L. RICHARDS.

BOOT AND SHOE HEEL PROTECTOR.

No. 192,839. Patented July 10, 1877.

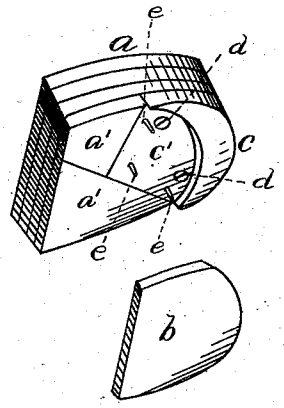


Fig. 1

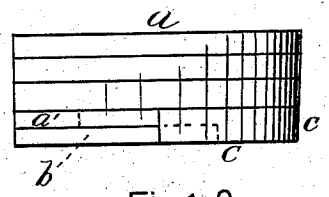


Fig. 2.

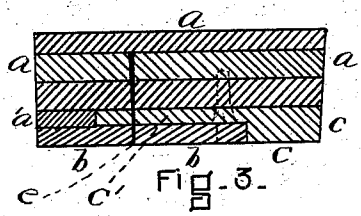


Fig. 3.

WITNESSES

L. M. Williams

John E. Fanning.

Louis Richards INVENTOR

By his Attys

Henry W. Williams & Co

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

LEWIS RICHARDS, OF BRAINTREE, MASSACHUSETTS.

IMPROVEMENT IN BOOT AND SHOE HEEL-PROTECTORS.

Specification forming part of Letters Patent No. **192,839**, dated July 10, 1877; application filed May 18, 1877.

To all whom it may concern:

Be it known that I, LEWIS RICHARDS, of Braintree, in the county of Norfolk and State of Massachusetts, have invented a new and useful Improvement in Boot and Shoe Heel-Protector, which improvement is fully set forth in the following specification and accompanying drawing, in which—

Figure 1 is a perspective view of a heel having my improvement attached, and with the under lift represented as removed, the better to exhibit the invention. Fig. 2 is a side elevation of the heel. Fig. 3 is a vertical section of the same.

Similar letters of reference indicate corresponding parts.

The object of the invention is to furnish a durable heel-protector, which is not liable to become loose, and whose fastenings or attaching-screws are protected by the under lift, so that they are not exposed to wear.

a represents the heel, and *b* the under lift or "tread" of the heel. *c c'* represent the metallic heel-protector. *c* is the thick portion or tread, and is the part exposed to wear. *c'* is the thin portion or shank, and is the part attached to the heel by means of screws or nails *d d*. The under lift or tread *b*, being shortened and placed flush against the tread *c* of the protector, lies under the thin portion or shank *c'* of said protector, thus preventing it from coming in contact with the ground, and wearing off the heads of the screws *d* and loosening the plate. The protecting-plate *c c'* occupies a large portion of the space belonging to the second lift *a'* and a part of the space belonging to the first or under lift. The shank is usually brought to a point, as seen in Fig. 1, as it facilitates putting together. Nails *e e e* are driven through the lifts and through openings in the shank *c'* prepared for the purpose, as seen in Figs. 1 and 3. Thus the protecting-plate is exposed where service is needed, and itself protected where it is attached to the heel.

The tread *c* may be roughened, to prevent slipping in winter, or smooth, as seen in the drawing, as desired.

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

In a boot and shoe heel, the combination, with the protecting-plate *c*, having the shank *c'*, of the shortened lift *b*, all arranged and united substantially as and for the purpose set forth.

LEWIS RICHARDS.

Witnesses:

HENRY W. WILLIAMS,

JOHN E. FREUNING.