

SAMUEL J. SHAW.

Boot and Shoe Soles.

No. 121,969.

Patented Dec. 19, 1871.

Fig. 1.

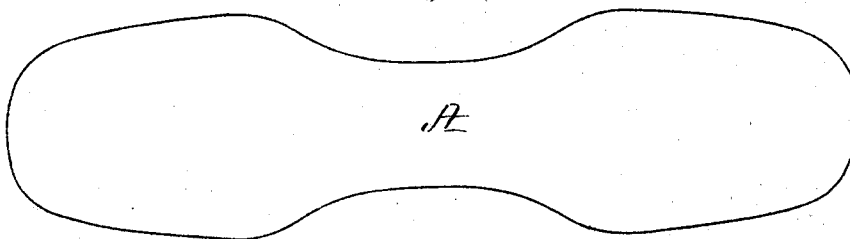


Fig. 2.

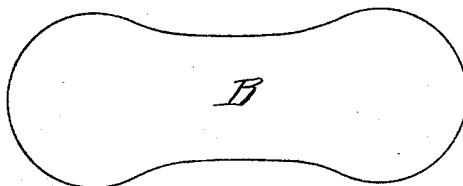


Fig. 3.

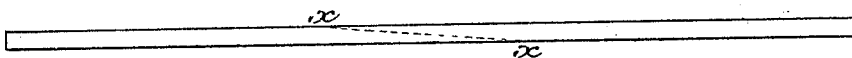
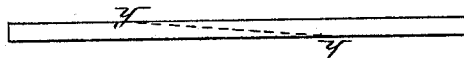


Fig. 4.



Witnesses,
W. J. Cambridge
Aliso. N. Robbins

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Per his Attorneys
Teschemacher & Stearns

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2 Sheets--Sheet 2.

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Fig. 5.

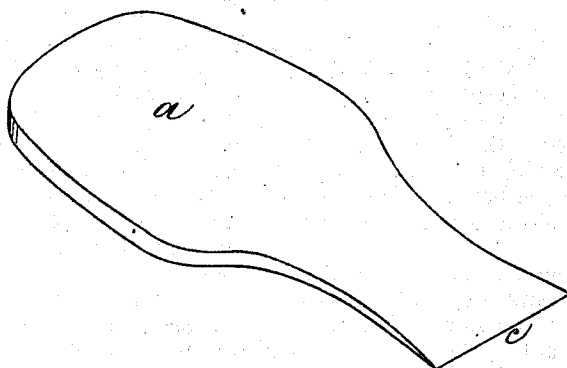


Fig. 6.

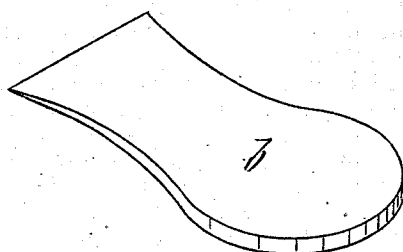
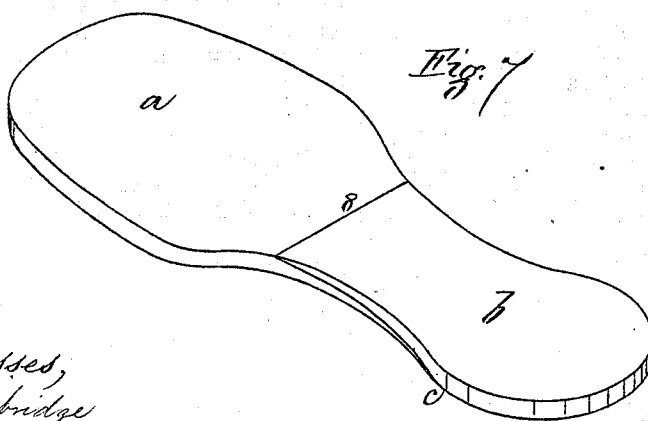


Fig. 7.



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UNITED STATES PATENT OFFICE.

SAMUEL J. SHAW, OF MARLBOROUGH, MASSACHUSETTS.

IMPROVEMENT IN MODES OF CUTTING BOOT AND SHOE SOLES.

Specification forming part of Letters Patent No. 121,969, dated December 19, 1871.

To all whom it may concern:

Be it known that I, SAMUEL J. SHAW, of Marlborough, in the county of Middlesex and State of Massachusetts, have invented an Improved Method of Cutting Soles of Boots and Shoes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing making part of this specification, in which—

Figures 1 and 2 are plans of my improved patterns for the soles of boots and shoes; Figs. 3 and 4, side elevations of the same. Fig. 5 is a perspective view of one-half of the pattern shown in Fig. 1. Fig. 6 is a perspective view of one-half of the pattern shown in Fig. 2. Fig. 7 represents the halves of the different patterns united to form an entire sole.

My invention has for its object to enable me to employ an inferior quality of leather for the heel portion of the sole of a boot or shoe; and consists in cutting out two patterns from leather of different qualities, each pattern being subsequently divided into two portions of the same size and shape; two toe portions of leather of good quality being produced from one pattern, and two heel portions of leather of inferior quality from the other pattern, so that when one toe portion and one heel portion are united a complete sole will be produced at a less cost than the ordinary sole cut from a single piece of leather of good quality, as heretofore.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing A, Fig. 1, represents a piece of leather of good quality, of such form that when cut or divided on the line *x x*, Fig. 3, two toe portions, *a*, Fig. 5, will be produced. Another piece of leather, B, Fig. 2, of inferior

quality, is cut of such form that when divided on the line *y y*, Fig. 4, two heel portions, *b*, Fig. 6, will be produced. One of the toe portions *a* and one of the heel portions *b* are now united by placing the two scarfed ends 8 together, as seen in Fig. 7, forming a complete sole of two qualities of leather, it being desirable to have the outer line *c* of the joint situated sufficiently far back to be covered by the heel of the boot or shoe.

The great advantage resulting from this method of forming a sole is that, owing to the heel portion of the sole being made of an inferior quality of leather, a considerable saving is effected while the durability of the sole is not impaired, as the entire surface exposed to wear is composed of leather of the same quality as that of ordinary soles.

The forms of the two patterns A B are such as to admit of their being cut out of a side of leather with but little waste.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a boot or shoe sole formed by uniting, by a lap-joint in the shank, two pieces of leather of different qualities, substantially in the manner and for the purpose set forth.

2. The patterns A B, of different qualities of leather, to be divided and formed into soles, substantially in the manner and for the purpose set forth.

Witness my hand this 6th day of October, A. D. 1871.

SAMUEL J. SHAW.

Witnesses:

N. W. STEARNS,
W. J. CAMBRIDGE.

(16)