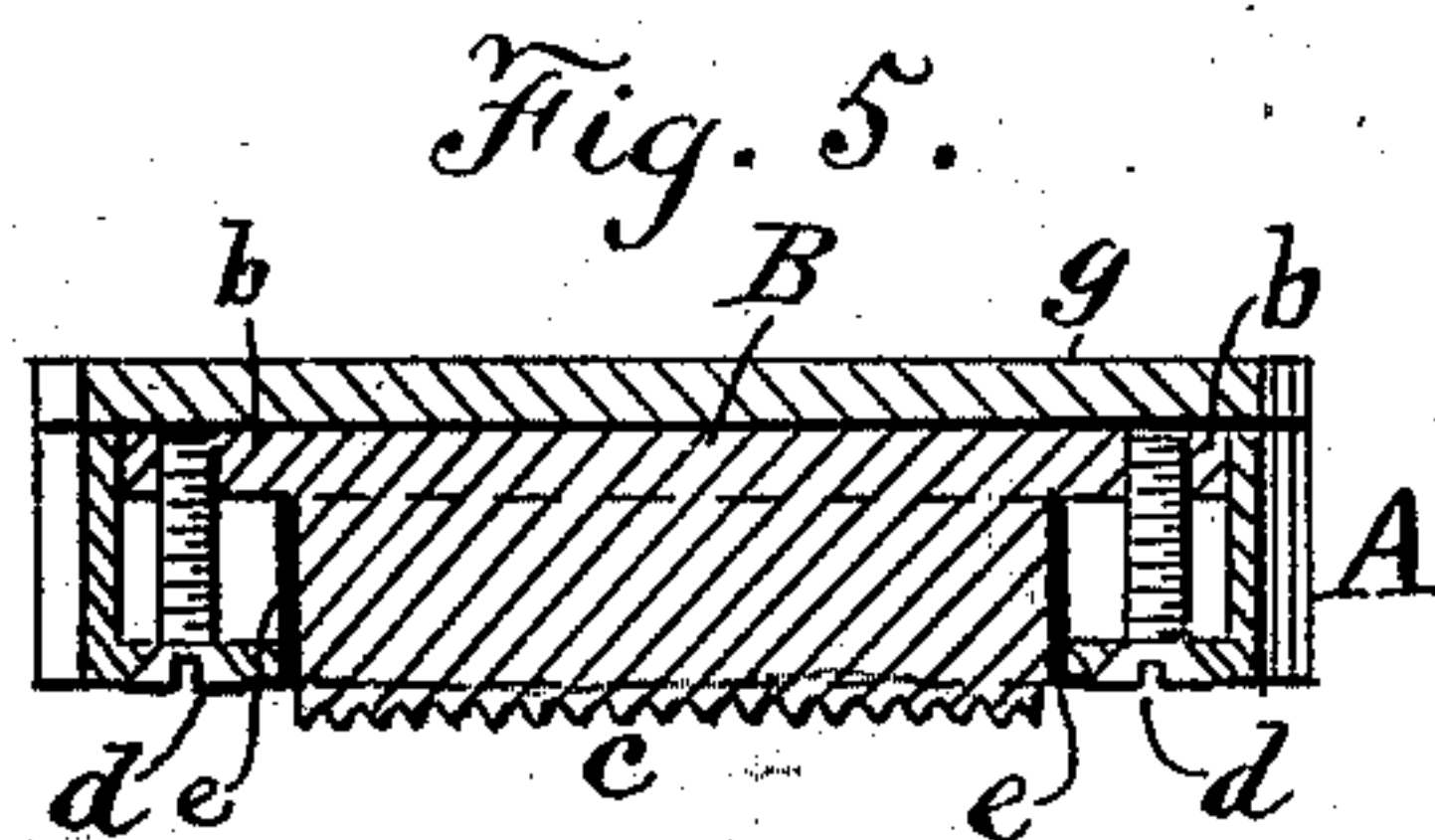
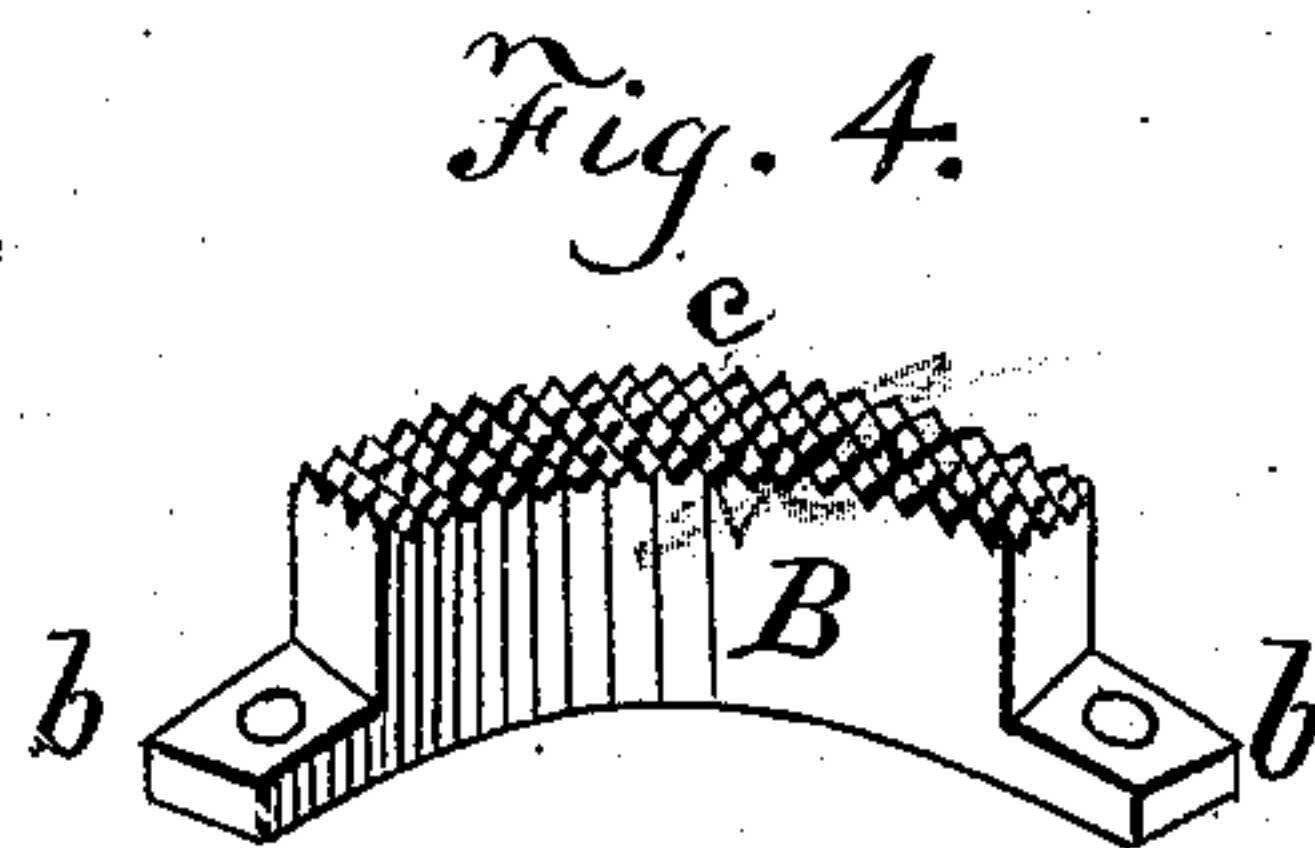
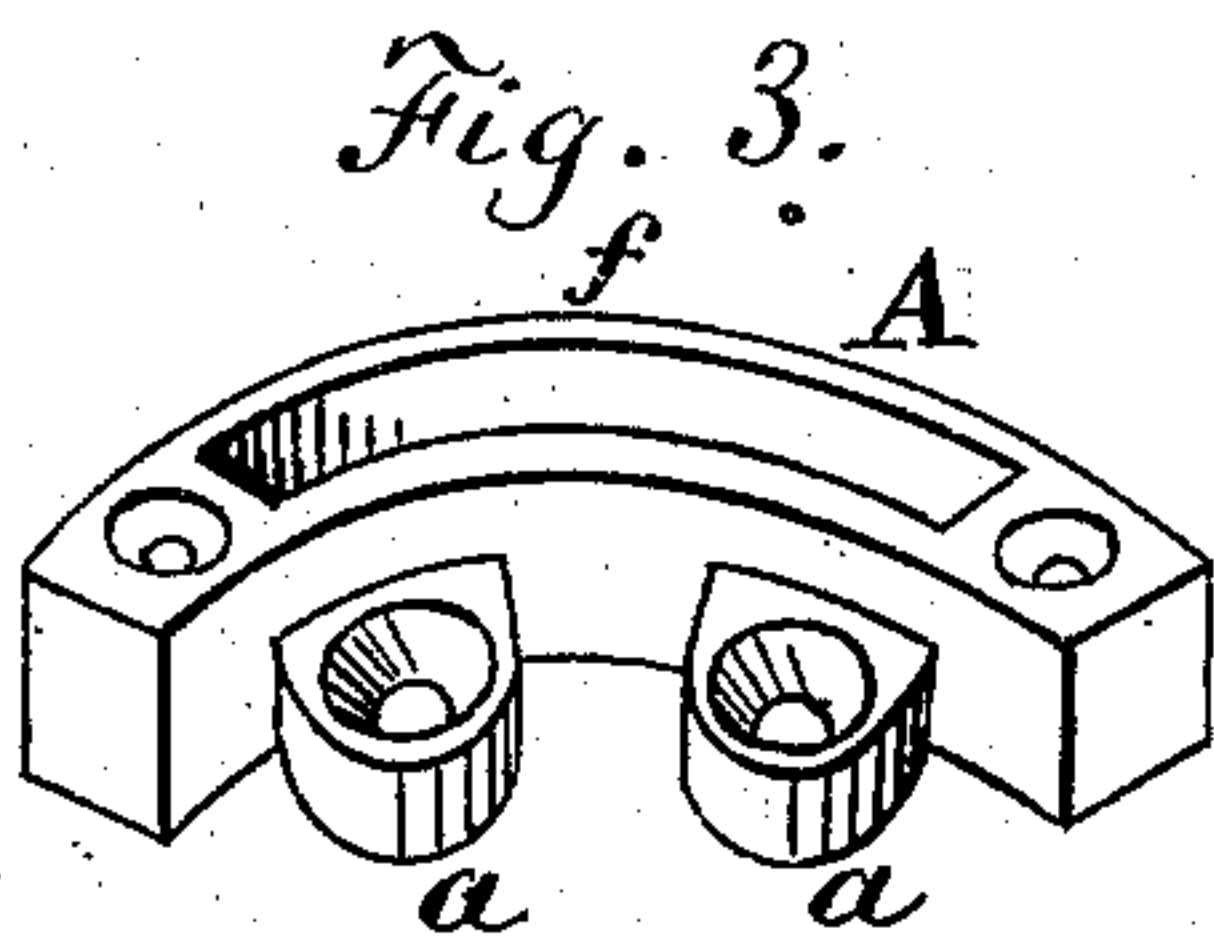
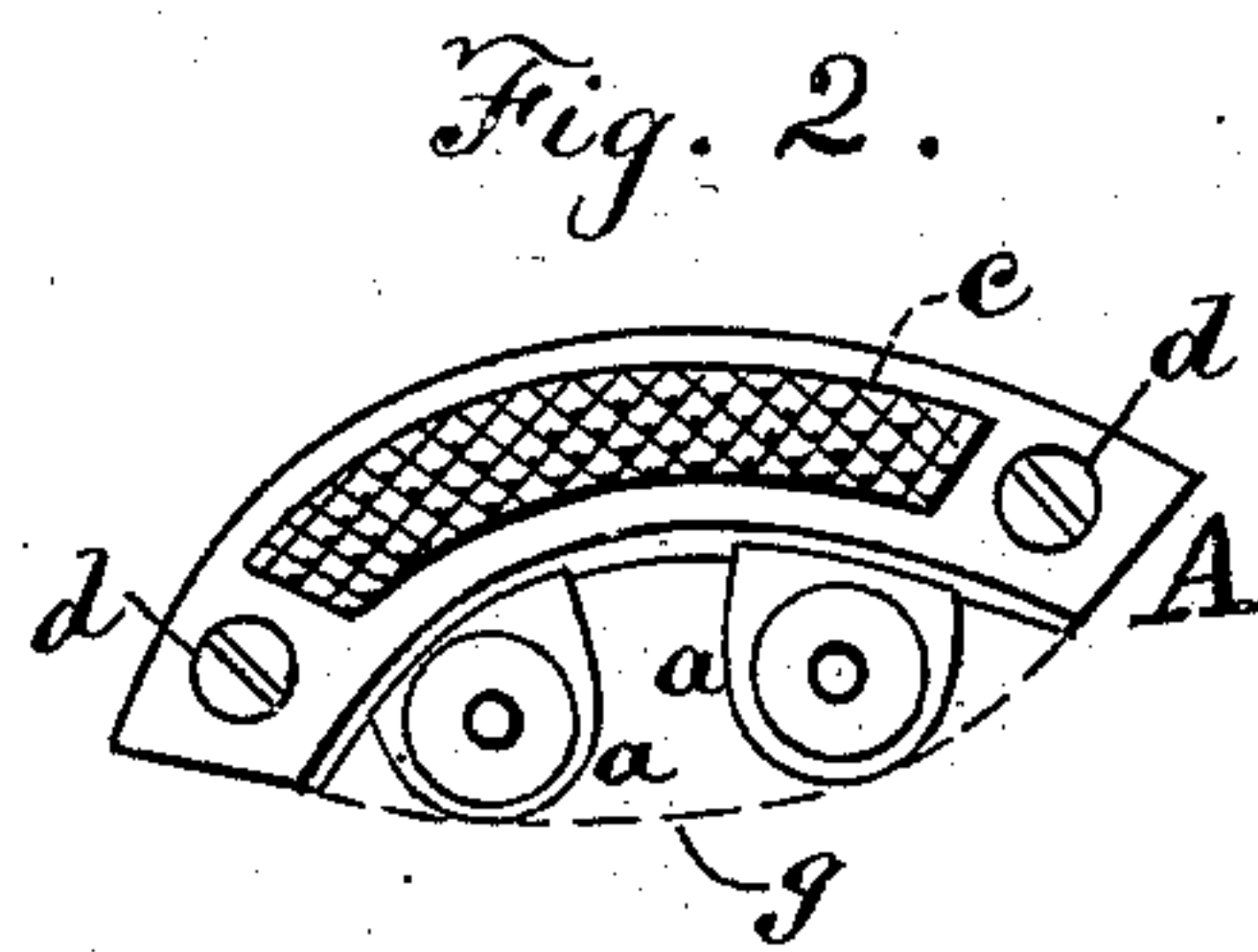
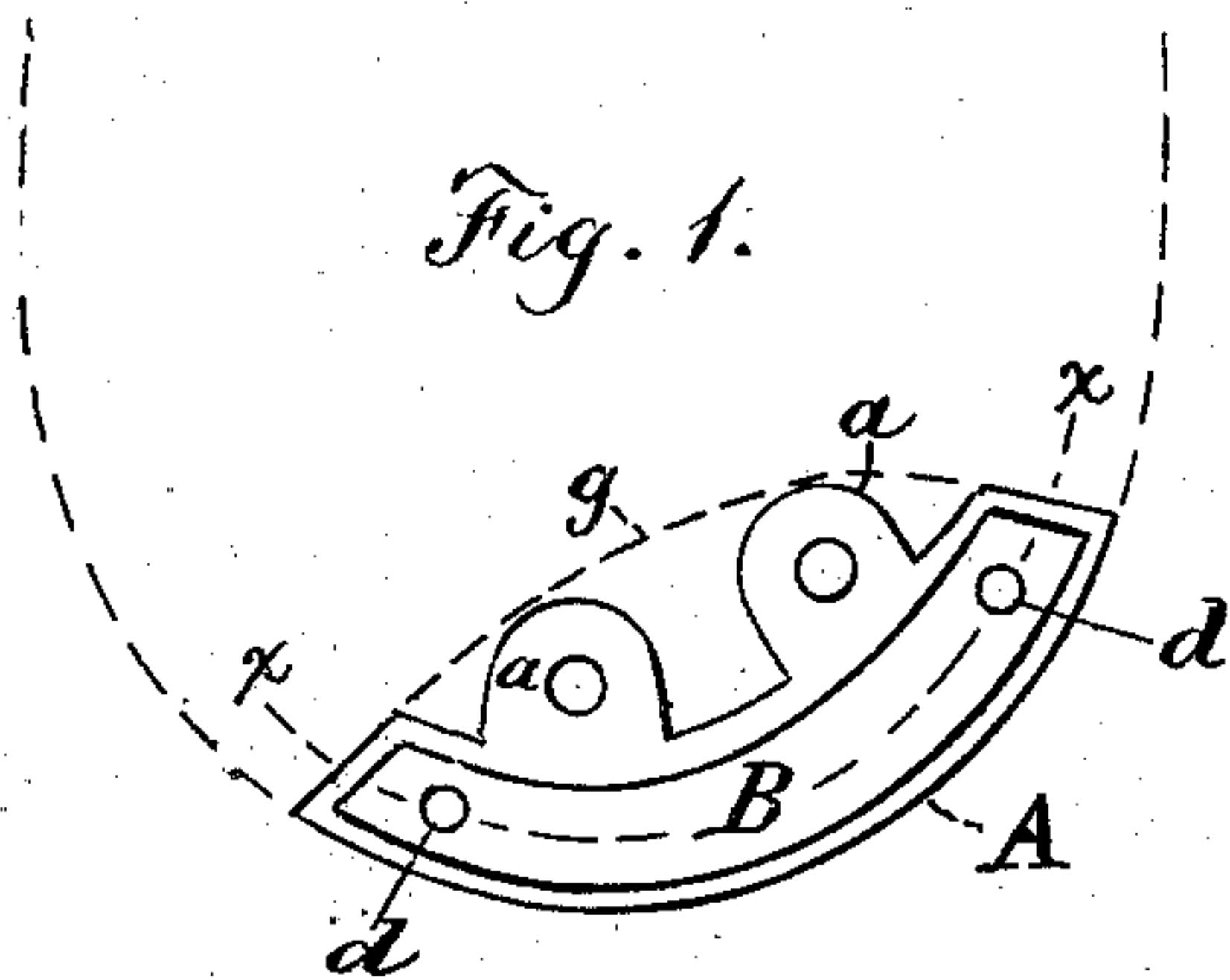


(No Model.)

T. ARMSTRONG.  
Heel Plate for Boots and Shoes.

No. 242,856.

Patented June 14, 1881.



Witnesses:  
G. B. Towles.  
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# UNITED STATES PATENT OFFICE.

THOMAS ARMSTRONG, OF UTICA, NEW YORK.

## HEEL-PLATE FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 242,856, dated June 14, 1881.

Application filed December 4, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS ARMSTRONG, a citizen of the United States, residing at Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Heel-Plates for Boots and Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as 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 letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to heel-plates for boots and shoes; and it consists in certain improvements in the construction of the same.

My improved heel-plate is made in two parts, one being placed within the other and being adjustable therein by means of screws, so that it may be brought downward as the bearing part becomes worn from use. A cushion of rubber or other suitable material is provided for the upper surface of the heel-plate to prevent jarring, and a lining of similar material is provided to surround the inner adjustable piece, the lining serving to hold the inner piece in position, and also to prevent dirt from working in around it.

In the drawings referred to, Figure 1 is a plan view of the upper surface of the heel-plate, its position in the heel being indicated. Fig. 2 is a plan of the bottom of plate. Figs. 3 and 4 are detached views of the outer and inner parts of the plate, respectively. Fig. 5 represents a vertical longitudinal section, as indicated by line *xx* along the center in Fig. 1.

In the drawings, A designates the outer plate or hollow casing, having the lugs *a*, with apertures for screws, by which the plate is fastened to the heel of the boot or shoe.

B indicates the core or inner part, which is to be inserted in the casing A, the latter being open at the top to receive the core, and also open at the bottom *f*, but to a more limited extent, as shown, to allow the bearing part of the core to project below, the bearing-surface *c* being usually notched or corrugated to prevent slipping. The core B, conforming horizontally to the interior of the casing A, has at its ends

the arms or lugs *b*, with threaded holes to receive the screws *d*, the said screws passing upward through apertures in the bottom of the casing A. The said screws do not move vertically when turned, but the core B is adjusted vertically by turning the screws, so that as the bearing-surface of the core is worn away the core may be adjusted on the screws and brought downward, as desired. The lower part of the core B fits in the lower opening of the casing A; but in order to keep the core in proper position within the casing, and also to prevent dirt from working in, a lining, *e*, of rubber or other suitable material is placed within the casing so as to surround the core, as shown in the drawings.

To prevent jarring, a cushion, *g*, of rubber or other suitable material is placed between the upper surface of the heel-plate and the leather or material of which the heel is formed, the heel being usually recessed to receive the parts. These cushions are made of various thicknesses, and in boot or shoe making they facilitate the application of the plate to the heel, and also serve to make the boot or shoe easier in walking.

Having described my invention, I claim—

1. A heel-plate for boots or shoes, having a bearing-plate, B, within an outer plate, the bearing-plate being adjustable by means of vertical screws passing into threaded holes in the said plate B, substantially as set forth and described.

2. A heel-plate for boots or shoes, consisting of the hollow plate A and the core or inner bearing-plate, B, provided with lugs *b*, and being adjustable within the hollow plate by means of the vertical screws *d*, substantially as set forth.

3. In a heel-plate, in combination with the outer plate, A, the inner plate, B, the latter having an elastic packing, *e*, surrounding it, substantially as set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

THOMAS ARMSTRONG.

Witnesses:

JOHN D. GRIFFITH,  
JOHN SHAUGHNESSY.