

J. M. EWING.

Metal Wear-Plate for the Treads of Boot and Shoe Heels.

No. 163,004.

Patented May, 11, 1875.

Fig. 1.

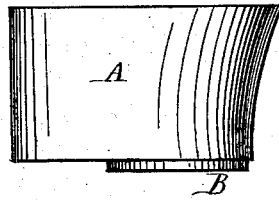


Fig. 2.

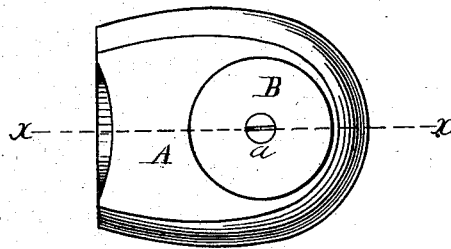
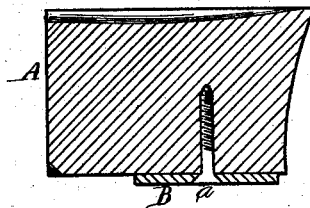


Fig. 3.



Witnesses;

James F. Duhamel,  
Thomas Payne.

Inventor;

James M. Ewing,  
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Attorney.

# UNITED STATES PATENT OFFICE.

JAMES M. EWING, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR  
OF ONE-HALF HIS RIGHT TO J. L. MCGEE, OF SAME PLACE.

IMPROVEMENT IN METAL WEAR-PLATES FOR THE TREADS OF BOOT AND SHOE HEELS.

Specification forming part of Letters Patent No. 163,004, dated May 11, 1875; application filed  
March 8, 1875.

*To all whom it may concern:*

Be it known that I, JAMES M. EWING, of Washington, county of Washington and District of Columbia, have invented certain new and useful Improvements in Metal Plate for the Heels of Boots and Shoes, of which the following is a specification:

The nature of my invention consists in a circular revolving plate pivoted to the under side of a boot or shoe heel, as will be herein-after more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a side view of a boot-heel embodying my invention. Fig. 2 is a bottom view of the same; and Fig. 3 is a longitudinal section through the line *x x*, Fig. 2.

A represents a boot or shoe heel of any suitable shape and size. B represents a circular plate or disk, smaller than the tread of the heel, and pivoted to turn upon its center *a*, in such relation to the heel that a portion of its perimeter shall correspond with the side of the heel at the point where it first meets the ground, so that it may be continually turned

to present a new wearing-surface with every step.

If the plate B were stationary on the heel, one side of the plate would soon be worn down, as in walking the heel is invariably put down more or less to one side from the center.

With my invention the circular plate or disk is turned on its pivot a short distance every time the heel strikes the ground, and a new part of the edge of the plate is presented at every step. As a result the plate is worn equally all around.

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

A circular revolving plate or disk, pivoted at its center, and attached to the under side of a boot or shoe heel, all arranged and operating so that a portion of its perimeter shall correspond with the side of the heel at the point where it first meets the ground, substantially as shown and described.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 8th day of March, 1875.

JAS. M. EWING.

Witnesses:

W. K. DUHAMEL,  
THOMAS BYRNE.