

THOMAS W. BROWN.

Boots and Shoes.

No. 125,717.

Patented April 16, 1872.

Fig. 1.

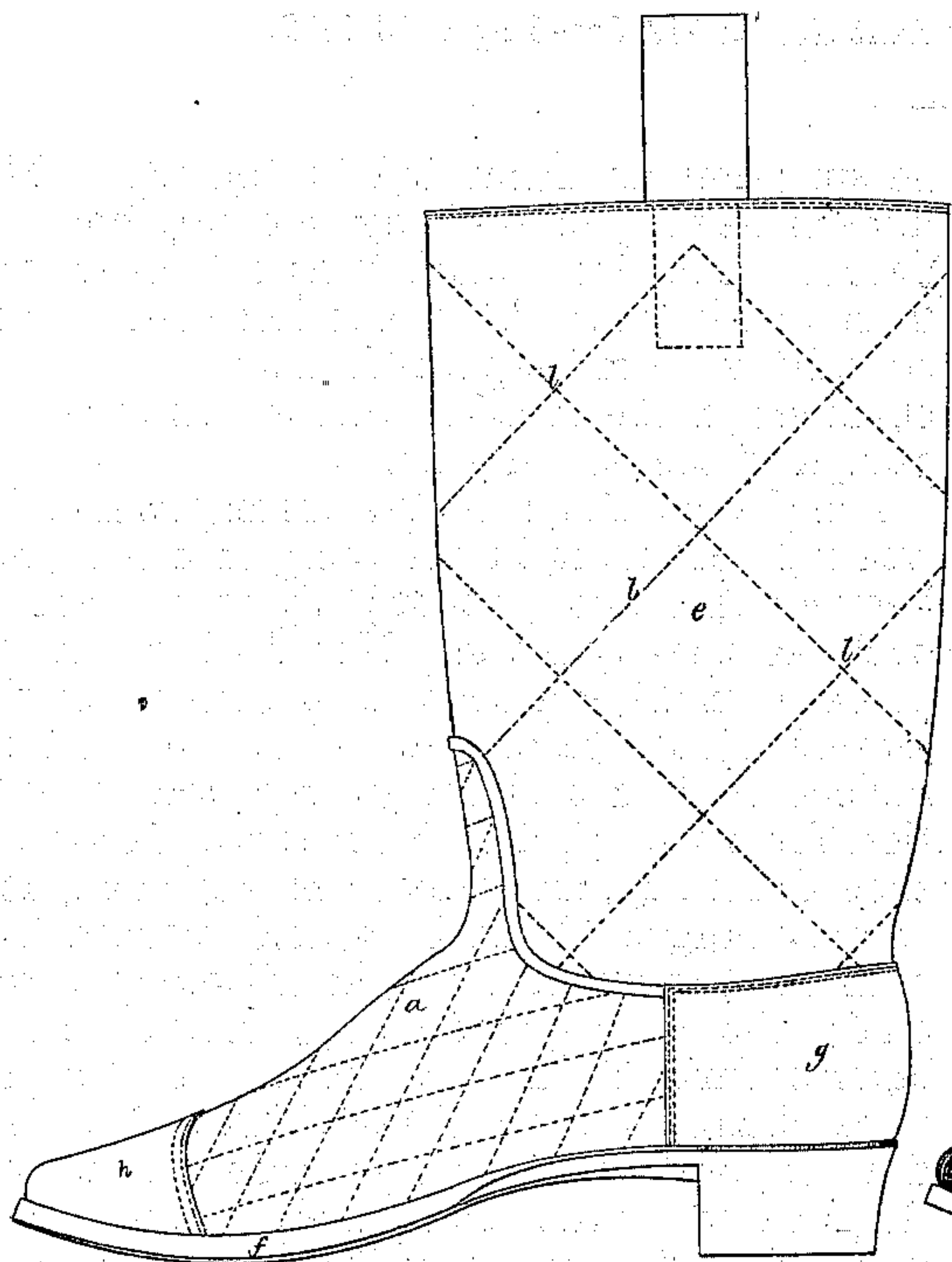


Fig. 2.

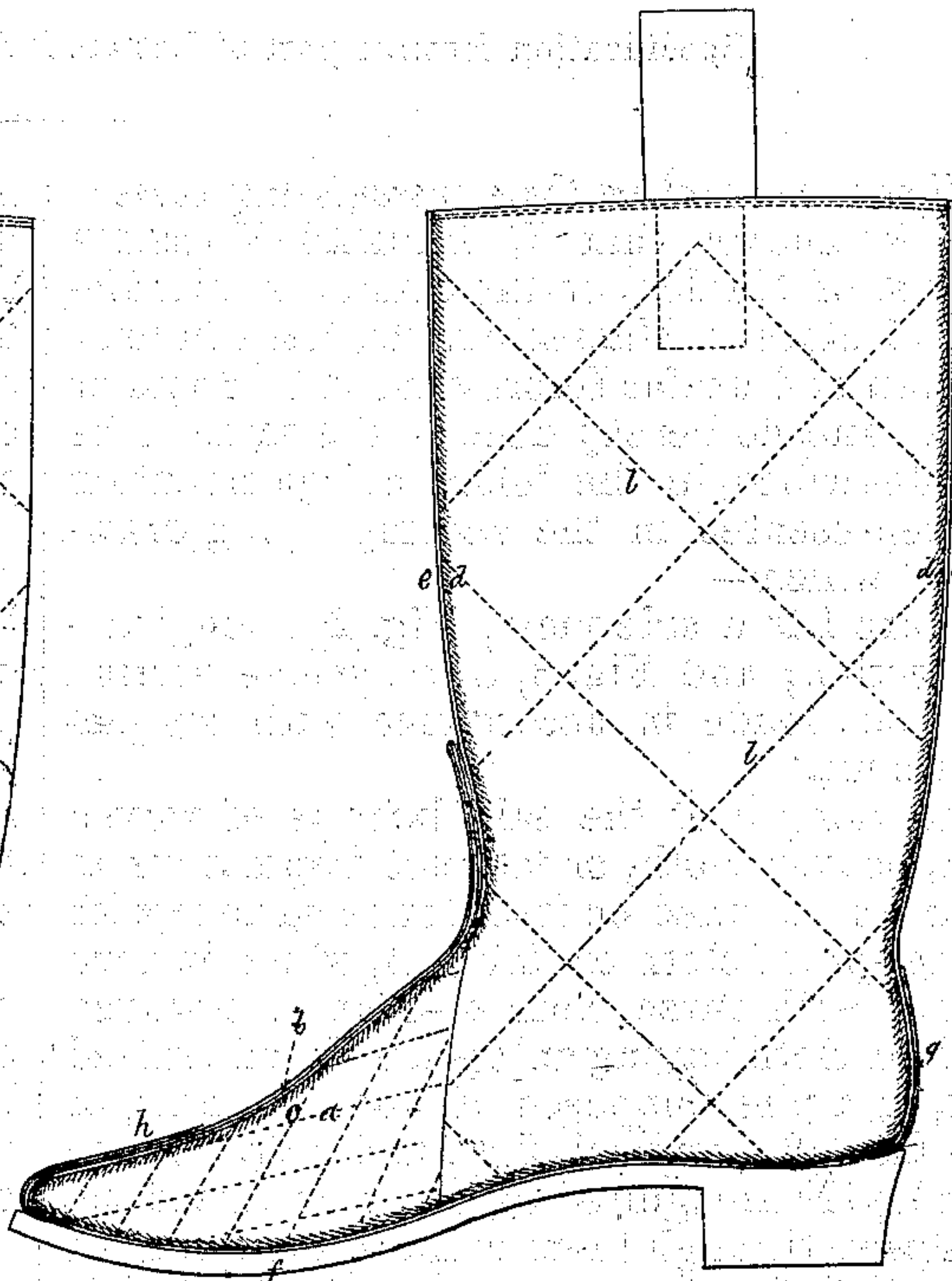
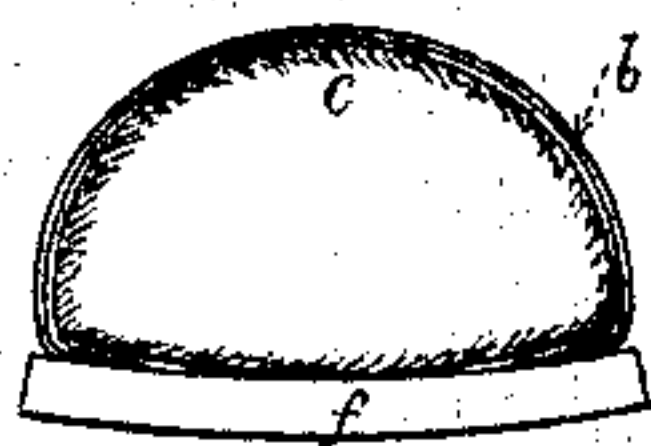


Fig. 3.



Witnesses.

S. W. Piper.

L. W. Möller.

Thomas W. Brown

by his attorney.

R. H. Esdy

UNITED STATES PATENT OFFICE.

THOMAS WINSHIP BROWN, OF MALDEN, ASSIGNOR TO HIMSELF, NATHANIEL L. FRANCIS, AND ANDREW J. MALLON, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BOOTS AND SHOES.

Specification forming part of Letters Patent No. 125,717, dated April 16, 1872.

To all persons to whom these presents may come:

Be it known that I, THOMAS WINSHIP BROWN, of Malden, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Boots or Shoes; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a side view; Fig. 2, a longitudinal section; and Fig. 3, a transverse section of a boot made in accordance with my improvement.

The vamp *a* of the said boot is of woven cloth, beaver cloth, or felt not impervious to water, and is lined on its interior surface with a water-proof cloth or lining, *b*, which in turn is lined with furze cloth *c*—that is, a woven or felted cloth having an open wool pile raised on it, or a pile composed of wool and hair, or wool and jute, or wool, jute, and hair. These three layers are quilted together by thread being sewed through them in lines, the lining or loose pile being innermost, so as to be next to the foot or stocking when the boot or shoe may be in wear. In case of a boot, I usually make the leg portion of a layer of canvas and a lining of the furze cloth, and quilt the whole together; *d* in the drawing being the furze-cloth lining, and *e* the canvas, and *ll* the lines of quilting. The sole *f* is of leather, and the heel and the toe of the upper may be re-enforced by tips or guards *g h*, of leather or other material, extended around and sewed to them and also to the sole.

A boot or shoe so made is not only very soft and easy to the foot while in wear, but is water-proof and ventilating, the furze cloth serving not only to keep the foot warm, but to admit of the ready evaporation and escape of the

perspiration as generated in the foot. The lines of sewing or quilting not only hold together the layers of cloth so as to prevent one from wearing the other, but keep them from stretching out of shape, and also seem to make channels in the furze or pile to facilitate the escape of the perspiration.

I make no claim to the arrangement of a water-proof lining in the vamp of a shoe, nor between the two or more layers composing such, as usually made. Nor do I claim the mode of making a shoe as described in the United States patent No. 77,717, nor that described in James Eshelby's rejected application for a patent, filed February 2, 1850; my shoe differing materially from any such, as I employ ranges of stitching, and by means of such quilt together the layer of woven or felt cloth, the water-proof lining, and the inner layer of furze cloth. The lines of sewing produce channels in the furze cloth to facilitate the evaporation of moisture from the foot of the wearer of the shoe; and, besides, such lines of sewing preserve the outer or cloth layer from stretching out of shape or being easily torn, and impart to the shoe an ornamental appearance. My invention I confine to the shoe-upper as made of the materials described, quilted together as set forth; therefore,

What I claim as my invention, or as a new or improved manufacture, is—

The boot or shoe upper as composed of the furze cloth, the water-proof lining, and the external layer of woven or felt cloth, arranged and quilted together as described.

THOMAS WINSHIP BROWN.

Witnesses:

R. H. EDDY,
J. R. SNOW.