

O. S. SQUIRE.
METAL EXTENSION LAST.

No. 24,830.

Patented July 19, 1859.

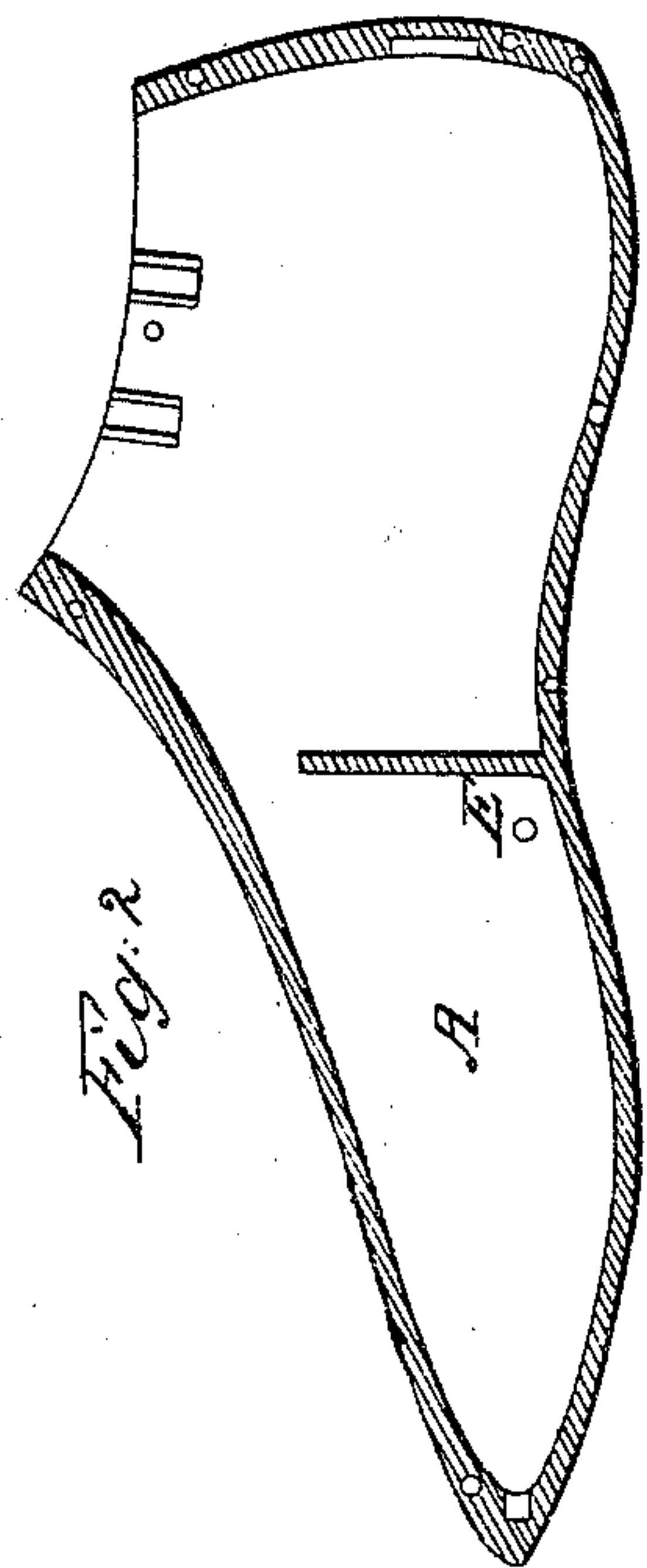


Fig. 2

Fig. 1

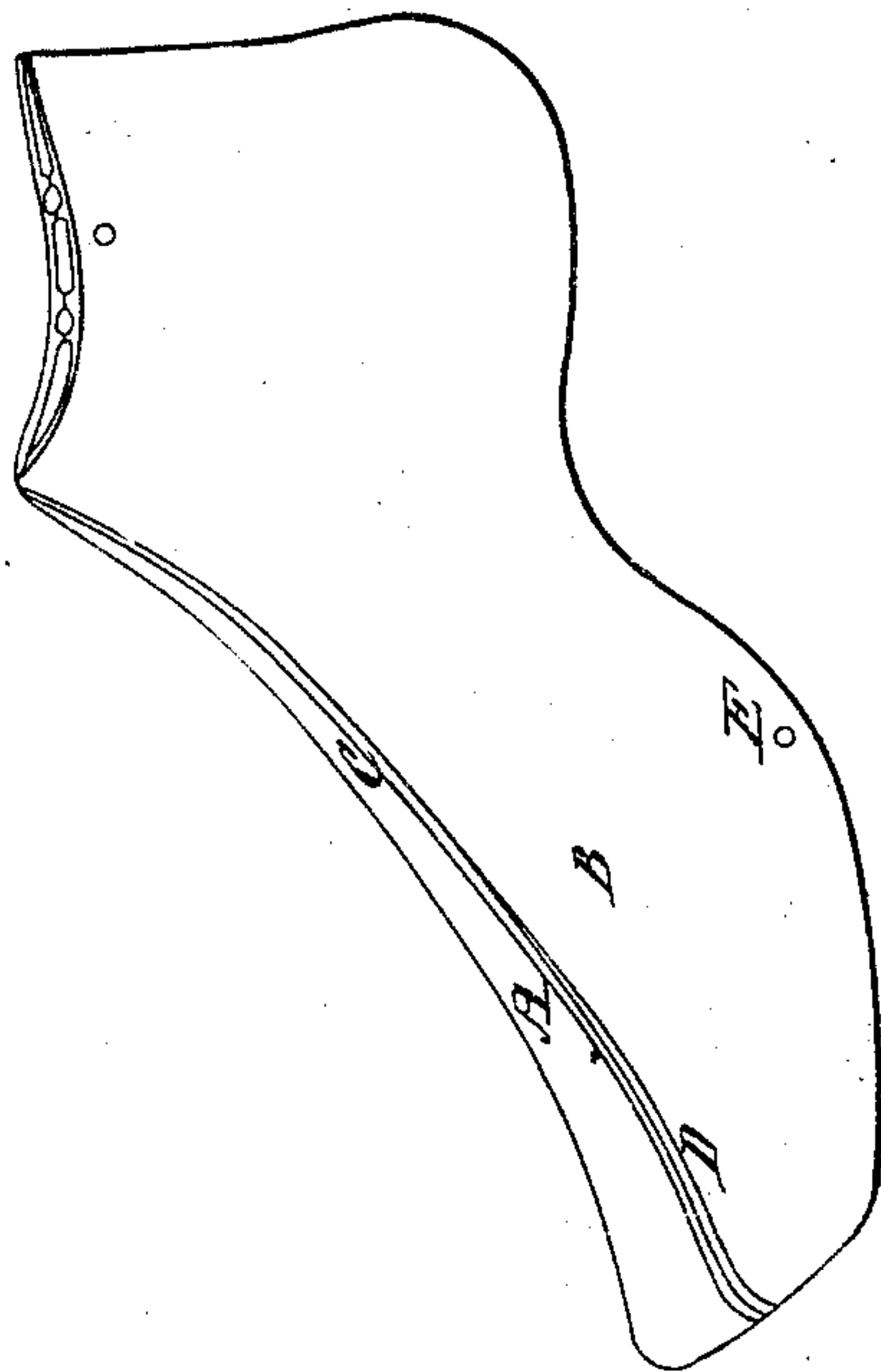
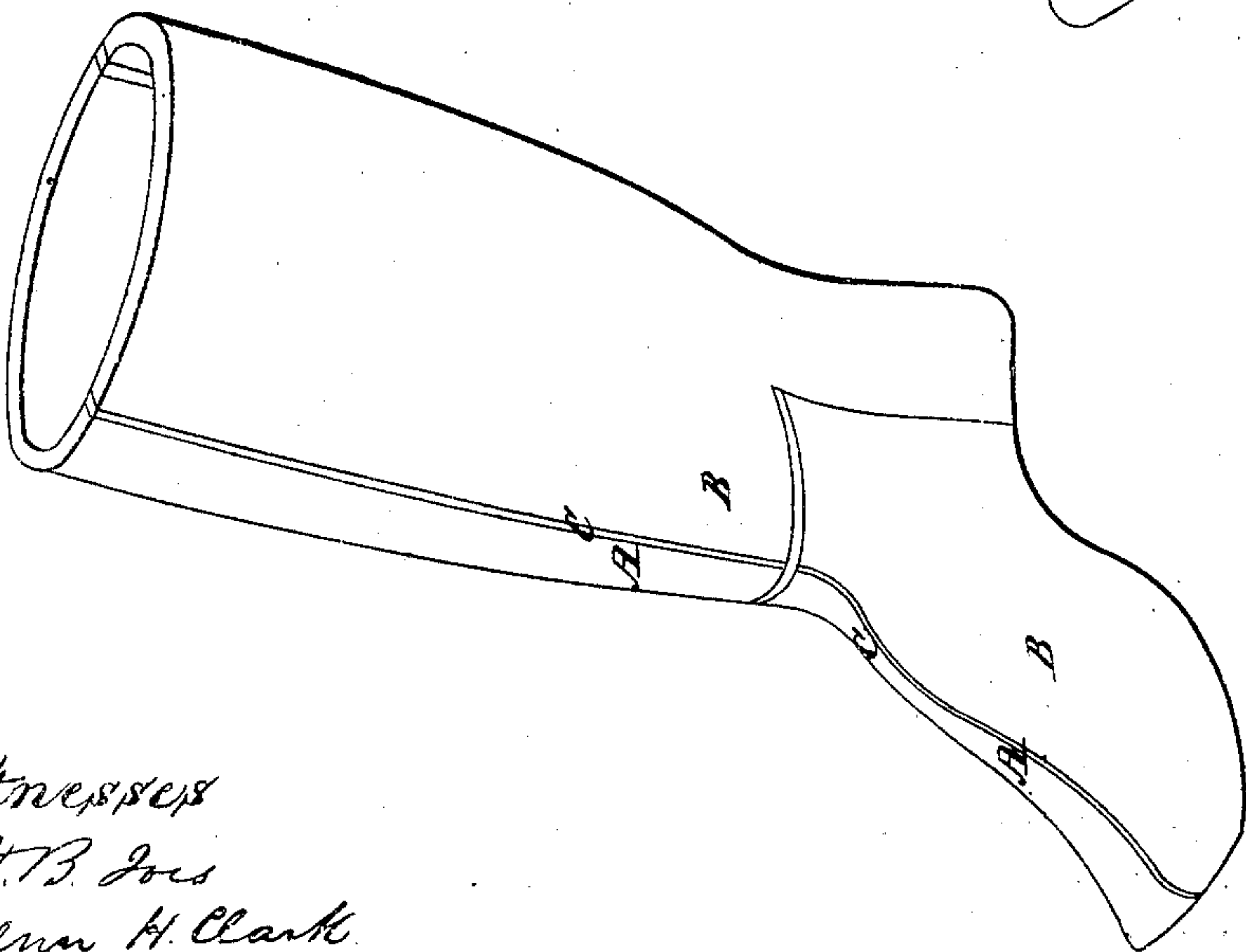


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

OBED S. SQUIRE, OF NORTH HAVEN, CONNECTICUT.

LAST.

Specification of Letters Patent No. 24,830, dated July 19, 1859.

To all whom it may concern:

Be it known that I, OBED S. SQUIRE, of North Haven, in the county of New Haven and State of Connecticut, have invented a
5 new and useful Metal Extension-Last; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters of reference
10 marked thereon.

Figure 1 represents the metal last in perspective when the two halves are bolted together showing the metal strip in place for extending the same. Fig. 2 is a side
15 view of one of the sections. Fig. 3 represents the adaptation of strips to the parts of a boot-tree.

It is found necessary in the manufacture of india-rubber boots and shoes to make
20 them of a variety of shapes without altering their length. This has heretofore been accomplished by placing tabs on the last where the shoe is to be made larger, but great difficulty is experienced, besides the
25 loss of time in adapting these tabs to the last and fixing them thereto, so as to give the requisite shape to the shoe when finished. These objections I obviate in a simple and efficient manner at the same time the last
30 can be extended or narrowed according to the width of the boot or shoe to be made thereon, at the same time the length will be preserved; thus several widths of boot or

shoe can be manufactured upon the same last. For this purpose the last for shoes, or
35 boot-tree for high boots are cast in two halves or longitudinal sections A, B, one of which is shown by Fig. 2. Between these sections are placed strips of metal or other suitable material, which are made tapering
40 so as to give a symmetry of shape to the shoe. These strips C may be of the same width throughout and placed upon each other in thin layers until the required width is attained, or various thicknesses of strips
45 may be prepared and only one of these used when the shoe is to be of the same width from toe to heel. When it is necessary to extend the toe part of the shoe only, a tapering strip D, like a wedge is used, and in
50 the same manner with the heel or instep. When these strips are thus arranged the two halves of the last are brought together and bolted by a screw bolt E, and the last thus prepared is ready for the manufacture
55 of shoes thereon.

What I claim as new and desire to secure by Letters Patent, is,

The arrangement and combination of the longitudinal sections A, B, strips C, D, and
60 bolt E, as and for the purposes herein shown and described.

OBED S. SQUIRE.

Witnesses:

H. B. IVES,
WILSON H. CLARK.