

L. W. BUXTON.

Heel-Protector for Boots and Shoes.

No. 168,224.

Patented Sept. 28, 1875.

Fig. 1.

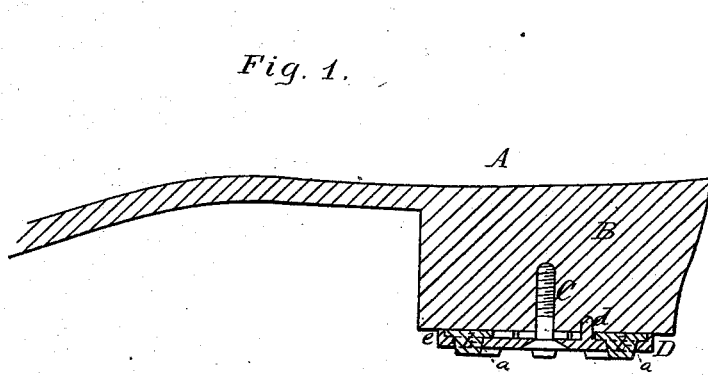


Fig. 2.

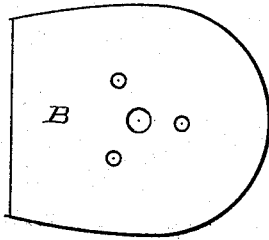


Fig. 3.

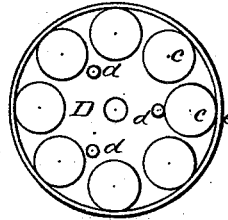
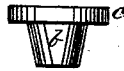


Fig. 4.



WITNESSES

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# UNITED STATES PATENT OFFICE.

LEVI W. BUXTON, OF NASHUA, NEW HAMPSHIRE.

## IMPROVEMENT IN HEEL-PROTECTORS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **168,224**, dated September 28, 1875; application filed June 19, 1875.

*To all whom it may concern:*

Be it known that I, LEVI W. BUXTON, of Nashua, in the county of Hillsborough and State of New Hampshire, have invented a new and valuable Improvement in Heel-Protectors for Boots and Shoes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical section of my device, and Figs. 2 and 3 are plan views of the same. Fig. 4 is a detail view.

This invention has relation to heel-protectors; and it consists in the construction and novel arrangement of the recessed heel-plate, its spurs arranged at equal distances apart, and the separate rubber studs, designed to project through the perforations of the heel-plate, all as fully shown and described.

In the accompanying drawings, the letter A designates a shoe, having a heel, B, to which the heel-protector is represented as being secured by a central screw, C. D represents the heel-plate, preferably circular in form, and recessed in its upper face, a rim, e, extending around its circumference of sufficient height to hide the heads of the rubber studs when the plate is screwed down. Through the perforations a of the plate project the ends of the studs b, which are preferably made tapering. These studs each have a flanged head, c, which rests upon the upper surface of the plate D,

just within the rim. At equal distances apart, and from the center of the heel-plate, are the upwardly-projecting spurs d, which are designed to enter the leather of the heel and prevent the heel-plate from turning.

If three spurs are employed, as shown in the drawings, and the rubber studs are found to be worn unequally, the protector may be turned one-third around after loosening the central screw, and then screwed tight again, as the spurs will fit in the same holes in the leather.

The object of hollowing or recessing the plate in its upper surface is to prevent noise while walking, and the rim e serves to protect and hide the heads of the rubber studs. When the plate is screwed down, it should press the rubber heads firmly, and the rim should touch the heel.

As the rubber studs are independent of each other, they may be taken out and replaced by new ones, when worn away, at small expense.

What I claim as new, and desire to secure by Letters Patent, is—

The adjustable heel-plate D, having the raised rim e and spurs d, in combination with the flanged rubber-studs b, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

LEVI W. BUXTON.

Attest:

BEN. F. EMERSON,  
J. E. HUNT.