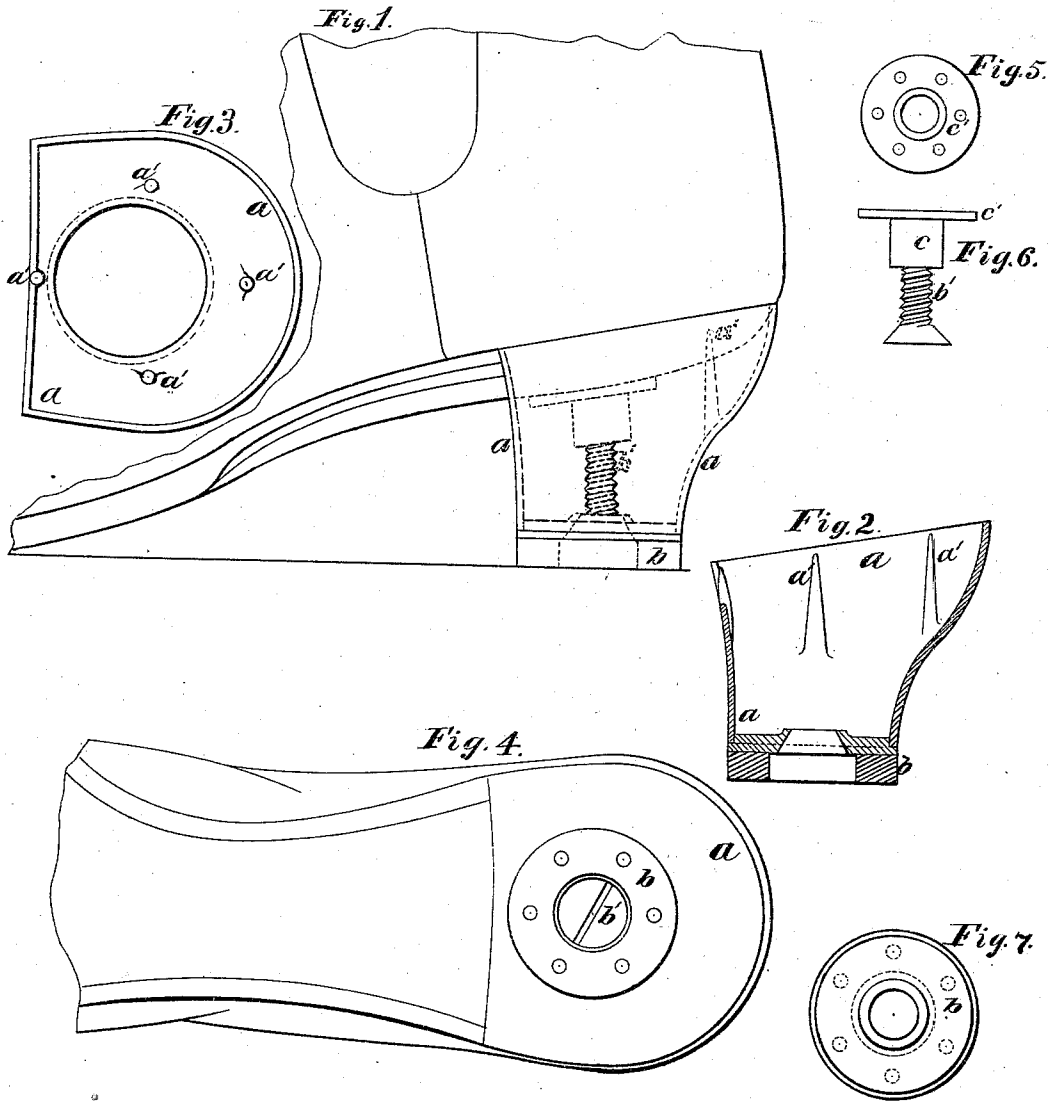


J. W. JONES.

HEELS FOR BOOTS AND SHOES.

No. 178,158.

Patented May 30, 1876.



Witnesses
 W. M. Harris } London
 John Ward Jones } Notary General
 Wilney M. Harris } Sheriff

UNITED STATES PATENT OFFICE.

JOHN W. JONES, OF HOLLOWAY, ENGLAND.

IMPROVEMENT IN HEELS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. 178,158, dated May 30, 1876; application filed May 4, 1876.

To all whom it may concern:

Be it known that I, JOHN WARD JONES, of Holloway, in the county of Middlesex, England, have invented certain Improvements in the Heels of Boots and Shoes, of which the following is a specification:

This invention has for its object improvements in the arrangement and construction of rotary heels for boots and shoes; and in order that my improvements may be clearly understood and readily carried into practice I will proceed to describe the drawings hereunto annexed.

Figure 1 shows an external view of part of a boot or shoe having a hollow rotary heel arranged and constructed in accordance with my improvements. Fig. 2 is a section of the heel part; Fig. 3, a plan of the shell; Fig. 4, an under-side view, and Figs. 5, 6, and 7 views of the parts separately.

The shell *a*, oblong or oval at the seat and circular at the base, is advantageously made of cast metal, although I do not confine myself thereto, as it may be stamped out of sheet metal, or be made of gutta-percha or other material capable of being molded to the form required. *a' a'* are points cast with or fixed to the shell *a*, for the purpose of securing it to the heel part of the sole, the shell *a* being further secured thereto by the screw *b'*, which secures the rotary plate *b* firmly in position when screwed into the screw-socket *c* of the plate *c'*, fixed by screws, rivets, or otherwise, to the central part of the heel.

It will thus be seen that my improved rotary heel is composed of three simple parts, *a*, *b*, and *c*, combined together by the screw *b'*, the whole being fitted together and finished complete, ready for being fixed or attached to the heel of a boot or shoe when first made, or

applied thereto as a substitute for the ordinary heel.

The shells *a* may be made of any size or height required.

In order to fix a rotary heel of this character the screw-socket *c* is first secured to the central part of the heel, which is readily ascertained by means of a gage corresponding with the outline of the heel. The shell *a* is then placed in position, pressure being applied thereto so as to force the points *a'* into holes previously punctured in the heel part of the sole, by which means the shell *a* is firmly secured in position. The rotary plate *b* is then fixed in position by the screw *b'*, which can be readily loosened at any time for the purpose of altering the position of the plate when worn, or replacing it by a new one.

Leather or other material may be applied to the outer surface of the plate *b*, as a wearing-surface.

I would remark that I am aware that it has before been proposed to construct metallic heels for boots and shoes. I therefore make no exclusive claim thereto apart from the novel arrangement and construction of the same as herein previously described; but

What I claim is—

The combination of the heel-shell *a*, provided with attaching-points *a'*, the rotary plate *b*, the screw socket-plate *c'*, attached to the heel part of the sole of a boot or shoe, substantially as shown, and the screw *b'*, all substantially as and for the purposes herein described.

JOHN WARD JONES.

Witnesses:

G. F. WARREN,
WILMER M. HARRIS.