

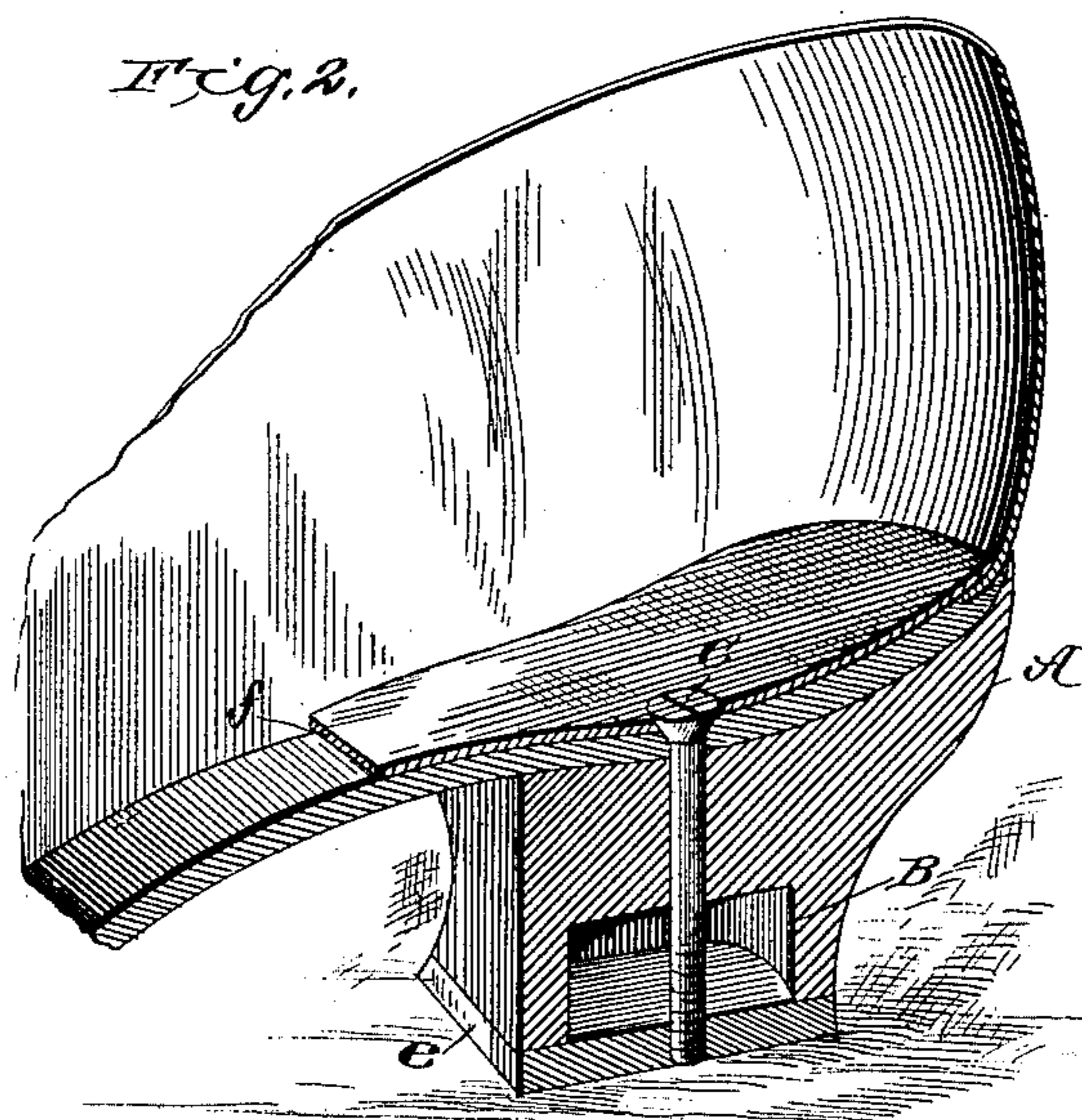
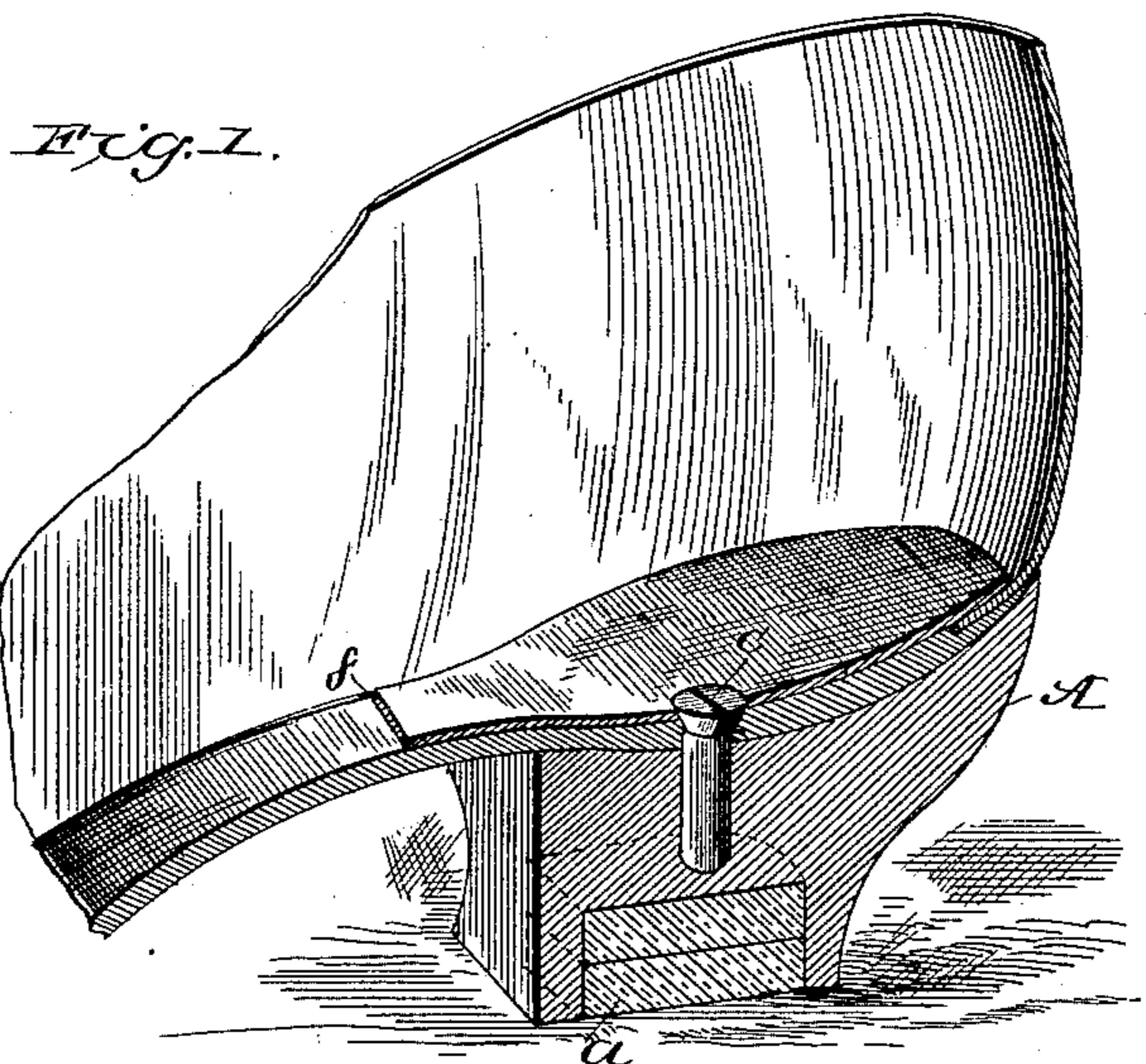
(No Model.)

E. S. HAY.

HEEL FOR BOOTS OR SHOES.

No. 348,847.

Patented Sept. 7, 1886.



WITNESSES

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EDWARD S. HAY, OF LYNN, MASSACHUSETTS.

HEEL FOR BOOTS OR SHOES.

SPECIFICATION forming part of Letters Patent No. 348,847, dated September 7, 1886.

Application filed July 30, 1885. Serial No. 173,015. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. HAY, of Lynn, in the county of Essex and Commonwealth of Massachusetts, have invented certain Improvements in Boot and Shoe Heels, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to boot and shoe heels, and the nature thereof is hereinafter fully described and specifically claimed.

Referring to the drawings, Figure 1 is a vertical longitudinal section illustrating my improved heel attached to a shoe. Fig. 2 is similar view showing a modified form thereof.

The heel-body A is given a contour to correspond with the style desired. It is composed of wood or metal or other suitable material, and is formed with a chamber, B. Within this chamber are arranged the filling-pieces a, (see Fig. 1,) which are held therein by the screw C. Said filling-pieces are composed of leather, and are designed to give a leather finish to the shoe-heel, as also to fill the cavity or chamber B. These filling-pieces are used only when the shell of the heel is made of metal. Instead of the lifts a, the bottom of the heel may be entirely covered by a top lift, e, in which case the chamber may be left vacant, as shown in Fig. 2. This top lift is also held on by the screw C.

Within the shoe and bearing upon the inner sole is a plate, f. This plate is formed to lie closely down upon the sole. The screw C passes down through this plate f and into the top lift. The head of the screw is countersunk into the plate, so as not to chafe the foot. This screw retains the heel onto the shoe, thus giving stability and firmness to the whole.

The plate f may be extended forward to the shank of the shoe, thus constituting a spring-shank for the shoe. In this case the plate should be formed of spring-metal.

I am aware that it is old to construct an annulus with a downwardly-projecting flange, and to combine it with a rotary head or lift. I am also aware that it is old to provide a shoe-heel with a bolt and nut to secure it to a shoe and to extend these bolts up through

the shoe heel and sole, and such constructions, broadly, I disclaim; but I am not aware that a heel has been made like mine, which heel has a smooth unbroken leather bottom, an inside elastic shank-stiffener plate, whose upper face is countersunk around a perforation, and having heel-body and lift secured together by a screw which extends down through the elastic plate, so that its head does not project above the plane of the top of the elastic plate, and whose lower screw-threaded portion extends into the lift in the heel only part way through it; and

What I therefore do claim is—

1. In a boot and shoe heel, the chambered body provided with the lift at its bottom, in combination with the elastic metallic shank-stiffener provided with a countersunk hole and a screw whose head fits into the countersunk hole, and which screw extends from said plate down to and into the lift at the bottom of the heel, substantially as described.

2. In a boot and shoe heel, the chambered body having the lift at its bottom, which lift extends over the entire bottom surface of the chambered body, in combination with the countersunk perforated plate and the screw whose head fits into the countersunk plate, and which screw extends down and screws into the lift, said screw extending only part way through the lift, leaving the bottom of the lift smooth and unbroken, substantially as described.

3. In a boot and shoe heel, the combination of the chambered body having the lift which fits the bottom of the heel-body, a screw whose threaded portion extends into the bottom lift and projects into the lift only part way through it, leaving the bottom smooth and unbroken, and having a secondary filling-piece above it, with an elastic metallic countersunk shank-stiffener which extends over the heel portion of the inside of the shoe and thence forward to the shank of the shoe, substantially as described.

EDWARD S. HAY.

Witnesses:

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