



# UNITED STATES PATENT OFFICE.

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## IMPROVED BOOT AND SHOE HEEL.

Specification forming part of Letters Patent No. 72,963, dated January 7, 1868.

Be it known that I, GEORGE BEATY, of Middlebury, county of Summit, State of Ohio, have invented a new and Improved Boot and Shoe Heel; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a front view. Fig. 3 is a surface view; Fig. 4, back view.

The nature of my invention consists in beveling the head of a hollow boot-heel in such a manner that it will conform exactly to the sloping angle of the heel of the last, whereby I obtain a broad bearing-plate for the leather to rest on, and in which the rear of the boot or shoe snugly fits, and to which it can be securely attached without being brought in contact with any sharp edge or ridge, which cuts the leather and soon renders valueless the boot or shoe.

Another important feature of my invention consists in arranging in the center of the beveled head-plate a series of spikes, by means of which the hollow metal heel can be firmly attached to the boot or shoe.

The great advantages of my invention will readily suggest themselves to any one familiar with the business to which my invention is applicable. In the first place the heel, being hollow, is much cheaper, and, the spikes being in the center instead of on the edge of the heel, it can be much more securely attached; and, again, the bearing being beveled, the shoe does not rest on the top of the heel-plate, but the heel-plate, as it were, forms a

cap, which incases the shoe, so that when you strike any obstacle in walking the strain is borne by the entire hollow rim of the heel, it furnishing both a bottom and side bearing, and not at one point, as is the case when the shoe rests on a flat plate.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction.

A is a heel, which is hollow, and may be made of any kind of metal adapted to such purposes. The heel may be cast, formed in molds, struck up, or in any manner deemed most desirable, and may be chilled or hardened by any of the numerous processes now in use.

B is the upper plate of the heel, which is beveled so as to exactly correspond with the slope of the last. In this beveled plate B the shoe rests and has its bearing. *a a* are a series of spikes, which are arranged in the center of the plate B. *b b* are holes in the bottom plate of the heel, through which pass the screws *c c*, for fastening the heel.

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

Constructing a metal boot-heel hollow, when its upper face is beveled, so as to form a broad bearing for the shoe to rest in, and also having a series of spikes arranged in the center thereof, as herein described, and for the purpose specified.

GEORGE BEATY.

Witnesses:

JOHN S. HOLLINGSHEAD,  
JOHN D. BLOOR.