

J. LANHAM.
Boots and Shoes.

No. 158,093.

Patented Dec. 22, 1874.

FIG. 3.

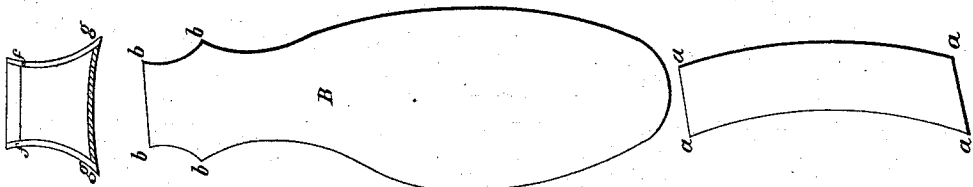


FIG. 2.

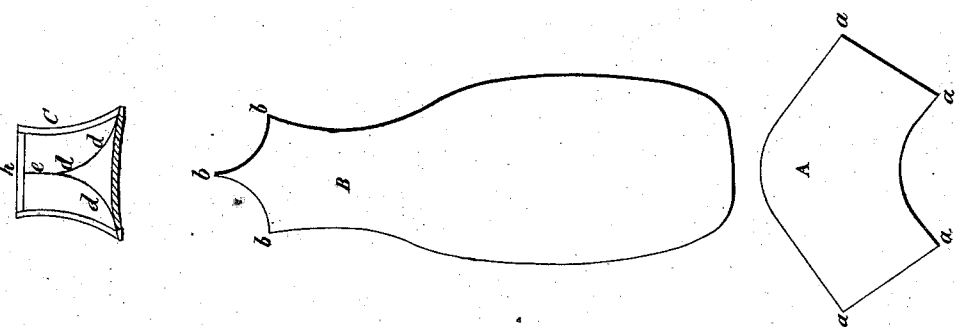
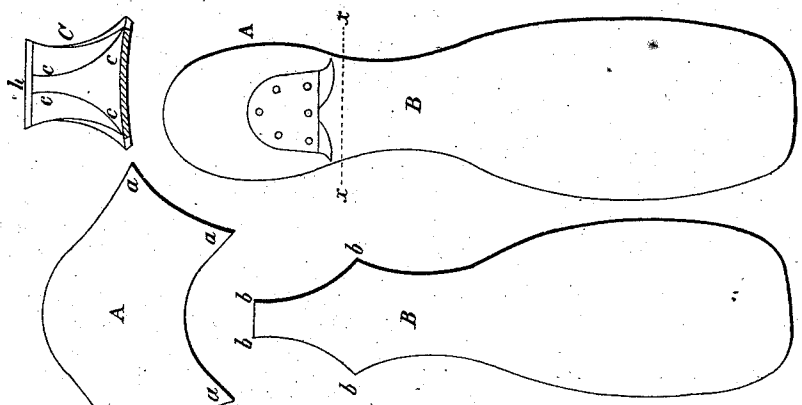


FIG. 1.



Witnesses.
Harry C. Clark
H. E. Matthews

Inventor
John Lanham
 By *H. W. Beadle & Co.*

Attest.

UNITED STATES PATENT OFFICE.

JOHN LANHAM, OF LONDON, ENGLAND, ASSIGNOR TO EBENEZER POCOCK
AND CHARLES F. GARDNER, OF SAME PLACE.

IMPROVEMENT IN BOOTS AND SHOES.

Specification forming part of Letters Patent No. **158,093**, dated December 22, 1874; application filed
September 9, 1874.

To all whom it may concern:

Be it known that I, JOHN LANHAM, of London, England, shoemaker, have invented Improvements in the Manufacture of Boots and Shoes, of which the following is a specification:

The said invention relates to further improvements in the manufacture of boots and shoes described in the specification of my former Letters Patent, dated May 26, 1874, No. 151,296.

According to my present invention I form the sole and the heel-shell of two or more pieces of leather, with a seam made by stitching or otherwise at each corner of the heel, or at or near the center of the front of the same.

In this process the piece of leather forming the heel-shell may be of inferior quality, thereby effecting a very great saving in the cost of a boot or shoe.

When the shell is made of a separate piece it is united to the rear end of the sole by two seams, either by stitches or other fastenings, and this end of the sole is bent up to form the front, or a portion of the front, of the heel.

The two pieces are united by seams at each corner, or in front; or the seams may be made triangular to meet at or near the top of the heel, and there merge into one seam.

In the accompanying drawings, Figures 1, 2, 3, 4 illustrate various methods of forming my improved combined boot or shoe soles and heels.

In Figs. 1, 2, 3, A is the piece of leather cut out to form the heel. B is the sole. C is a transverse section on the line *x x*.

In Fig. 1 I have shown the edges *a b* of the parts A B united by two seams extending from the sole to the bottom of the heel, as at *c*.

In Fig. 2 I have shown the edges *a b* somewhat varied in shape, so that when united

they form a triangular seam, *d*, merging into a straight central seam, *e*.

In Fig. 3 I have shown the parts A B united by two seams, *f g*, at the corners of the heel.

The heel may be formed of any desired shape by suitable mechanism.

The pieces of leather A B, of which the sole and heel are formed, are first cut in the proper shape from hides of leather of suitable thickness and quality.

The piece to form the shell of the heel must be of such shape that when united to the sole and blocked the said heel and sole will be in the proper form for attaching to the upper.

The shell of the heel may be blocked on wood of the shape required for the heel when finished, in which case the wood will remain incased with the leather; or it may be blocked to any required form, and subsequently filled with wood, or other material adapted to the class of work for which it is designed.

A piece of leather or metal, *h*, called in the trade a "top piece," is subsequently secured to the outside of the heel to give it support and a finished appearance.

I am enabled by these improvements to greatly facilitate the manufacture of boots and shoes, and to economize both material and labor; and, moreover, the heels constructed according to this invention are greatly superior in appearance, and much more durable than the ordinary heels of boots and shoes.

I claim as my invention—

A combined sole and heel formed of the parts A B, united by stitching the tongue of part B to the edges of A, as shown and described.

JOHN LANHAM.

Witnesses:

HENRY I. NOON,
JAMES EDWARD.