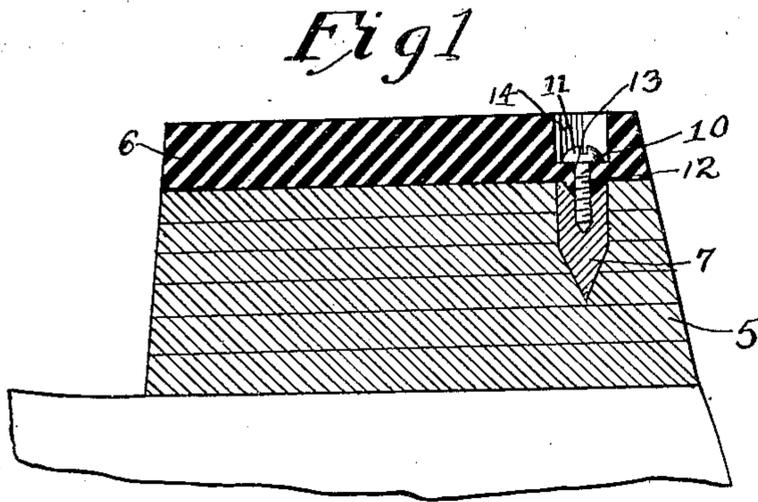


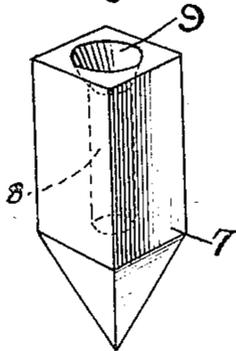
I. VULPESCU.  
 MEANS FOR FASTENING RUBBER HEELS.  
 APPLICATION FILED JAN. 14, 1910.

979,361.

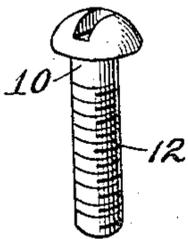
Patented Dec. 20, 1910.



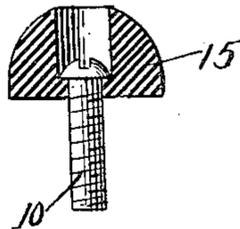
*Fig 2*



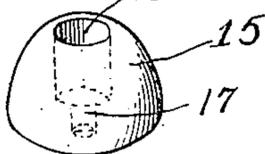
*Fig 3*



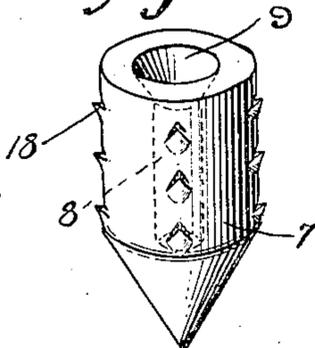
*Fig 4*



*Fig 5*



*Fig 6*



Witnesses  
 Wm S. McHowell.  
 John A. Douglas.

Inventor  
 Ior Vulpescu  
 By Victor J. Evans  
 Attorney

# UNITED STATES PATENT OFFICE.

IOV VULPESCU, OF DETROIT, MICHIGAN.

MEANS FOR FASTENING RUBBER HEELS.

979,361.

Specification of Letters Patent. Patented Dec. 20, 1910.

Application filed January 14, 1910. Serial No. 538,117.

To all whom it may concern:

Be it known that I, IOV VULPESCU, a subject of the Emperor of Austria-Hungary, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Means for Fastening Rubber Heels, of which the following is a specification.

This invention relates to improvements in means for fastening rubber heels to a shoe and has for one of its objects the provision of a device of that kind which may be employed to fasten most forms of rubber heels now in use.

Another object is the provision of a cushion which may be readily applied to the heel of a shoe and when so applied may be turned to any position after the wear on one part of the cushion has been greater than the wear on another part, whereby uniform wear will be produced upon the cushion throughout its use.

With these and other objects in view, which will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings and more particularly pointed out in the appended claim; it being understood that various changes in the form, proportion, size, and minor details of the device may be made, within the scope of the appended claim, without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, forming a part of the specification;—Figure 1 is a vertical section taken through a heel of a shoe and rubber cushion applied thereto and also showing the device in vertical section and securing the cushion to the heel. Fig. 2 is a detail perspective of the female member or spike. Fig. 3 is a similar view of the male or clamping member. Fig. 4 is a vertical section of an improved form of cushion to be employed with my device. Fig. 5 is a detail perspective of the same. Fig. 6 is a modified form of the female member or spike.

Similar numerals of reference are employed to designate corresponding parts throughout.

The heel of the shoe is designated by the numeral 5 and the rubber heel or cushion by the numeral 6. Since these parts are of well

known construction a detail description of the same need not be given.

The device forming one of the subjects of the present invention is shown to consist of what will subsequently be termed a female member or spike designated by the numeral 7. This member terminates at one end in a sharpened point thus affording a construction which may be driven into an ordinary heel. The spike or female member is non-cylindrical in cross section and extending inwardly from the end opposite to the sharpened point is an interiorly threaded bore 8, the inner end of which terminates at a point between the middle and pointed end of the female member or spike. The outer end of the bore is flared as shown at 9. The function of this construction will be described later.

What will subsequently be termed a male member or clamping screw is designated by the numeral 10 and at one end is provided with an enlarged head 11 said head being provided with a transverse recess for the reception of a suitable implement by means of which the threaded shank 12 may be screwed into the threaded bore 8 of the female member or spike.

It is well known that the usual rubber heel is constructed with a transverse opening such as shown at 13 in Fig. 1, this opening extending from the inner face of the heel and terminating in a counterbore or opening 14. In the application of my device to an ordinary rubber heel the female member or spike is first driven into the heel 5, at the desired point, after which the male member or clamping screw 12 is insertible through the counterbore 14 and through the opening 13 until its threaded shank enters the bore 8 after which the clamping screw is turned until its head 11 bears upon the lower end of the counter opening. When the parts are so positioned by further turning the clamping screw the rubber overlying the flared end of the bore 8 will be forced into the said flared end, whereby lateral movement of the rubber heel will be positively prevented during use.

By reference now to Figs. 4 and 5 it will be seen that I provide a form of cushion designated by the numeral 15. It will be seen that when applied to an ordinary shoe heel that a plurality of these cushions will be necessary in order to give an even bearing surface for the heel. The cushions are

preferably of rubber or analogous material and substantially hemispherical in contour. Each cushion is provided with a central opening 16 extending inwardly from its flat surface and terminating in a counter-bore or opening 17. The openings 16 and 17 receive the male member or clamping screw, the latter entering the female member or spike in the manner before described. With the provision of the cushion just described it will be evident that when one side of the same wears in advance of the opposite side that by loosening the screw 10 the said cushion may be turned to bring the unworn side into a position to be borne upon, whereby uniform wear can be produced upon the cushion throughout its use.

In the modified form shown in Fig. 6 the female member or spike is provided on its outer surface with a plurality of up-struck portions 18 which constitute teeth, the latter, when the spike is driven into the heel of the shoe, embedding themselves into the leather and preventing accidental displacement of the said female member.

From the foregoing description it can be

seen that I have provided a device which is comparatively simple in structure and inexpensive in manufacture, embodying few parts and these so arranged that the danger of derangement will be reduced to a minimum.

I claim:—

A fastening device of the character described comprising a female member having a cone-shaped end, and a barbed outer surface, and further having an axial threaded opening flared at its outer end, and a male member having a threaded shank to be screwed into the opening of the female member, said male member further having at one end of the shank an enlarged head cooperating with the flared end of the opening of the female member for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

IOV VULPESCU.

Witnesses:

SACKE REVEANO,  
H. BAULINE.