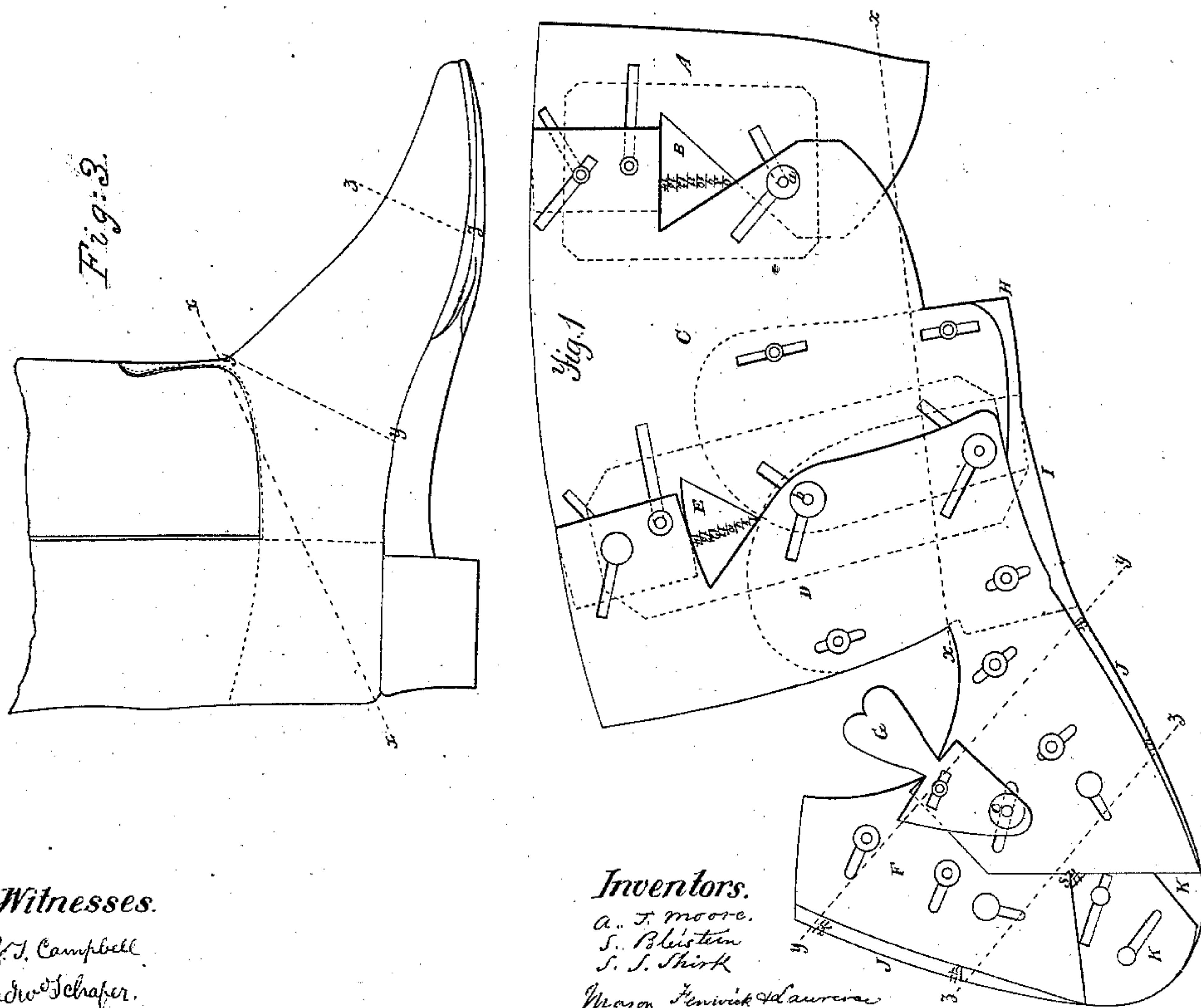
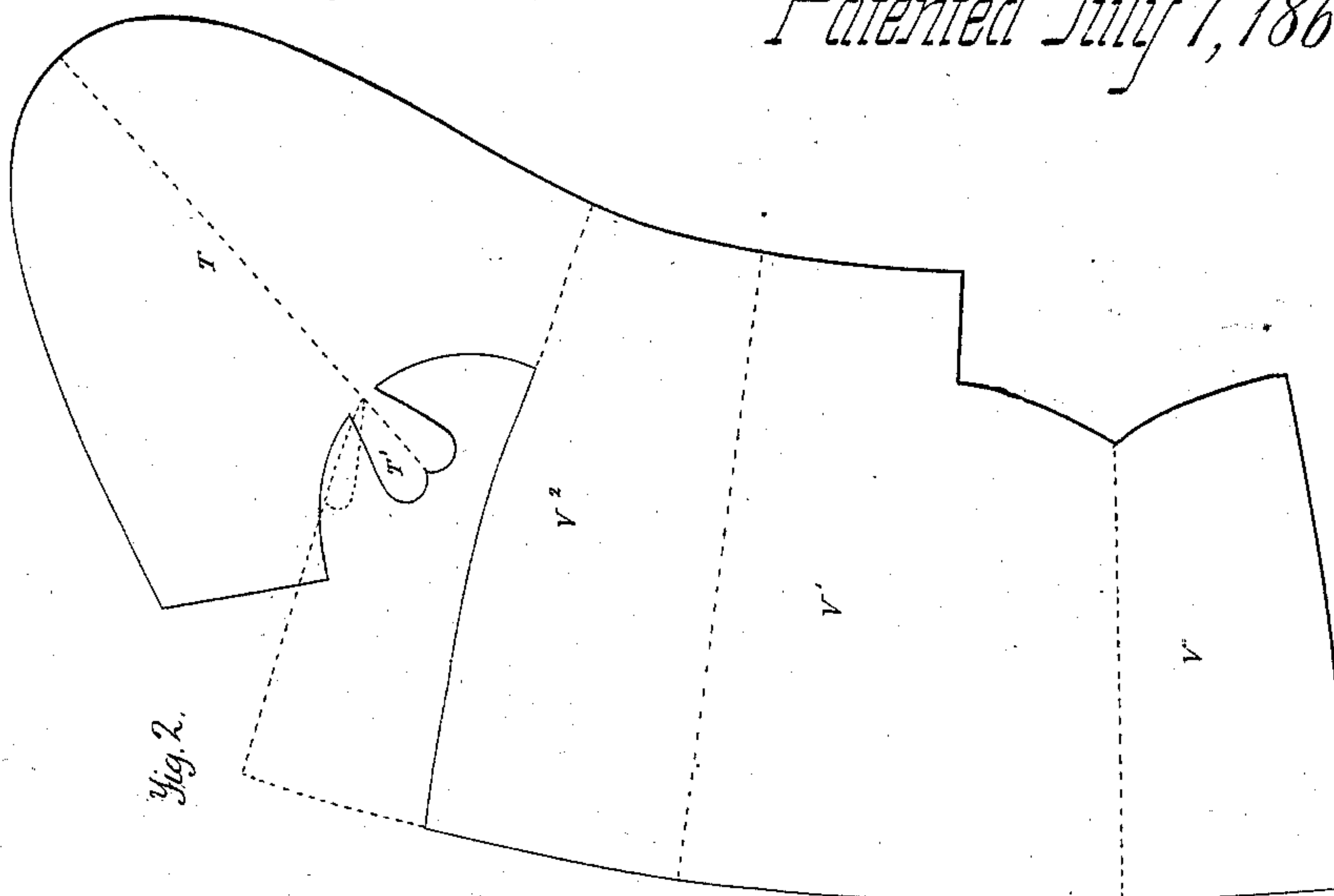


Moore, Bleistein & Shirk,

Shoemakers' Tool,

N^o 79,676,

Patented July 7, 1868:



Witnesses.

*R. J. Campbell
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Inventors.

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United States Patent Office.

ANDREW J. MOORE, SAMUEL BLEISTEIN, AND SAMUEL S. SHIRK, OF LEBANON, PENNSYLVANIA.

Letters Patent No. 79,676, dated July 7, 1868.

IMPROVED METHOD OF CUTTING BOOTS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, ANDREW J. MOORE, SAMUEL BLEISTEIN, and SAMUEL S. SHIRK, of Lebanon, in the county of Lebanon, and State of Pennsylvania, have invented a new and improved Method of Cutting Boots; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a view of the upper side of the improved pattern.

Figure 2 shows the shape of the leather when cut and ready to be made up.

Figure 3 is a side view of a boot made up by my improved method.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to a new and improved method of marking out and cutting the uppers and legs of boots, whereby an adjustable pattern can be employed, having marked permanently upon it scales of figures, corresponding to the several measures required to be taken to fit a boot to the foot, so that, for any given measure, the pattern can be adjusted and set, and, when so set, it will give the required size and shape for marking off and cutting, from one piece of leather or other material, the entire upper and leg of a boot in one piece, as will be hereinafter described.

To enable others skilled in the art to understand our invention, we will describe its construction and operation.

One of the objects of our invention is to so shape a piece of leather, or other material suitable for making the upper and leg of a boot, then when such piece is folded, as will be hereinafter shown, it will form the entire upper and leg of a boot, thus requiring less stitching, and affording greater strength and durability, because there will be very few seams to give out. Another object of our invention is to provide a pattern, which can be readily adjusted, to give the required shape and size for draughting and cutting the entire upper and leg of a boot of one piece of material.

In the accompanying drawings, fig. 1 represents the pattern, by means of which the work is marked out. This pattern consists of thin plates of metal or other material, properly shaped and put together, so as to serve collectively as a guide to a pencil or knife, in marking or cutting out the work. The parts A and C are united to a back plate, B, by means of pins passing through oblong slots, as shown, one of which pins is screw-cut, and provided with a thumb-screw, *a*, by means of which the two plates A and C can be adjusted and set for any required size of the front part of the leg and instep-seam, as shown at V V¹, in fig. 2.

The plates C, H, I, D, and E are also united by pins passing through oblong slots, and provided with a clamping-nut, *b*, by means of which these several plates can be secured rigidly together when adjusted, for giving the required size of the back portion V² of the leg. The plates J J, K K, F, and S are attached to the front extension of the plate D, and adapted for giving the required size and shape of the front portion T of the upper.

These plates last named, with a small plate, G, are suitably slotted, as shown, and provided with an adjusting-screw nut, *c*.

It will be seen, by reference to the drawing, fig. 1, that the several plates are so connected together that, when the nuts *a*, *b*, and *c* are loosened, the pattern can be made larger or smaller, in every direction, by adjusting the several plates; and, by providing the back plates, B, E, and S, and also the front plates, J J, with properly-graduated scales, any given size and shape of pattern can be made.

In taking a measure of the foot, the first measure is around the heel and instep, as indicated by red line *x x* in fig. 3. This measure corresponds to the parts crossed by red line *x x* in fig. 2, and will be indicated by the figures which are exposed upon plates B and E.

The next measures are at Y Y, Z Z, fig. 3, and indicated in fig. 1 by red lines Y Y, Z Z. These measures are indicated upon the plates J, J, and S by the figures and graduated marks thereon.

Fig. 2 is intended to represent the shape of a piece of leather, cut by the pattern, before this piece is folded; and the dotted lines on this piece indicate the creases or points where it is to be folded.

The parts V, V, and T are brought together by folding said piece of leather so that there will be a seam extending down one side of the leg of the boot, and intersecting another seam, which extends around the instep to the opposite side of the boot, and which terminates at a short seam, which extends down to the lower edge of the upper or the sole of the boot.

It will be seen that a piece, T', is formed at the centre of the upper, T, which piece covers the seam formed by uniting the lower front edge of the leg-portion to the upper, and not only makes a neat finish, but it strengthens the seam at this point.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The pattern, composed of the several parts herein shown, said parts being constructed, and arranged, and operating as herein described, for producing the upper and leg of a boot in the form shown in fig. 2 of the drawings, or in an equivalent form, as set forth.
2. The piece G, in combination with the pieces D F of the pattern, substantially as described.
3. A boot-upper and leg, T T', V V¹ V², made in one piece, produced as described.

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Witnesses:

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TOBIAS REINOCHE, Jr.