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C. F. HAMEL & W. G. VOLLMEYER.

HEEL FOR BOOTS OR SHOES.

APPLICATION FILED AUG. 24, 1907.

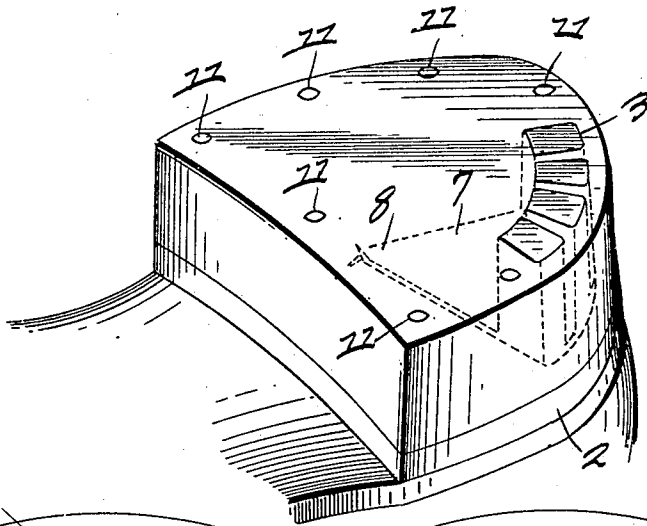


Fig. 1.

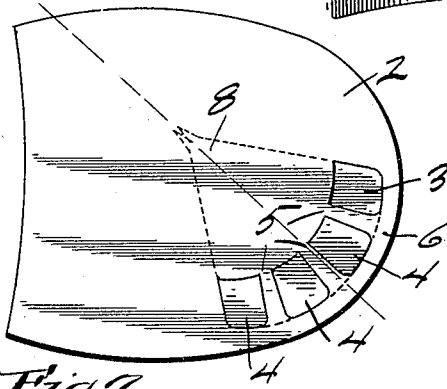


Fig. 2.

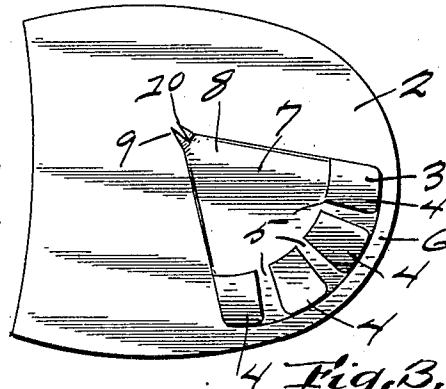


Fig. 3.

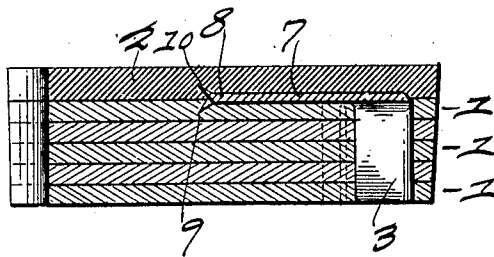


Fig. 4.

Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES F. HAMEL AND WILLIAM G. VOLLMAYER, OF TOLEDO, OHIO.

HEEL FOR BOOTS OR SHOES.

No. 881,921.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed August 24, 1907. Serial No. 389,949.

To all whom it may concern:

Be it known that we, CHARLES F. HAMEL and WILLIAM G. VOLLMAYER, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Heels for Boots or Shoes; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

This invention relates to improvements in heels for boots or shoes and it has for its object to provide a heel at the point of greatest wear with a rigid metal striking portion which shall be held absolutely from becoming loose or disengaged.

A particular object of the invention is to provide a heel with a metal contacting or striking portion which extends vertically through the heel lifts adjacent to the rear margin of the heel, with means for firmly bracing the striking portion to hold the same from breaking through the heel.

A further object is to cushion the shock resulting from contact of the metal striking portion with a hard floor or pavement.

A further object is to provide a shoe or boot heel with a durable striking portion which shall in no way detract from the neat appearance of the shoe or boot on which it is applied.

With the foregoing objects in view the invention is constructed, and it embodies the novel combination, arrangement and the details of construction hereinafter shown, described and claimed.

In the accompanying drawings which form part of this specification, Figure 1 is a perspective view of a boot or shoe heel with our invention embodied therein; Fig. 2 is a bottom face view of the heel detached; Fig. 3 is a like view showing the leather lifts removed and showing the metal striking portion with its expanded head in position upon the cushioned lift. Fig. 4 is a vertical section through the heel.

Referring to the drawings, the heel comprises a plurality of leather lifts 1, 1, 1, and an upper lift 2 of rubber or like cushioning material. Extending vertically through the leather lifts adjacent to their rear margins is a metal striking portion 3 which is preferably divided into segments 4, the leather lifts be-

ing punched out to receive the segments, there being integral connecting portions 5 of leather between the segments by which the narrow portions of the lifts to the rear of the striking portion, are held from breaking away as the heel is worn.

Integral with the striking portion 3 and extending directly inward in a plane at a right angle from its upper end is a flat expanded head 7 disposed between the two uppermost lifts, that is, between the uppermost leather lift and the rubber or cushioned lift, the extremity of the expanded head being approximately at the center of the heel. The head 7 is thus firmly positioned between the two uppermost lifts and the striking portion owing to its angular position relative to the head is effectively braced and held from breaking through the rear of the heel. To provide additional securing means by which the head 7 is more firmly held in position between the lifts and to eliminate the tendency to creep, there are oppositely deflected points 9 and 10 at the extremity 8 which enter and firmly engage the lifts between which the head is held. To eliminate the shock resulting from repeated contact of the metal striking portion in walking upon a hard pavement, the upper cushioned lift is provided, the shock upon the striking portion being absorbed by the elastic cushion with which it contacts directly, and by providing a broad expanded head for the striking portion the shock is distributed over a large area of the cushion.

The heel is shown complete in Fig. 2 and is adapted to be constructed as an article of manufacture for attachment to either old shoes or to new ones while being manufactured. Where the heel is attached to old shoes the same is secured by means of nails 11, as shown in Fig. 1, the portion of the heel containing the striking portion being free from nails to insure maximum elasticity.

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

In a heel, a plurality of superimposed leather lifts and an upper elastic lift thereon, a metal member having a striking portion disposed in a vertical direction through the leather lifts adjacent to their rear margins, and a flat, expanded, integral portion constituting a head for the striking portion, the head extending inwardly from the striking portion and taking a position between the

upper leather lift and the elastic lift with its inner extremity approximately at the center of the heel, and oppositely deflected points at the inner extremity of the head adapted to enter and engage the lifts in contact with the head, substantially as described.

In testimony, that we claim the foregoing

as our own we affix our signatures, in presence of two witnesses.

CHARLES F. HAMEL.

WILLIAM G. VOLLMAYER.

Witnesses:

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