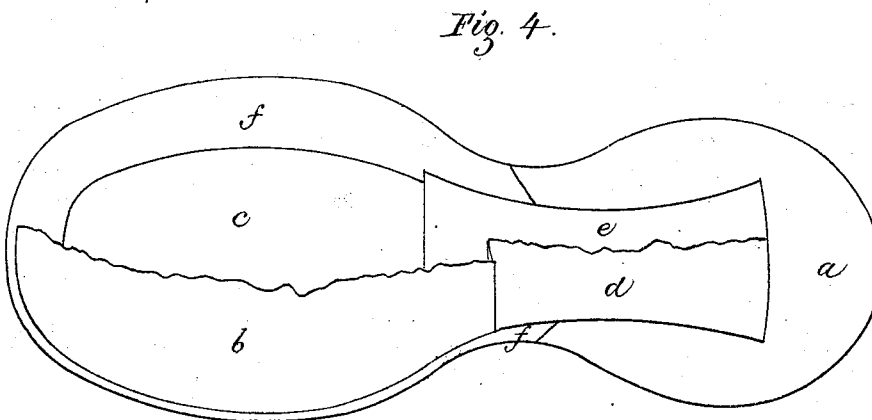
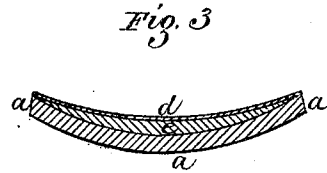
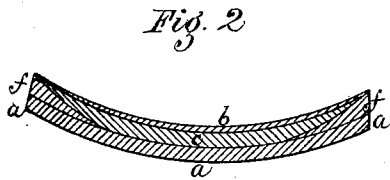
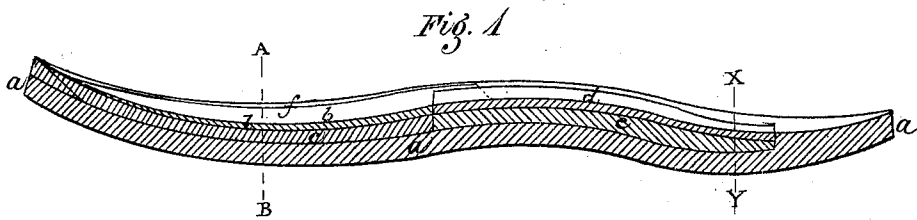


E. W. SOUTHWORTH.

Improvement in Manufacture of Boots and Shoes.

No. 130,162.

Patented Aug. 6, 1872.



Witnesses
Sam^l H. Barton
Jose F. Wheeler

Inventor
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by his atty-
Carruth D. Wright

UNITED STATES PATENT OFFICE.

EDWARD W. SOUTHWORTH, OF ASHLAND, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND GEORGE F. SEAVER, OF SAME PLACE.

IMPROVEMENT IN THE MANUFACTURE OF BOOTS AND SHOES.

Specification forming part of Letters Patent No. 130,162, dated August 6, 1872.

SPECIFICATION.

I, EDWARD W. SOUTHWORTH, of Ashland, in the county of Middlesex and State of Massachusetts, have invented certain Improvements in the Manufacture of Boots and Shoes, of which the following is a specification:

Figure 1 of the accompanying drawing is a central vertical longitudinal section. Figs. 2 and 3 are transverse vertical sections taken in the lines A B and X Y; and Fig. 4 is a top view, with portions of the several parts removed, of my invention.

The present invention relates to certain new and useful improvements in the manufacture of boots and shoes, whereby the saving of time, labor, and expense is secured. My improvements consist, mainly, in forming in the desired shape, by pressure in molds or dies or by other suitable means, the sole, welt, lining and fillings, and shank and fillings, and attaching them to each other so that they shall form one part, and be at once applied to the boot or shoe, ready to be pegged, &c., instead of attaching the soles, welts, &c., one at a time, to the boot or shoe and to each other, as heretofore.

In the drawing, *a* represents the sole of a boot or shoe, which is formed in the desired shape by pressure in a mold or die or by other suitable means, and to which is attached, by pegs or otherwise, a welt, *f*, a lining, *b*, and fillings *c*, shaped to the proper form by pressure in molds or dies or by any suitable means, and connected together. A shank, *d*, and its

fillings *e*, or a single shank, are also properly formed, by pressure or otherwise, and attached to each other and to the sole *a*. The whole of the above-mentioned parts, thus forming one piece of the required shape, is then applied to the last, and connected with the upper of the boot or shoe, thereby saving the time, trouble, and expense ordinarily required in attaching and fitting to the shape of the last one piece at a time.

The fillings may be formed in one piece with the lining or shank, or as shown; or a steel shank may be used; or a half or whole welt may be employed; or a whole double or half double sole may be used by my improved method of construction with equal facility.

Having thus described my improvements, what I claim as my invention, and desire to have secured to me by Letters Patent, is—

A sole, *a*, welt *f*, lining *b* and filling *c*, and shank *d* and its filling *e*, formed in the desired shape by pressure in molds or dies, or by other suitable means, and attached to each other so as to form one part, and to allow of its being applied to a last of a boot or shoe in one piece, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD W. SOUTHWORTH.

Witnesses:

CARROLL D. WRIGHT,
SAML. M. BARTON.