

H. FENTON.
 HEEL OF BOOTS AND THE LIKE.
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980,085.

Patented Dec. 27, 1910.

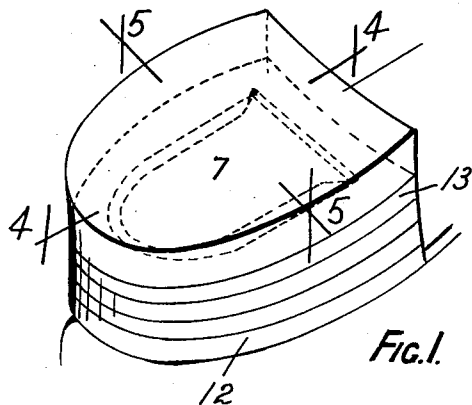


Fig. 1.

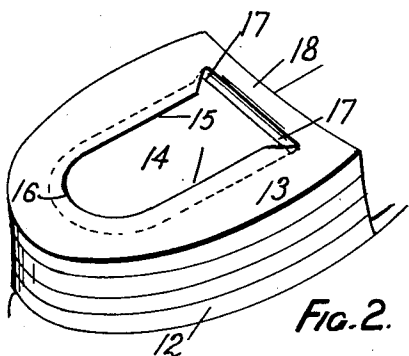


Fig. 2.

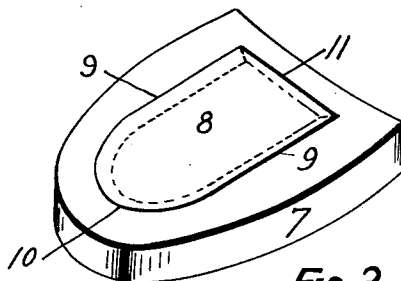


Fig. 3.

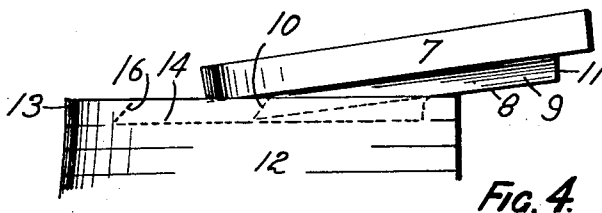


Fig. 4.

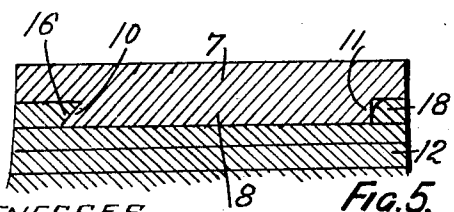


Fig. 5.

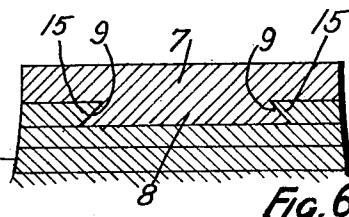


Fig. 6.

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HEEL OF BOOTS AND THE LIKE.

980,085.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY FENTON, a subject of the King of Great Britain, residing at No. 6 James' avenue, Glebe Point, near Sydney, in the State of New South Wales and Commonwealth of Australia, salesman, have invented new and useful Improvements in Heels of Boots and the Like, of which the following is a specification.

The invention relates to heels of boots and the like and has been specially devised in order to provide means whereby a detachable wearing or cushion tread or lift may be quickly and easily placed on or removed from the heel and which when placed in position will remain there under ordinary or normal conditions without the aid of fastening screws-nails or adhesive material.

These improvements in heels of boots and the like comprise a recess in the underface of the heel having inwardly chamfered or undercut parallel edges forming a slide with both ends stopped and one of these stopped ends adapted to permit easy entry of a filling piece. This entry end is preferably cut rectangular across the slide, is cut away at the corners and is chamfered or beveled outwardly to form an entrance while the other end is inwardly chamfered or undercut. The filling piece is a projection or tenon on the detachable tread or lift complementary or correspondingly shaped to this recess in the heel. This projection or tenon has also undercut edges forming a groove and at the end opposite the entry end has a rectangularly stepped edge forming a stop. The tenon on the detachable tread or lift is slid into the recess on the heel its stop end being sprung into position and it cannot be removed until its stop end is sprung outwardly and rearwardly to enable the step to clear the flared and chamfered stop end of the recess.

The projection or tenon may be molded or formed on the tread or lift either of the same material as the latter or of any other suitable material or be a separate piece of suitable material embedded in said tread or lift or attached thereto in the course of manufacture while the recess in the heel may be conveniently formed by nailing on a lift or lifts suitably cut to form the slide or using the lowermost lifts with cuts therein to form said slide.

The drawings accompanying and forming part of this complete specification illustrate

the most practical method now known of carrying this invention into effect.

Figure 1 shows in perspective the heel of a boot to which a cushion heel is affixed. Figure 2 shows the same heel with the cushion withdrawn therefrom and Fig. 3 shows said cushion inverted. Fig. 4 shows the cushion being inserted or withdrawn from the heel while Figs. 5 and 6 are cross sections of the heel on the planes 4—4 and 5—5 respectively on Fig. 1.

The cushion 7 which is preferably made of somewhat soft or rather resilient india rubber is an extra lift for the heel and it has centrally on it a flat projection or tenon 8 rounded at the rear. This projection 8 may be integral with and of the same material as the cushion lift but preferably and as shown it is made of harder rubber affixed by vulcanizing or otherwise to the lift part. It is essential that the projection 8 has undercut edges 9 parallel except at the front and back and forming a V-slide or said edges may have any other shaped undercut or slide or groove. The back edge 10 of this projection is preferably semicircular and is also undercut while the front edge 11 is rectangular to its flat surfaces. The heel 12 of the boot has its bottom lift 13 made with a mortise slot or recess 14 of complementary or corresponding shape to that of the projection 8 and its side and back edges are correspondingly undercut as a groove or slide as at 15 so that the edge 9 of the projection 8 when entered will firmly slide in said mortise or slot 14 and its back 10 slide under the edge 16. The side walls of the slot are carried away at the front edges as shown at 17 and it has a slightly chamfered edge at 18 to facilitate the entry of the projection 8 into the undercut grooves 15. Instead of the bottom lift 13 being recessed an extra lift having the requisite recess 14 with the cushion 7 positioned therein may be supplied so that anyone may conveniently nail or attach said extra lift to the heel of the boot. And said extra lifts may be changed from one pair of heels to another on the boots wearing out. Both the bottom lifts 13 of the heels and the extra lifts may be re-supplied as often as may be necessary or desirable with new or renewed cushions 7 and likewise the cushions 7 may be removed from one heel to another say from a right boot to a left boot to compensate for side edge wear.

In use, as is clear from the above description the cushion 7 having its back end sprung down into the flared entry of the recess 14 may be slid on the heel 12 the projection or tenon 8 on the cushion catching in said recess 14 and being firmly held therein by the step 11 contacting against the front stop 18.

Though not so practical nor yet so convenient it should not be overlooked that the converse arrangement of recess and projection might be used, that is to say, the cushion might be recessed and the heel face formed with a tenon and the same firm attachment effected. Instead of having a rounded rear the tenon and the recess might at said rear be square or angular or otherwise shaped as likewise the front might be. The recess and the tenons might be positioned longitudinally transversely or diagonally in relation to the center line of the heel and further they might be duplicated parallel with one another on both heel and tread.

Having now particularly described and

ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is;—

A heel for boots and shoes comprising two parts one of which is secured to the boot or shoe and the other of which is separable therefrom, one of said parts being provided with a recess therein having undercut side walls, and end walls one of which is undercut and the other straight, a tenon formed integral with the other part and projecting therefrom having its sides and one of its ends undercut, with its other end straight, said tenon being of a shape and size to fit the recess, and the side walls of the recess being flared off adjacent the straight end wall to permit the entrance of the tenon into the recess.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY FENTON.

Witnesses:

PERCY NEWELL,
C. N. J. CANDRICK.