(No Model.)

H. W. SHEPARD.

COUNTER SUPPORT FOR BOOTS AND SHOES.

No. 248,616. Patented Oct. 25, 1881.

Fig. 1.

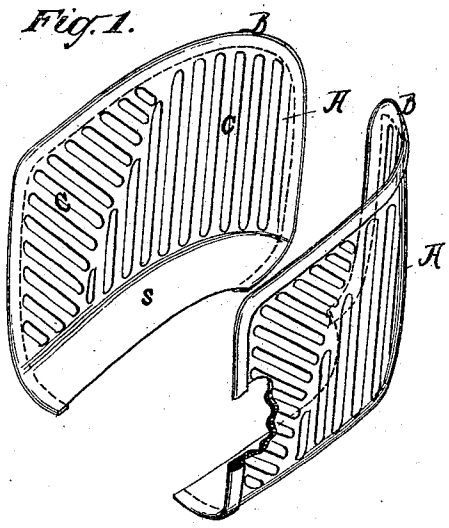
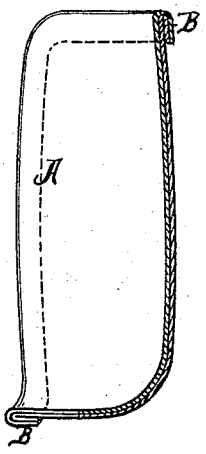


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY W. SHEPARD, OF BROOKLYN, NEW YORK.

COUNTER-SUPPORT FOR BOOTS AND SHOES.

SPECIFICATION forming part of Letters Patent No. 248,616, dated October 25, 1881.

Application filed August 24, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. SHEPARD, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Counter-Supports for Boots and Shoes, of which the following specication is a description.

This invention relates to an improvement particularly applicable to metal counter stays or supports, such as are described and claimed in reissued Letters Patent No. 9,030 of January 6, 1880, and in the application of Levi B. Howe and Henry W. Shepard, allowed June 28, 1880; and the invention consists in making the support of two thicknesses of metal, the edge of the inner thickness being flanged or turned over the edge of the outer thickness down to the seat-flange, so that it overlaps the corresponding edge of the outer thickness and forms, after subjection to pressure, a beaded edge to the support, thereby firmly uniting the two thicknesses of metal.

In the accompanying drawings, Figure 1 is a perspective view, showing a counter-support embodying my improvements; and Fig. 2 represents a section thereof.

Similar letters of reference indicate corresponding parts in both figures.

A A in the drawings designate a counter-support composed of two thicknesses of metal, the inner thickness being a little larger than the outer thickness.

B B designate the edges of the inner thickness of metal. These edges are flanged outwardly, turned down, and pressed over the edges of the outer thickness of metal, thereby firmly uniting the two thicknesses and forming a beaded edge to the support, which materially strengthens and stiffens it where it is most likely to become worn or bent by use. In practice any suitable mechanism which will flange these edges outwardly and turn them down, as described, may be employed.

C C designate a series of transverse and vertical corrugations in the sides of the support, which extend through the several thicknesses of metal, and may be made in any suitable manner. These corrugations do not form part of my invention, and they may be omitted, if desired.

S designates the seat-flange of the support. This seat-flange is to be provided with suitable slots or openings for pegs or nails.

The chief object and advantage of this invention is that counter-supports made of successive layers or thicknesses of metal, constructed as described, can be made from light tin, such as I. C. tin-plate, and will be just as strong and answer the purpose just as well as counter-supports made from heavy sheet metal, such as No. 18 sheet metal.

The counter-supports heretofore made under the Letters Patent above referred to have been made from that kind of tin-plate known in the market as "four-cross tin," which costs fully three times more than I. C. tin.

Moreover, it is well known that there is an enormous quantity of scrap I. C. tin, which, on account of the small size of the pieces, cannot be advantageously utilized for manufacturing purposes, and consequently this scrap can be purchased at a very low price, costing fully two hundred per cent. less than I. C. tin-plate.

Heretofore I. C. tin could not be used in the manufacture of counter-supports, as it was too light and too flexible for this purpose; but by my invention it can be used and the scrap-tin referred to can be utilized, thereby effecting a very great saving in the first cost of material without depreciating the efficiency of the articles.

I am aware that counter-supports have heretofore been made in one piece composed of a sheet of metal and a layer of cloth or leather fastened together; but I do not seek to claim this construction.

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

As an improved manufacture, scrap metal heel-stiffeners or counter-supports formed of two thicknesses of light flexible metal, such as scrap or waste I. C. tin, bound together by the edge of one piece overlapped upon the other, substantially as shown.

The foregoing description of my invention signed by me this 1st day of July, A. D. 1880.

HENRY W. SHEPARD.

Witnesses:

ERNEST C. WEBB,

H. B. HAIGH.