

H. ROGERS.

Manufacture of Counter-Stiffener for Boots
and Shoes.

No. 159,220.

Patented Jan. 26, 1875.

Fig 1.

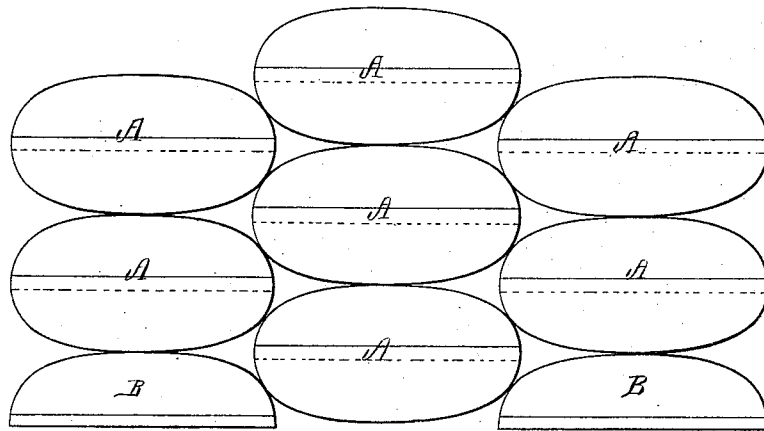


Fig 2.



Fig 3.

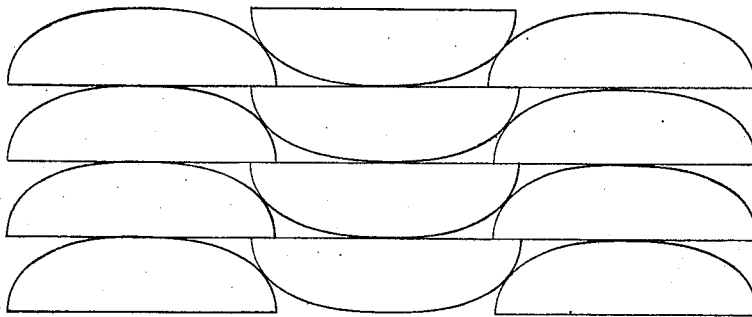


Fig 4.

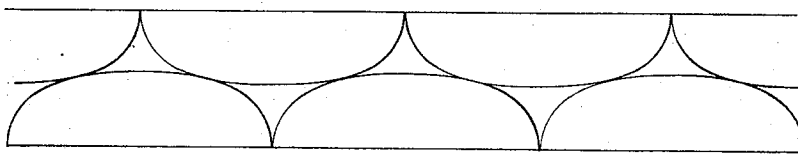
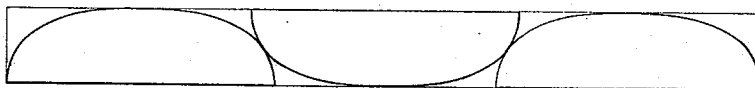


Fig 5.



Witnesses.
S. W. Piper.
L. N. Holman.

Horner Rogers
by his attorney
R. M. Eddy

UNITED STATES PATENT OFFICE

HOMER ROGERS, OF SUDBURY, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND STEPHEN MOORE, OF SAME PLACE.

IMPROVEMENT IN THE MANUFACTURE OF COUNTER-STIFFENERS FOR BOOTS AND SHOES.

Specification forming part of Letters Patent No. **159,220**, dated January 26, 1875; application filed
December 9, 1874.

To all whom it may concern:

Be it known that I, HOMER ROGERS, of Sudbury, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in the Manufacture of Counters for Boots or Shoes from a Sheet of Leather, or other proper material; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes the method of separating a sheet into duplex counters, and Fig. 2 an end view of all of such duplex counters, such view exhibiting the mode of separating it into two counters with beveled straight edges. Figs. 3, 4, and 5 denote the common mode of cutting a strip or sheet into counters of semi-elliptical shape.

In the making of counters or heel-stiffeners, it is desirable to have the curved edge of each lift of full thickness, or nearly so, and the straight edge or chord beveled.

The object of my invention is to obtain such a counter with a considerable saving of stock, in comparison to the modes of dicing shown in Figs. 3, 4, and 5, in which the counters are diced or cut as semi-ellipses, and in order to scarf them at their straight edges each has to be beveled so as to lose a strip of material triangular in cross-section.

In carrying out my invention, I dice or cut the strip or series of double counters or el-

lipses, commencing at one edge with ellipses and semi-ellipses, alternating with each other, as shown at B A B. These ellipses and semi-ellipses are tangential, or touch at their curved edges, in manner as shown, the spaces between them serving to indicate all the waste.

After having so cut duplex counters or ellipses from the sheet of leather, I split obliquely each of them along its longer diameter, in manner as shown at S S in Fig. 2, the medial line of the plane of cut being coincident with the central line *a* of the ellipse. In this way I save with reference to the old methods a strip on each counter as long as the base of the counter, and having a section or right-angled triangle having a hypotenuse equal to the line S S, all of which is a very material saving, comparatively speaking.

I claim—

The above-described improved method of forming counters or heel-stiffeners, it consisting in first separating the sheet of stock into ellipses or duplex forms A, and next splitting each of them obliquely through its longer axis or medial line, all substantially as shown and explained.

HOMER ROGERS.

Witnesses:

JERVIS E. HOW,
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