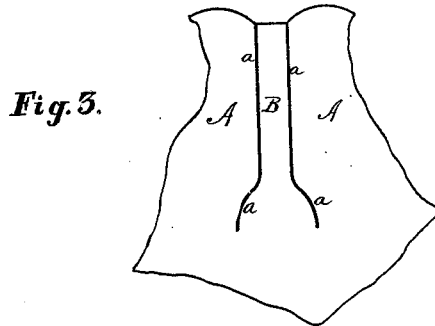
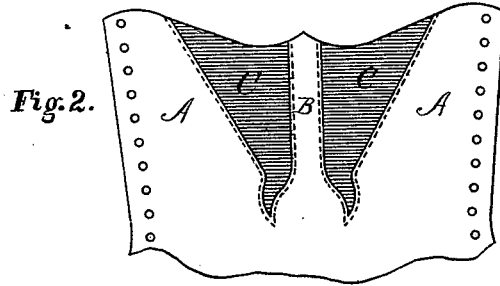
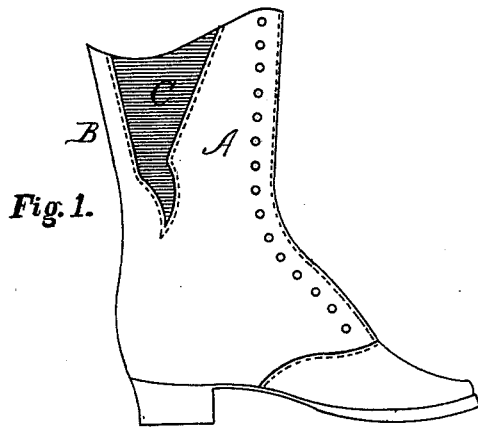


T. J. GREENWOOD.  
Shoe.

No. 203,030.

Patented April 30, 1878.



Witnesses  
Forde R. Smith  
Andrew Cass

By

Thos J. Greenwood  
Munday & Evans, his

Inventor

Attorneys

# UNITED STATES PATENT OFFICE.

THOMAS J. GREENWOOD, OF WARREN, ILLINOIS.

## IMPROVEMENT IN SHOES.

Specification forming part of Letters Patent No. **203,030**, dated April 30, 1878; application filed August 13, 1877.

*To all whom it may concern:*

Be it known that I, THOMAS J. GREENWOOD, of Warren, in the county of Jo Daviess and State of Illinois, have invented certain Improvements in Shoes, of which the following is a specification:

In the accompanying drawings, which form a part of this specification, Figure 1 represents a side elevation of my improved shoe. Fig. 2 shows a portion of the blank from which that part of the shoe to which my improvement relates is constructed, and Fig. 3 is a partial view of the same before cutting and spreading.

Like letters of reference indicate like parts wherever used in said drawings.

In order that others skilled in the art may construct my shoe, I will describe in detail the manner of making the same.

My present invention relates to a modification upon the seamless-back shoe shown in the patent granted to me on the 15th of May, 1877; and its object is identical with that of the previous invention.

In said patent the blank from which the quarters are formed is divided centrally by vertical and diverging side lines, in such manner that there is formed between the quarters a back tongue, extending upwardly a portion of the distance, and the quarters are spread apart by the insertion of a piece between them in the cut thus made. I now modify this construction by dividing the blank from the top downward upon two lines at opposite sides of the center, and near thereto, thus forming between the quarters an upwardly-extending back tongue, reaching to the top of the shoe, and I insert between this tongue and each of the quarters a filling-piece, which will have the desired spreading action.

By this construction the back is rendered practically seamless, and the horizontal seam shown in my said patent at the top of the tongue is done away with.

These, as well as the other features of my invention, will be fully understood from said drawings, wherein A A are the quarters formed from a single blank, which is severed along the lines *a a*, as shown in Fig. 3, thus being formed between the quarters the before-described tongue B. After being thus severed the tongue and the quarters are spread apart, and gores C inserted in each of the openings and stitched to the severed edges. In this manner shape is imparted to the seamless back of the shoe.

The lines *a a*, and consequently the gores, do not extend below, and preferably should not come quite to the curve of the heel, as thereby the danger to the stitching from the frequent bending of the leather at that place is obviated.

In lieu of the two gores, a single filling extending from the farther side of the opening in one quarter to the farther side of the opening in the other quarter may be inserted behind the tongue and accomplish the same result, as will be obvious.

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

1. The shoe having the quarters A and the back tongue B extending upward to the top of the shoe, all formed from a single piece of leather, and with a gore, C, inserted between the tongue and each of the quarters, substantially as specified.

2. The quarters A, having the back tongue B extending to the top, formed from a continuous blank by cutting along the lines *a a* upon opposite sides of the center and adjacent thereto, substantially as set forth.

THOMAS J. GREENWOOD.

Witnesses:

EDW. S. EVARTS,  
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