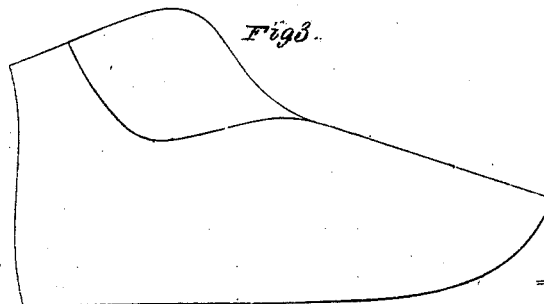
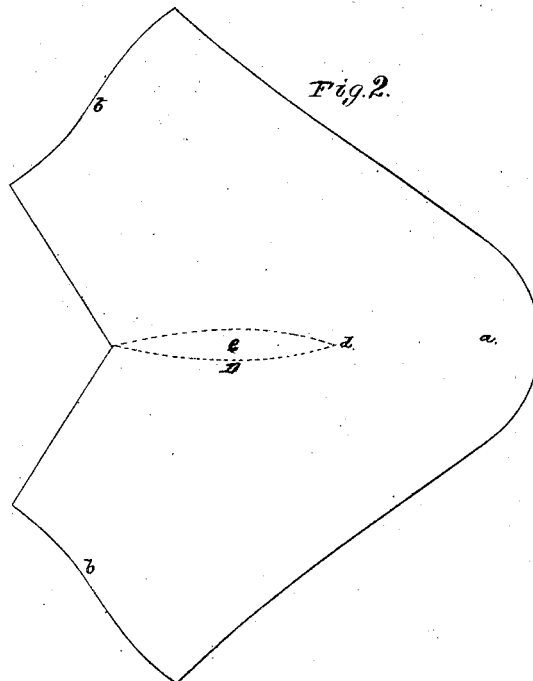
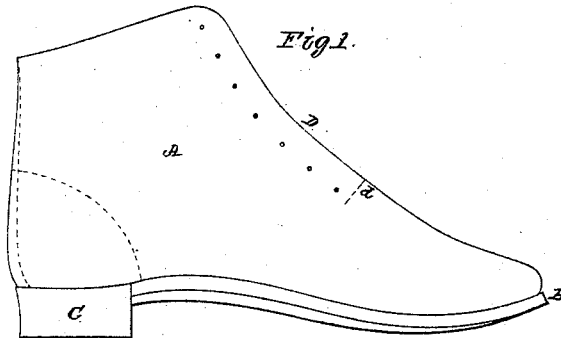


C. E. TYLER.  
Improvement in Shoes.

No. 114,067.

Patented April 25, 1871.



Witnesses

M. H. Hall

Ch. W. Hale

C. E. Tyler

by his attorney

M. H. Hall

# United States Patent Office.

CHARLES E. TYLER, OF GEORGETOWN, MASSACHUSETTS.

Letters Patent No. 114,067, dated April 25, 1871.

## IMPROVEMENT IN SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all to whom these presents may come :*

Be it known that I, CHARLES E. TYLER, of Georgetown, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Brogans, or what is termed by the trade as "Plow-Shoes;" and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1. denotes a side elevation of a brogan constructed in accordance with my invention.

Figure 2 is a representation of the "upper" of the brogan as developed on a plane surface, or as it appears when cut from a skin or piece of leather.

Figure 3 is a side view of the upper as heretofore cut, showing the extra piece required in order to produce the requisite shape.

The nature of my invention consists in a peculiar mode of cutting and forming the upper of a brogan, whereby the same may be made of a single piece of leather and with but a single seam extending up the back of the heel; my invention involving not only a novel "cut," but the crimping of the front or toe portion of the upper in order to give it the proper form and graceful outline required.

Heretofore manufacturers of brogans of this class of heavy work, in order to get rid of the objectionable side seams and obtain the desired form for the instep portion, have been obliged to form the upper in two pieces. This not only produces an extra seam to abrade the foot of the wearer and injure the appearance of the article, but also increases the cost thereof.

My invention obviates all these defects, and enables the manufacturer to produce an easy-fitting, neat, and substantial substitute.

In fig. 1 of the said drawing—

A denotes the upper;

B, the sole; and

C, the heel of a brogan made in accordance with my improvement.

In carrying out my invention I cut from a "cow-

hide" or other suitable kind of leather, and by means of a die or pattern, the blank or piece to constitute the upper of the brogan.

This blank or piece is of the peculiar shape shown in fig. 2, in which *a* denotes the vamp or front portion and *b b* the quarters or heel portion.

After the blank has been cut or stamped from the hide or piece of leather, the front or toe end is to be dampened and drawn over a block or former of the proper shape and crimped, in order to give the desired curvature to the vamp below the bottom *d* of the lacing-slit D.

After the blank has become dry or "set," it is removed from the former and the part *e*, to form the lacing opening, is next cut or stamped out to give the proper shape to the instep. Next the blank is folded together in the line of the lacing-opening, the portions *b b* brought together and "closed" or united by a line of sewing in the usual manner.

As all the remaining operations of finishing the brogan do not differ from those ordinarily employed, no further description of them is deemed necessary.

Having described my invention,

What I claim is—

1. The improved brogan or heavy high-quartered shoe, having its "upper" formed of a single piece of leather, shaped and connected in manner as described, the said upper having the front or toe portion thereof crimped in order to give the desired curve or contour, as set forth.

2. An upper formed of a single piece of heavy leather, suitable for the manufacture of the class of coarse high-quartered shoes known as brogans or plow-shoes, when the front or toe portion of said upper is crimped, as and for the purpose specified.

CHARLES E. TYLER.

Witnesses:

F. P. HALE,

F. C. HALE.