

(No Model.)

J. F. ATWOOD.

INSTRUMENT FOR SETTING BUTTONS.

No. 298,155.

Patented May 6, 1884.

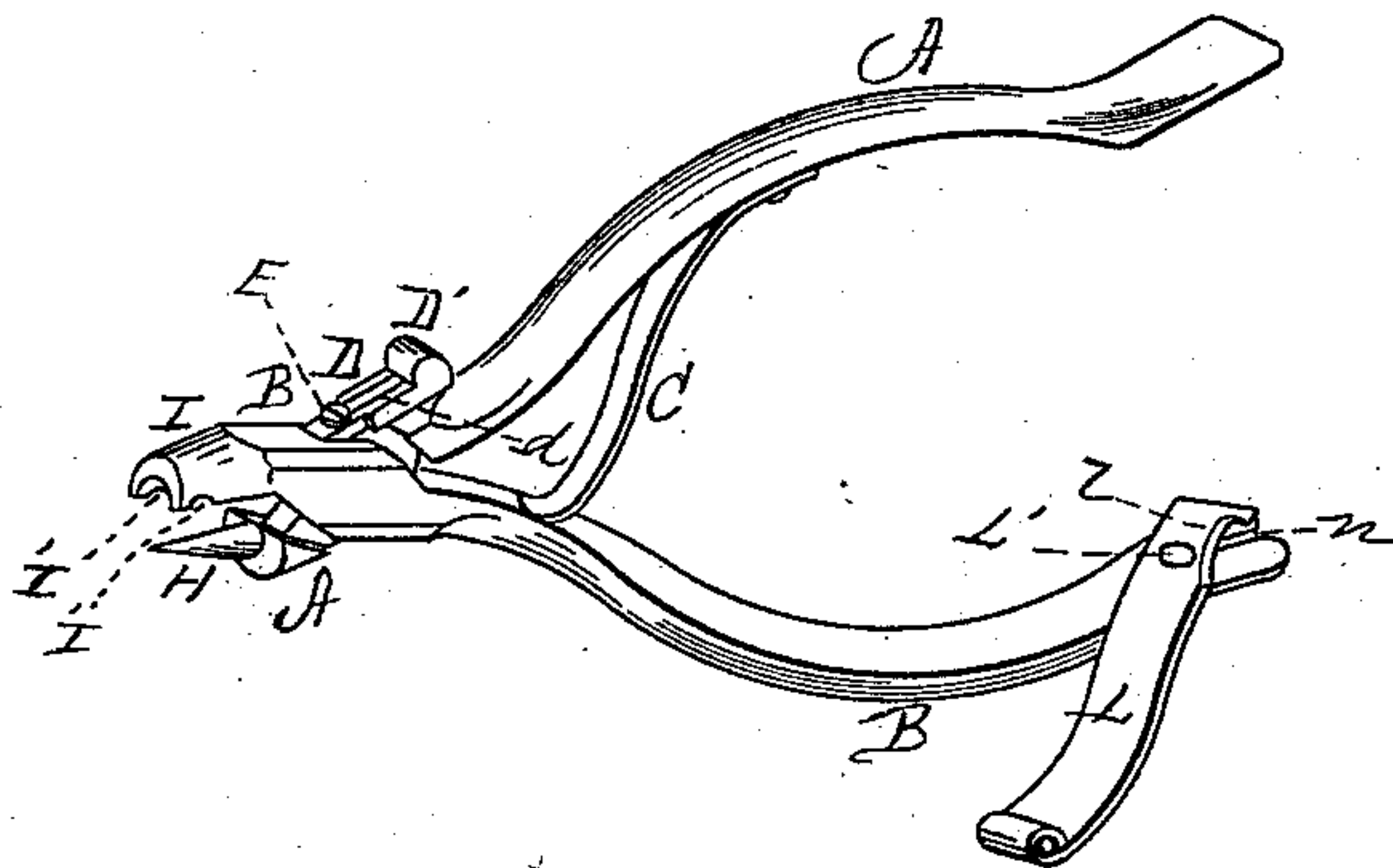


Fig. 1.

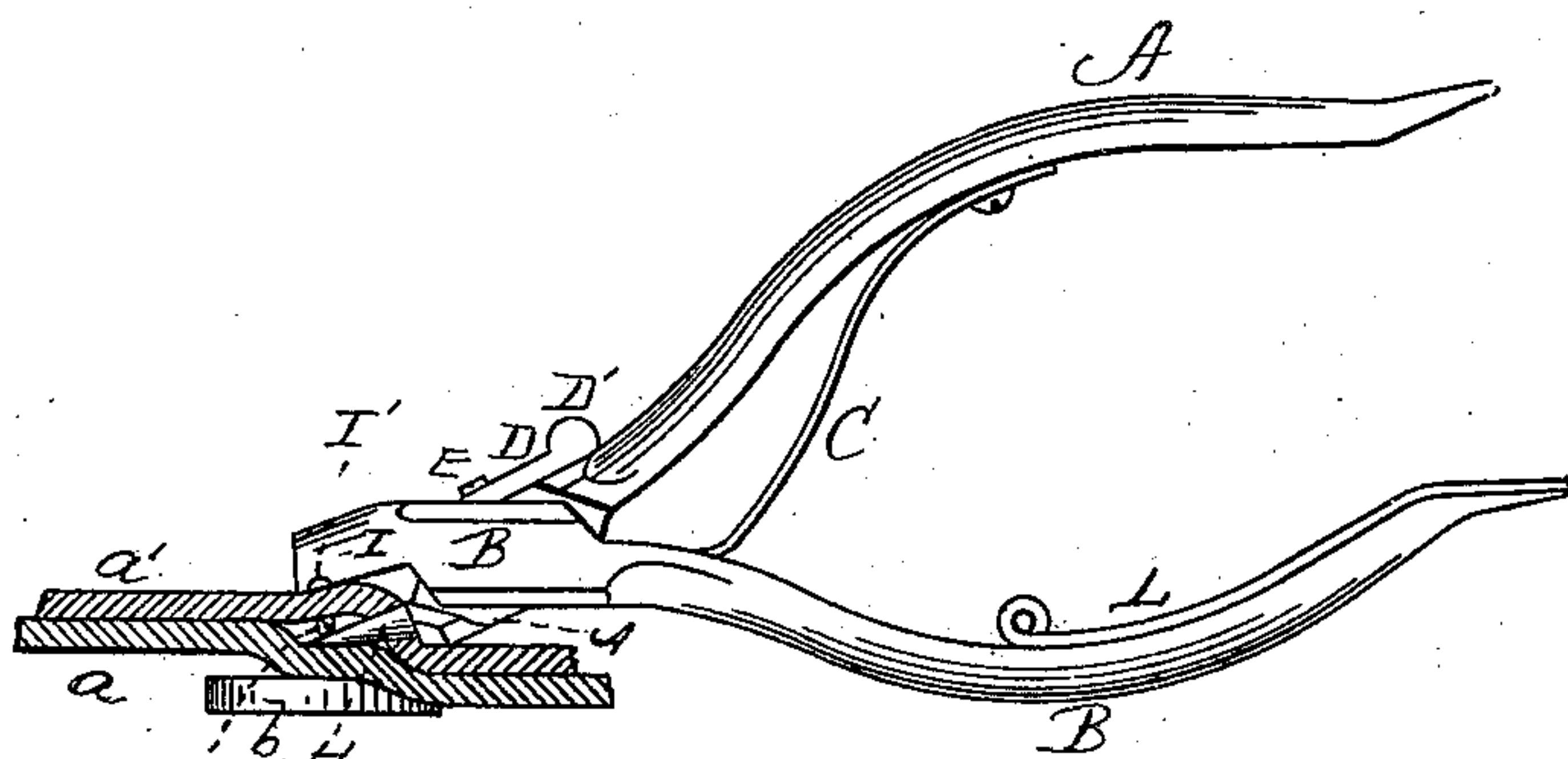


Fig. 2.

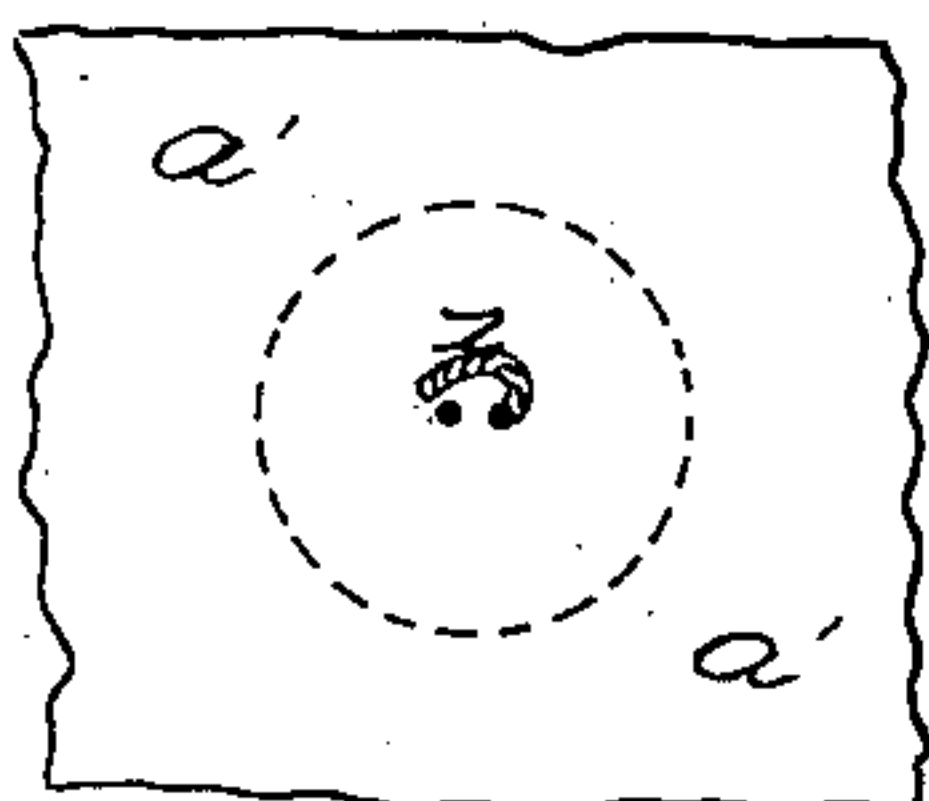


Fig. 4.

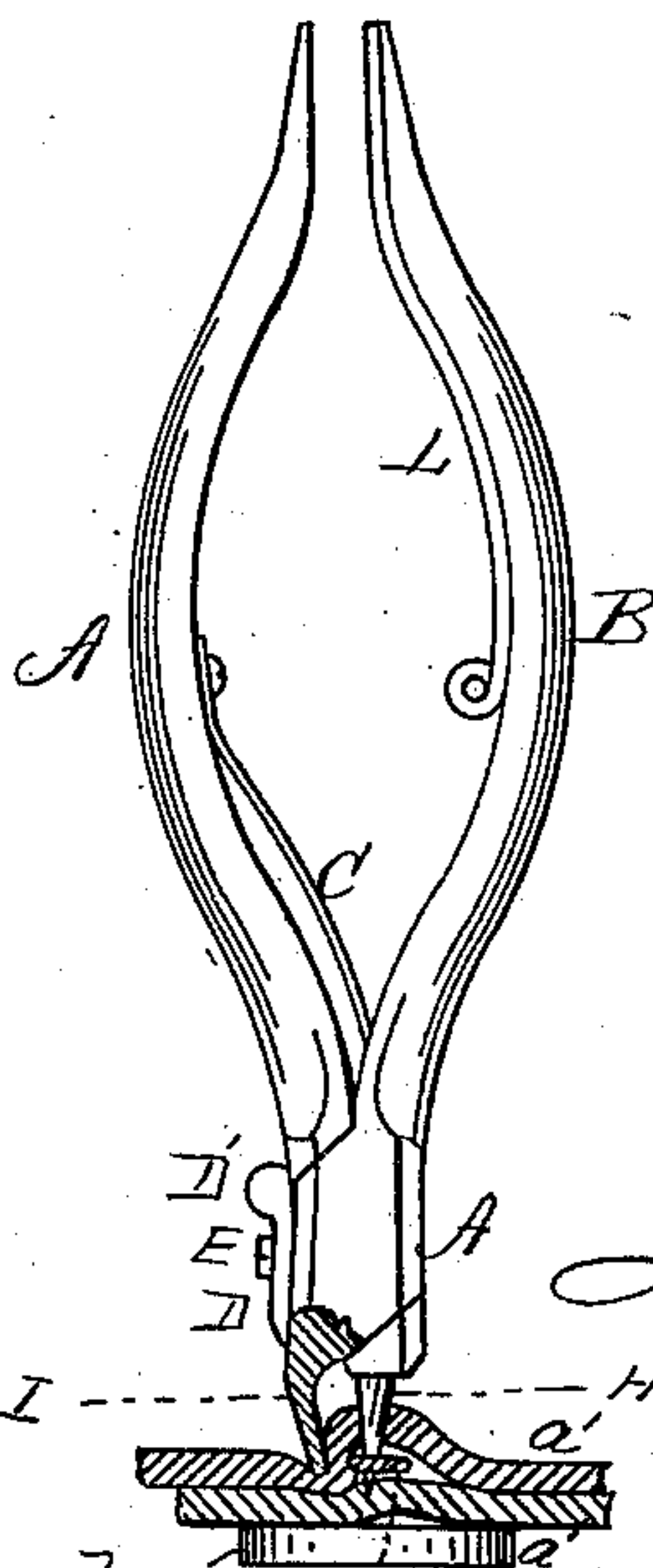


Fig. 3.

WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES F. ATWOOD, OF BOSTON, MASSACHUSETTS.

## INSTRUMENT FOR SETTING BUTTONS.

SPECIFICATION forming part of Letters Patent No. 298,155, dated May 6, 1884.

Application filed October 27, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES F. ATWOOD, of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful

5 Improvements in Button-Setting Instruments, of which the following is a specification.

This instrument is for use in connection with attaching buttons to fabrics, &c., by means of wire or metallic fastenings; and it is especially adapted for use in connection with the method described in Letters Patent granted to me October 2, 1883, and numbered 285,781.

10 In the drawings in said Letters Patent there is shown in Fig. 5, and described in lines 54 to 60, inclusive, in the specification, the end of the wire fastening twisted and bent back upon itself in order to save the fabric from injury. It is mainly for the purpose of producing this bend or turn in the wire while it is between two thicknesses of cloth that I have invented the herein-described device.

15 In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a perspective view of my device. Figs. 2 and 3 are views of the instrument in different positions assumed when in use. Fig. 4 is a view of the upper side of the under of two thicknesses of cloth to which a button has been applied by the method and wire fastening shown and described in the Letters Patent above referred to, and which fastening has been manipulated by the device herein described.

20 A and B represent two jaws pivoted together after the manner of plier-jaws, and C is the ordinary spring for spreading the jaws apart.

For locking the jaws when closed I provide a slide, D, having a longitudinal slot, *d*, secured to the jaw A by a screw, E. This slide is placed on the jaw A, near the point where it passes through the jaw B—i. e., near its pivotal point. By pushing on the thumb-piece D' thereon the slide is forced over the edge of the jaw B and the jaws are locked, as in Fig. 3.

25 The wire fastening shown and described in said Letters Patent having been applied to the button and used for attaching the same in accordance with the method described in said

Letters Patent, the end of the wire is left straight between the two thicknesses, as shown in Fig. 4 of said patent. The jaw A terminates in a conical needle, H, and the jaw B in a concave former, I, preferably provided with the notches I'. The conical needle H is forced through the under thickness, *a'*, of the fabric and under the portion of the wire fastening *z*, between the thicknesses *a a'*, transversely to said fastening, as shown in Fig. 2. The instrument is then closed and locked, its handles elevated, and a half-turn given to it, which will bring the instrument into the position shown in Fig. 3, and produce the bend or loop desired in the fastening, and shown in Figs. 3 and 4. *b* represents the button.

A portion of the former I is represented in Fig. 3 as broken out, the better to illustrate the operation of the device.

It is not absolutely necessary that the device shall be locked during any part of the operation; but there must be sufficient force used to allow the former I to shape the wire.

A knife-edge, *l*, is formed on the blade L, pivoted at L' to one of the handles, so that a wire placed in the slot *n* of the handle will be cut off by a movement of the blade across the slot. This blade is of the same shape as the handle, and is secured to the inner side thereof, so that it will not interfere with the safe handling of the instrument.

The blade is useful in trimming off any projecting wire.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a button-setting instrument, the combination of two jaws pivoted together, one of said jaws terminating in a needle adapted to be inserted in fabric and forced under a wire button-fastening therein or thereunder, and the other jaw adapted to grasp said fabric and wire fastening and hold them firmly against said needle, substantially as and for the purpose set forth.

2. In a button-setting instrument, the combination of two jaws pivoted together, one of said jaws being provided with the conical needle H and the other with a suitable former, I, substantially as and for the purpose specified.



3. In a button-setting instrument, the combination of the jaw A, provided with the conical needle H, and the jaw B, provided with the former I, having the notches I', substantially as and for the purpose described.

5 4. The combination, with the handle B, of the blade L, said blade being pivoted to and of the same general shape as said handle, and

provided with the knife-edge l, and said handle being provided with the slot n, substantially as and for the purpose set forth.

JAMES F. ATWOOD.

Witnesses:

HENRY W. WILLIAMS,  
JOSEPH ISHBAUGH.