No. 833,078. PATENTED OCT. 9, 1906.

H. B. MORRISON.

HEEL OF BOOTS AND SHOES.

APPLICATION FILED MAY 16, 1905.

Fig: 1

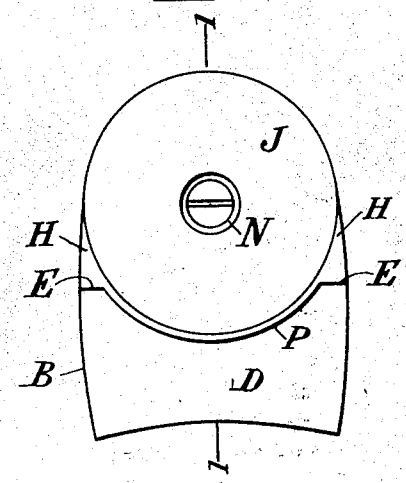


Fig: 2

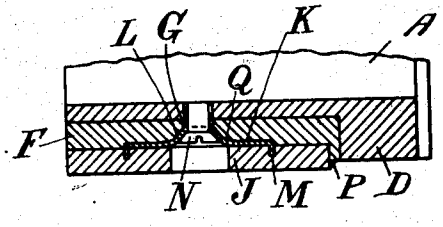


Fig: 3

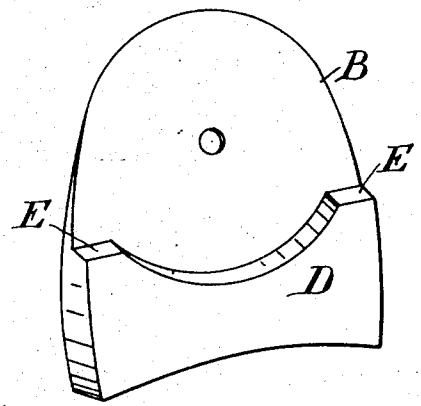


Fig: 5

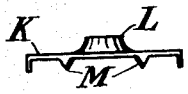


Fig: 6

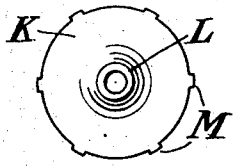
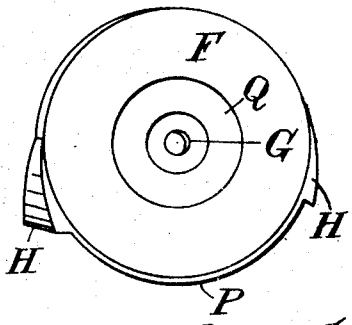


Fig: 4



Witnesses:

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HENRY BEATSON MORRISON, OF NEWTOWN, NEAR SYDNEY, NEW SOUTH WALES, AUSTRALIA.

HEEL OF BOOTS AND SHOES.

No. 833,078. Specification of Letters Patent. Patented Oct. 9, 1906.

Application filed May 16, 1905. Serial No. 260,691.

To all whom it may concern:

Be it known that I, HENRY BEATSON MORRISON, bootmaker, a subject of the King of Great Britain, residing at No. 44 Holmwood street, Newtown, near Sydney, in the State of New South Wales and Commonwealth of Australia, have invented certain new and useful Improvements in the Heels of Boots and Shoes, of which the following is a specification.

This invention relates to the construction of heels of boots and shoes, and has been devised with the object of reducing concussion to the wearer and at the same time prevent slipping (which plain rubber heels have a tendency to cause) and of providing a more durable wearing-surface.

The invention consists, essentially, of the combination of a stationary bed-plate of leather, wood, or compressed paper, hide, or a combination of same cut away toward the sides and rear to receive a rubber cushion and a revoluble circular plate of leather, hide, compressed paper, wood, or metal, or these materials combined, which last-mentioned plate forms the main wearing-surface.

Referring to the accompanying drawings, Figure 1 is a plan illustrating my improvements. Fig. 2 is a section through the line 1 1, Fig. 1. Fig. 3 is a view in perspective of the bed-plate, and Fig. 4 a similar view of the rubber cushion. Figs. 5 and 6 are details illustrating the metal plate of the revoluble wearing-plate.

The following letters refer to like parts in the drawings:

A is the heel of a boot or shoe.

B is the stationary leather, paper, hide, or wooden bed-plate, which when made of leather or hide consists of a lift the shape of the heel, upon which lift is built or secured toward the breast one or more pieces D. A piece D is preferably formed from lifts the shape of the heel by cutting out an approximately circular portion running out at the sides and rear, and the wings of the remaining portion are truncated to form shoulders E, the whole making a bed-plate, as clearly shown in Fig. 3.

F is a rubber cushion approximately circular, having a central hole G, which may be of any suitable size, said cushion fitting into the cut-away portion of the bed-plate B. On the sides of the cushion F are formed or cast lugs H and a raised semicircular edge P. The said lugs abut against the shoulders E of the bed-plate and keep the cushion stationary. They also give a neat finish to the heel and are more durable than leather. A shallow central recess Q is also provided in the cushion to receive the metal plate, as hereinafter explained.

J is a revoluble surface-wearing leather or other plate, having the metal plate K, on which are stamped or cast the boss L and spikes M for securing the plates J and K together.

N is a countersunk central screw-hole in the plate J, the holding-screw of which is about three-fourths the diameter of the said hole, the object being to allow the revoluble wearing-plate to spring with the rubber, according to the pressure exerted by the wearer. When the cushion and wearing-plate are secured in position, the latter projects slightly above the breast of the bed-plate.

The rubber cushion may take the form of a ring with lugs, or it may be extended through to the breast of the heel or perforated in any suitable design with the view to securing a maximum of lightness and elasticity with a minimum of rubber.

The metal plate K may be of various sizes and may be round or in the form of a cross, square, or star, or diamond shaped, the recess in the wearing-plate being made to correspond. In the case of light wearing-plates the metal plates or disk may be fitted from the surface side.

Where I have specified "leather," I would have it understood that I include by such term any composition which may be used in substitution therefor, but excluding rubber.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a heel for boots and shoes, the combination of a bed-plate, a circular revoluble wearing-plate, and a stationary elastic cushion interposed between the aforesaid members, the said wearing-plate being mounted thereon and extending outwardly beyond the tread-surface of the heel, a tubular shank secured thereto, and a fastening means securing said metal plate, cushion, and bed-plate to the heel.

2. In a heel for boots and shoes, the combination of a bed-plate, a stationary elastic

cushion, a circular revoluble wearing-plate having secured thereto a metal plate with a tubular member projecting intermediately therefrom and extending from said wearing-plate into the elastic cushion, and a fastening means for securing said metal plate, cushion and bed-plate to the heel.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

HENRY BEATSON MORRISON.

Witnesses:
CHARLES EDWARD GRAHAM,
HENRY WATCHORNE CLARKE.