

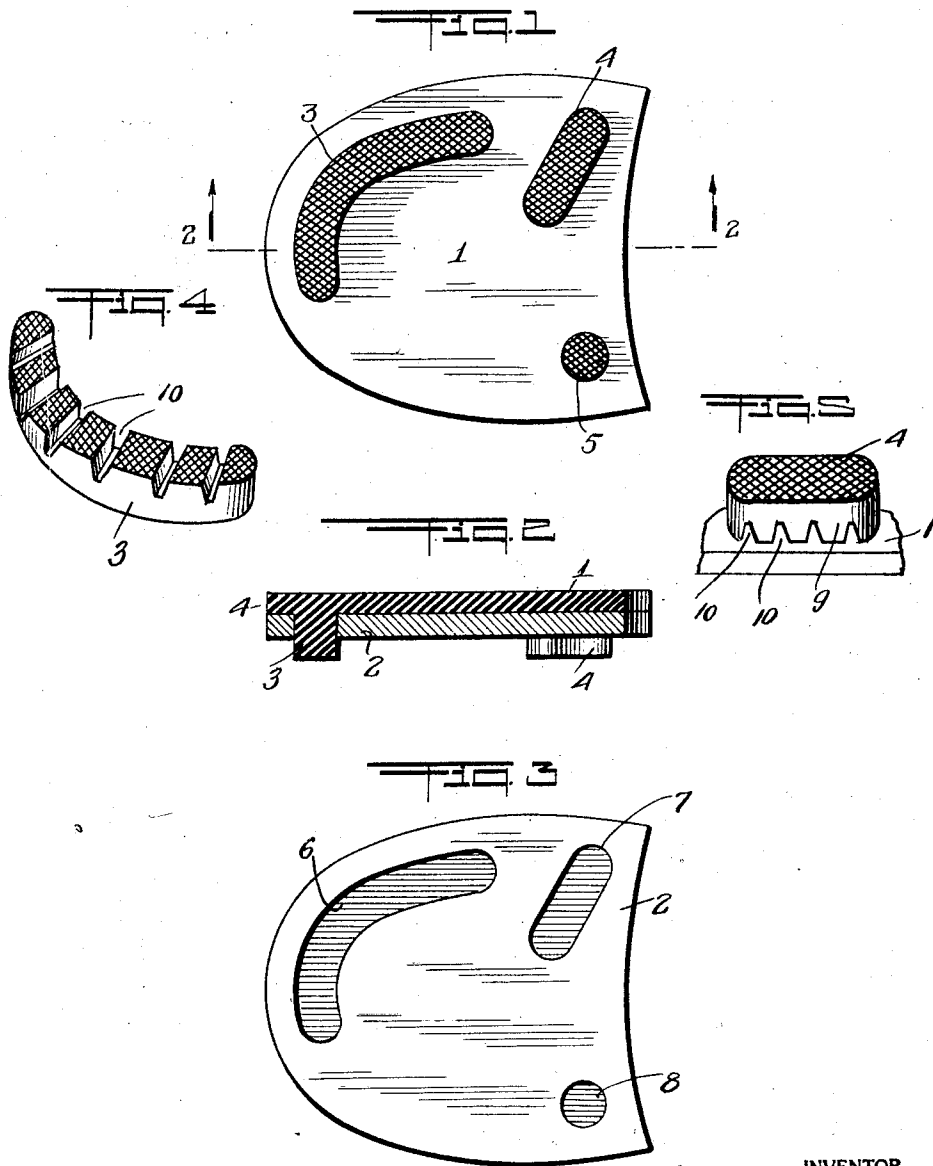
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HEEL FOR SHOES

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# UNITED STATES PATENT OFFICE.

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## HEEL FOR SHOES.

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The object of the present invention is to provide a heel for boots and shoes composed of a rubber unit and a leather unit so constructed as to maintain the shape of the shoe.

A further object is to provide means whereby a cushion heel may be constructed with a minimum weight and without the use of metal washers as hereto employed.

The invention will be understood by reference to the accompanying drawing in which—

Figure 1 is a bottom plan view of the improved cushion heel;

Figure 2 is a longitudinal section on the line 2—2, Figure 1, and

Figure 3 is a top plan view of the leather unit;

Figure 4 is a perspective view of the curved projection separated from the main body of the heel;

Figure 5 is a bottom perspective view of a section of member 1 showing the formation of projection 4.

By reference to Figure 2 of the drawing, it will be seen that the heel comprises an elastic or resilient upper member 1 which preferably is made of molded rubber, and a lower member 2 which is substantially greater in rigidity than the upper member and it is preferably constructed of leather.

The upper member is provided with a curved projection 3, a straight projection 4 and a round projection 5, each of which is preferably checked, ribbed or channeled to provide an anti-slip surface. The lower member 2 is provided with a curved aperture 6, a straight aperture 7 and a round aperture 8 so as to receive the projections of the upper member, which projections are preferably greater in depth than the thickness of said lower member 2, so that when the two members are assembled, projections 3, 4 and 5 lie substantially below the exposed face of said lower member 2.

Inasmuch as member 2 is of substantially rigid material, it will hold the upper member in position when tacked through said upper member to the heel lifts, because the tacks will not pull through or split the said lower member owing to the nature of its material. Thus the use of washers in the cushion heel at the points at which the fas-

tening tacks are applied is rendered unnecessary in the improved heel.

The provision of a substantially curved projected area at the portion of the heel where the greatest wear occurs and where the heel is initially applied to the ground by the wearer in walking, while placing the other projections only at points where the minor pressures upon the heel occur, enables us to afford adequate bearing surfaces in the cushion heel structure while maintaining its lightness and enhancing its non-slip character.

If desired, the member 2 of the heel may be composed of leather, vulcanized fibre or a composition of fibre and rubber, although we have found that the leather is entirely satisfactory for the purpose.

The member 2 has a further function in maintaining the projections 3, 4 and 5 against lateral deflection in the use of the heel. When the projections are worn down to the surface of the leather or other substantially rigid member 2, they will still continue to function and will resist wear upon the said leather or other rigid member, so that the life of the heel will be very long.

A further utility in the use of the leather member 2 is that it improves the appearance of the heel as a whole and maintains the margins of the rubber member closely applied to the heel lifts of the shoe without the necessity of employing cement or concave-convex formation for the rubber member.

The projections 3 and 4 may be joined to the main body of the member 1 by the spaced legs 9 separated from each other by the cut-away portions 10. These legs are held between the walls of the leather member 2. In this manner pressure upon the said projections will enable a greater cushioning action of the projections, and at the same time they are held against lateral movement by the member 2.

Having described our invention what we claim and desire to secure by Letters Patent is as follows:—

A cushion heel comprising an upper member of rubber, having a plane surface and a plurality of projections extending from one of its faces, two of said projections being

toward the front and a curved projection being toward the rear of said member, and one or more of said projections being joined to said upper member by spaced legs, and a  
5 second member composed of leather and substantially rigid in form, said leather member having openings corresponding with the pro-

jections of the rubber member and being of less thickness than the depth of said projections. 10

In testimony whereof, we have signed our names to this specification.

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