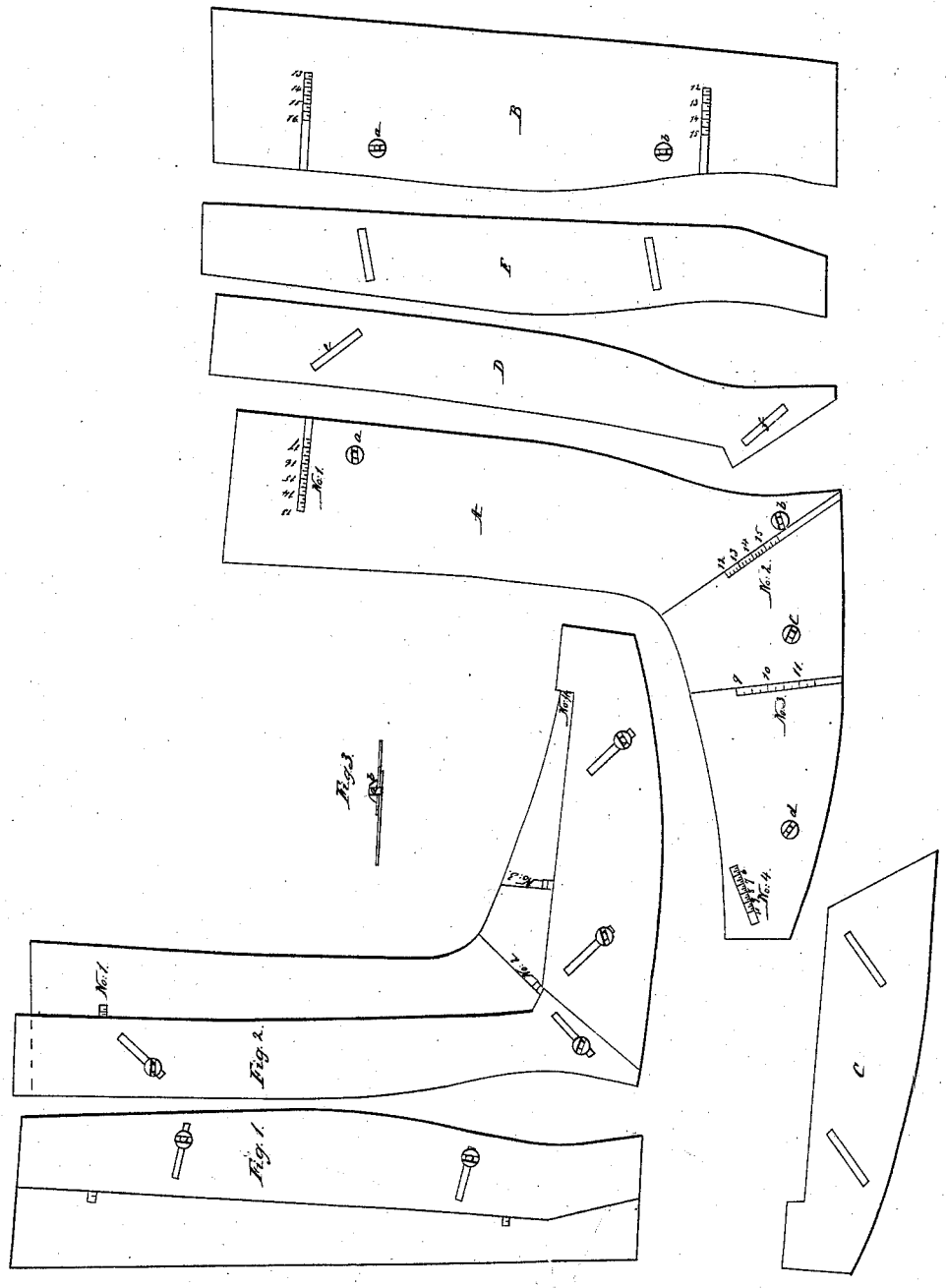
T. Cranage,

Boot Tool,

No. 3481. Patented Mar. 13, 1844.



UNITED STATES PATENT OFFICE.

THOMAS CRANAGE, OF WARREN, OHIO.

CUTTING BOOTS.

Specification of Letters Patent No. 3,481, dated March 13, 1844.

To all whom it may concern:

Be it known that I, THOMAS CRANAGE, of Warren, in the county of Trumbull and State of Ohio, have invented a new and useful machine for cutting boots in a more expeditious manner than has hitherto been done; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which forms a part of this specification, in which—

Figure 1, represents the pattern for the back of the boot; Fig. 2, that of the front of the boot; Fig. 3 shows a section by which the connection of the slides or extension parts D and E are connected with A and B. A, B, C, D and E are the detached parts.

The nature of my invention consists in forming the patterns with extension pieces so as to be used for any size that may be required and is constructed as follows: The several parts are formed of sheet brass or other suitable metal according to the shapes of the pieces to be cut. (The scale of the drawing is three fourths the full size.) The piece A, is the pattern for a boot front in which four pins or screws *a*, *b*, *c*, *d*, are fixed on which nuts are represented in the drawing. Fig. 3, represents a section showing the elevation of one of the screws (*a*) the nut same figure is lettered *b*. The piece A has also marked on it near each of the screws a scale, Nos. 1 and 2 of which are on the upright part and graduated to one fourth of an inch to the inch for giving the measure of the width of the calf and heel. No. 3 on the horizontal part is for giving the size of the instep and is graduated half an inch to the inch. No. 4 gives the length of the foot according to the measurement on the size stick. Along the back part of the piece A there is a slide piece D, which slides back and forth upon said piece A; this is a thin plate of metal and is about half the width of the piece A; the back edge of this plate is shaped precisely like A, and its lower end is mitered off at an angle of about 45° on the inside so as to fit another slide hereafter named when brought up close; two diagonal slots *e*, and *f*, are also cut in it which receive the screws *a* and *b* through them by which the two plates are secured together in any desired position, the scales 1 and 2 serving as guides for their adjustment and the nuts (*b* see Fig. 3) fastening them. C is a slide similarly attached below and is shaped like the lower section of the horizontal or foot part of plate A; otherwise its construction and attachment are like D. It is adjusted by scales Nos. 3 and 4.

Fig. 2, shows the parts connected as above described. B is the back of a boot pattern in which are two screws *a* and *b* on which a slide E works, all constructed similar to those above described and having a scale at top and bottom graduated like 1 and 2 on A. (Fig. 1 shows these pieces connected.)

Having thus fully described my invention I wish it to be understood that I do not claim the extension of a pattern by sliding one piece upon another fastened together by nuts and screws but

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

The combination of the slides with the plates A and B having graduated scales thereon in the way described the whole being constructed and arranged in the manner and for the purpose herein set forth.

THOS. CRANAGE.

Witnesses:
J. J. GREENOUGH,
T. C. DONN.