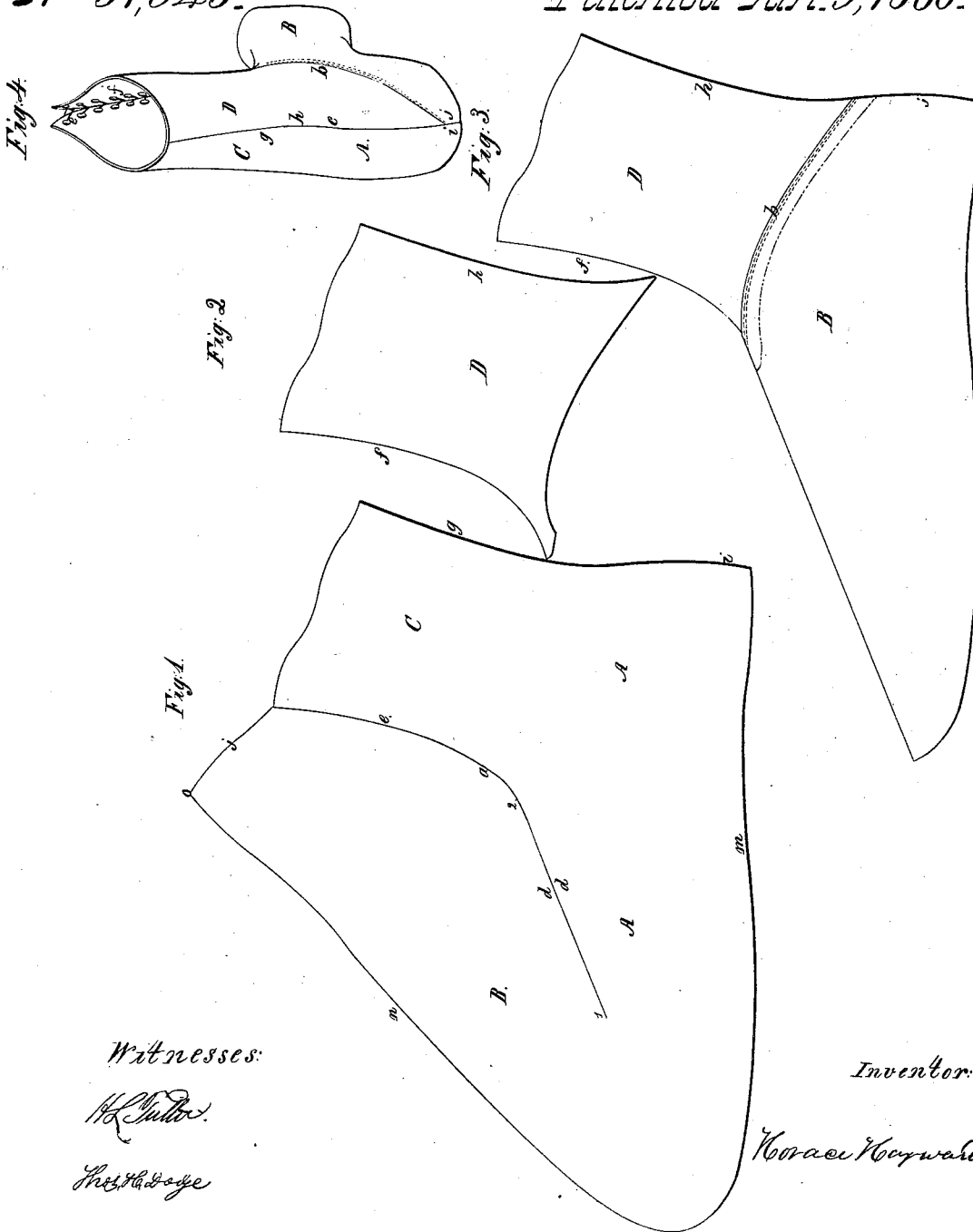


*H. Hayward,*

*Cutting Boot Vyners,*

*Nº 51,943.*

*Patented Jan. 9, 1866.*



*Witnesses:*

*H. Clinton.*

*Thos. H. Gage*

*Inventor:*

*Horace Hayward*

# UNITED STATES PATENT OFFICE.

HORACE HAYWARD, OF FITCHBURG, ASSIGNOR TO HIMSELF AND THOMAS  
H. DODGE, OF WORCESTER, MASSACHUSETTS.

## IMPROVEMENT IN CUTTING UPPERS FOR BALMORAL BOOTS.

Specification forming part of Letters Patent No. **51,943**, dated January 9, 1866.

*To all whom it may concern:*

Be it known that I, HORACE HAYWARD, of Fitchburg, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in the Mode of Cutting the Uppers for Balmoral Boots; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a side view of a piece of leather cut after my invention to form one side of a leg and the top and sides of the foot of a balmoral boot. Fig. 2 represents the piece of leather necessary to complete the leg of the boot. Fig. 3 represents the pieces shown in Figs. 1 and 2 stitched together; and Fig. 4 represents, upon a reduced scale, a rear perspective view of the parts shown in Figs. 1 and 2 when stitched as seen at *b*, and closed in rear at *e*, and provided with eyelets and lacing in front.

In the drawings, A, Fig. 1, represents the part which forms one half of the upper for the boot, B the other half, and C the part which forms one half of the leg, the other half of the leg being formed by the extra piece D, Fig. 2. It will be seen that the line of cut *a* is in the proper position and of the desired curvature for the opening in the front of the boot which is to be laced up, the edges *d d*, from 1 to 2, being laced together, while the edge *e* of the part C is laced with the edge *f* of the part D, and the edge *g* of C is closed with the edge *h* of piece D, except the lower part, *i*, which is closed with the edge *j* of the part B. The edges *m* and *n* form the bottom of the upper when soled.

By the above mode of cutting the uppers of

high-top balmoral boots a very large per cent. of leather is saved, while all seams over the foot are avoided. The boot can be made according to my invention much cheaper, so far as relates to the mere labor of making, while the boot is much better when completed. It fits the foot much better, there being no seams across the top to press into the foot. The stock taken up in the lap-seams over the foot, as heretofore made, is saved.

The amount of stock saved by my invention will be fully illustrated by cutting up two sides of leather into high-top balmoral boots, one side by my plan and the other by the old mode. The amount saved by my invention will surprise the most expert cutters, while another large saving in labor is effected in fitting the uppers.

On very thick leather the rear part of the piece D might be cut so as to extend down to the sole of the boot, in which case the corner *o* of the part B would be left off in cutting the upper.

Having described my improved mode of cutting the uppers of high-top balmoral boots, what I claim as of my invention, and desire to secure by Letters Patent, is—

1. Cutting the parts A, B, and C, which form the top and sides of the foot and one side of the leg of a high-top balmoral boot, substantially as shown and described.

2. Cutting the part D to form one side of the leg of a high-top balmoral boot, substantially as shown in Fig. 2 of the accompanying drawings.

HORACE HAYWARD.

Witnesses:

H. L. FULLER,  
THOS. H. DODGE.