walls of said channels cooperating with the outer surface of said stud portion to form sharp shoulders, and said channels extending along substantially the full length of the tapering surface of said stud portion.

2. A cleat for golf shoes comprising a base portion, a generally conical stud portion having its base adjacent said base portion, and a plurality of concave channels in the tapering surface of said stud portion with the axes of said channels being substantially parallel to the longitudinal axis of said stud portion so that said channels are deepest at the base of said stud portion, the walls of said channels cooperating with the outer surface of said stud portion to form sharp shoulders at their intersections, and said channels extending along substantially the full length of the tapering surface of said stud portion.

ROBERT M. McCALLUM.

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