R. Hutchison,

Ice Creeper,

No. 68,881, Patented Sept. 17, 1867.

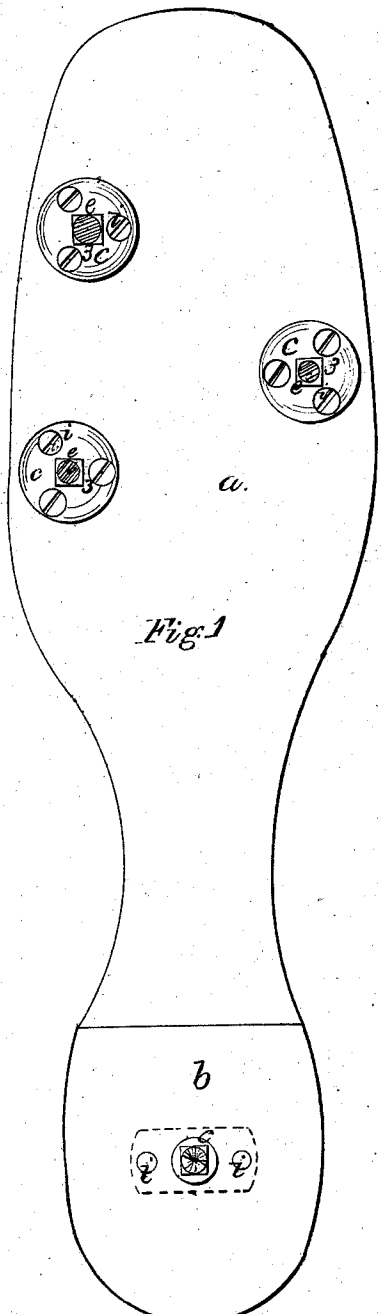


Fig. 1

Fig. 2.

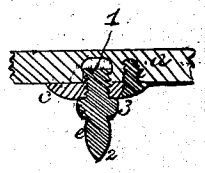


Fig. 3.

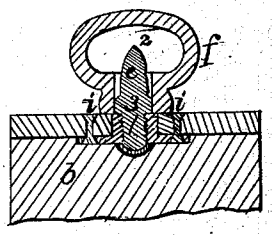
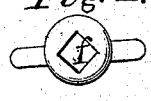


Fig. 4.



Witnesses

Chas. H. Smith

Geo. D. Wacker.

Inventor.

Robert Hutchison

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

United States Patent Office.

ROBERT HUTCHISON, OF NEWARK, NEW JERSEY.

Letters Patent No. 68,881, *dated September* 17, 1867.

IMPROVED SHOE-SPIKE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ROBERT HUTCHISON, of Newark, in the county of Essex, and State of New Jersey, have invented, made, and applied to use a certain new and useful Improvement in Shoe-Spikes for ball-players and others; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is an inverted plan of a shoe-sole with my spikes fitted into it.

Figure 2 is a section of one of said spikes; and

Figure 3 is a section of a slight variation in said spike.

Similar marks of reference denote the same parts.

The object of my invention is to prevent ball-players slipping upon the grass or earth where the game is usually played, by a peculiarly constructed spike, screwed into a metal socket let into the sole of the shoe, and which spike may be removed with facility, so as not to inconvenience the wearer in walking to or returning from the ball-grounds. This improvement may also be employed to prevent slipping on ice.

My invention consists in a screw-spike, having a polygonal base to the spike portion, so as to give a sufficient bearing upon the surface of the socket into which it is screwed, to prevent the spike being easily bent over or broken; and said polygonal base also receives the key, by means of which the spike is unscrewed and removed, or again screwed into the metal socket that is employed for its reception in the sole or heel of the shoe.

In the drawing, *a* represents the sole, and *b* the heel portion of the boot or shoe; *c* is a metal socket, secured upon the surface of the sole by the screws or rivets *i i*. This socket may be let into the leather or introduced between the lamina of leather, in either the form shown in fig. 2 or in fig. 3. The spike *e* is formed with a screw portion, 1, to fit the socket *c*, a point, 2, at the other end, and a polygonal base, 3, to the spike point 2, between the screw and spike portions. This polygonal base gives firmness to the spike, and allows for the use of a key, *f*, shown in fig. 3, as applied to the spike for screwing or unscrewing the same. This key *f* is shown separately in Figure 4, and it will be seen to be of a compact and strong form, adapted to being carried easily in the pocket.

What I claim, and desire to secure by Letters Patent, is—

A screw-spike formed with a point, 2, a screw portion, 1, and a polygonal base, 3, for the reception of the key *f*, in combination with the metallic socket, secured to the sole of the boot or shoe, as and for the purposes set forth.

In witness whereof I have hereunto set my signature this eleventh day of April, A. D. 1867.

ROBERT HUTCHISON.

Witnesses:

CHAS. H. SMITH,

GEO. D. WALKER.