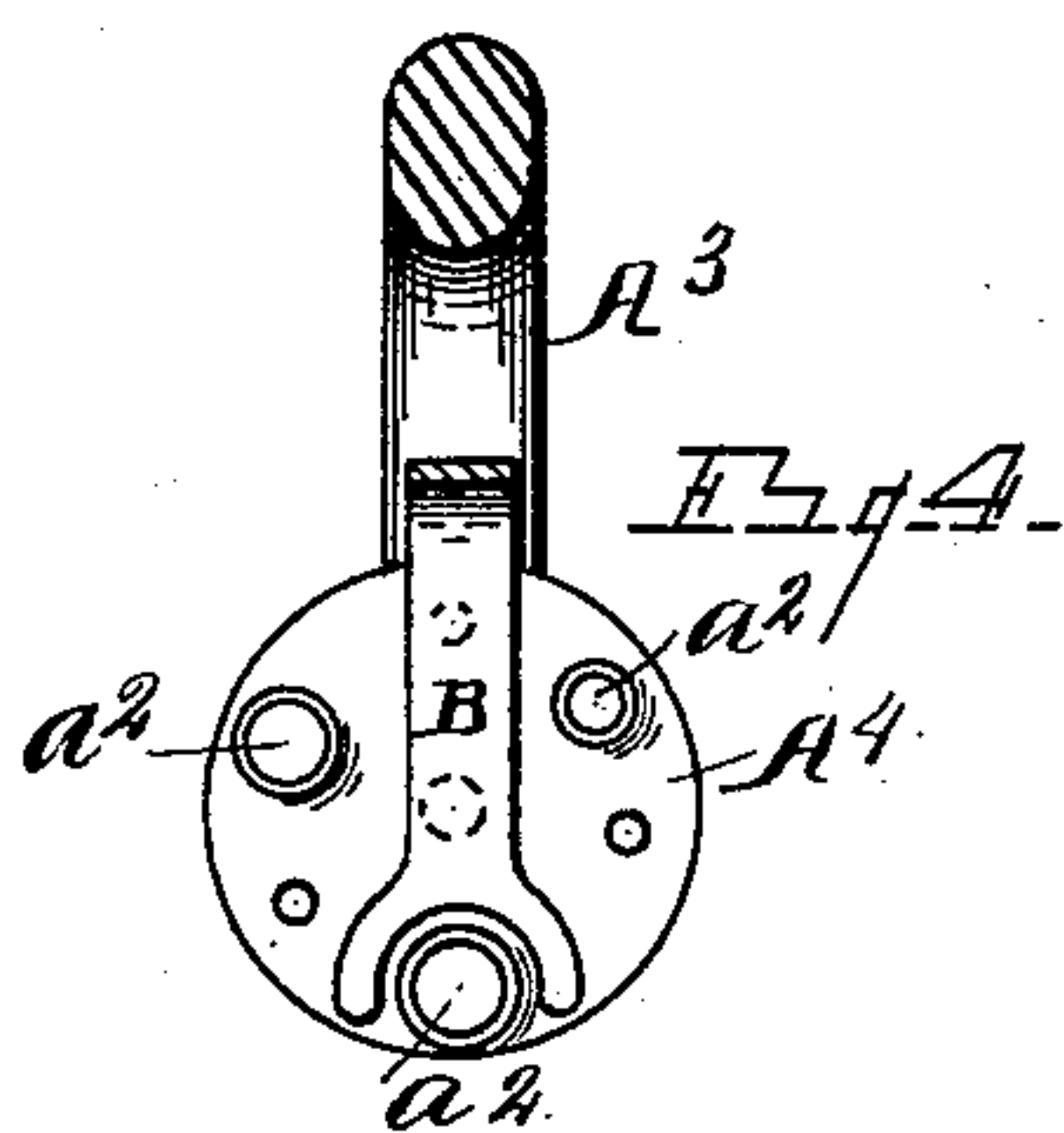
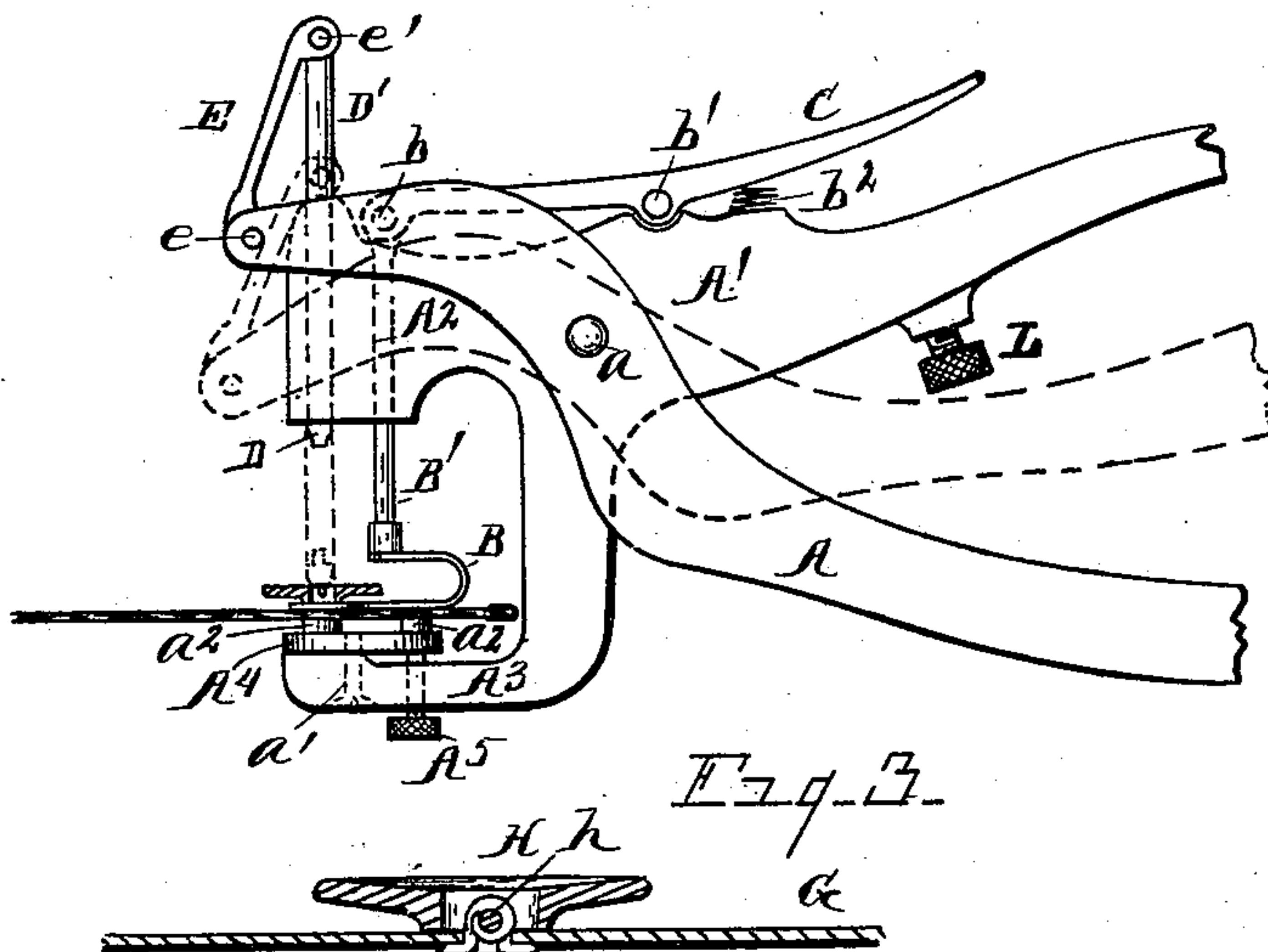
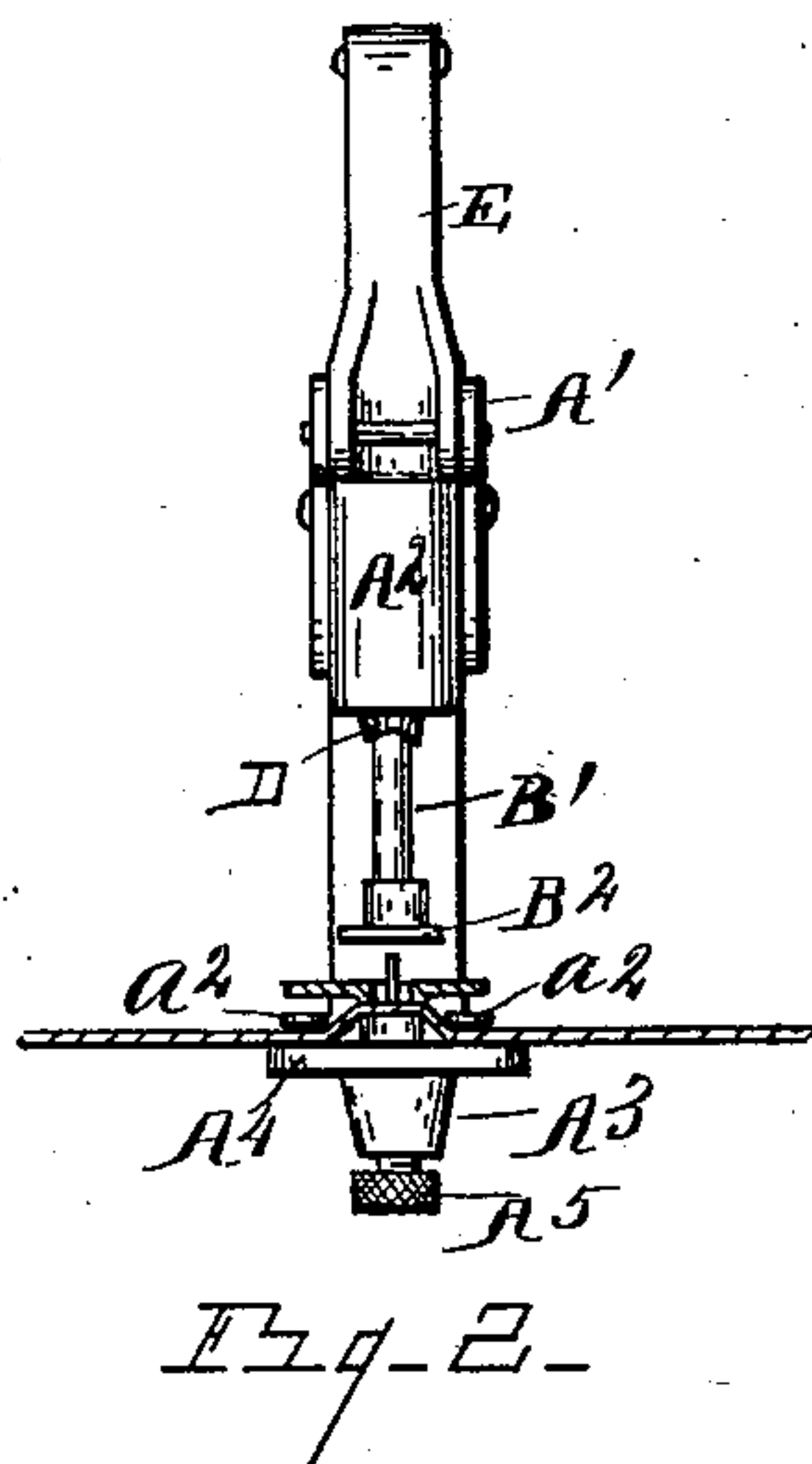
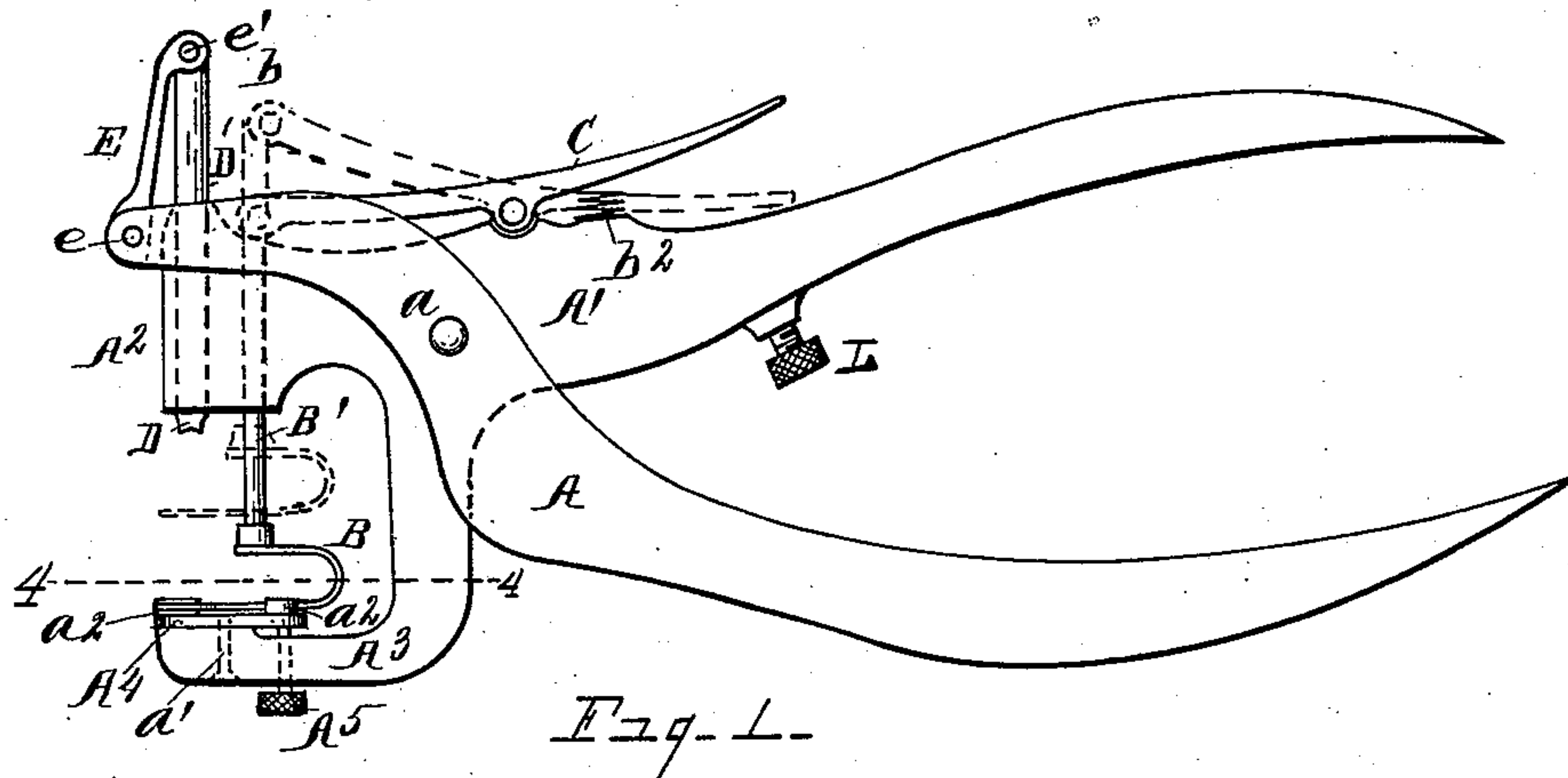


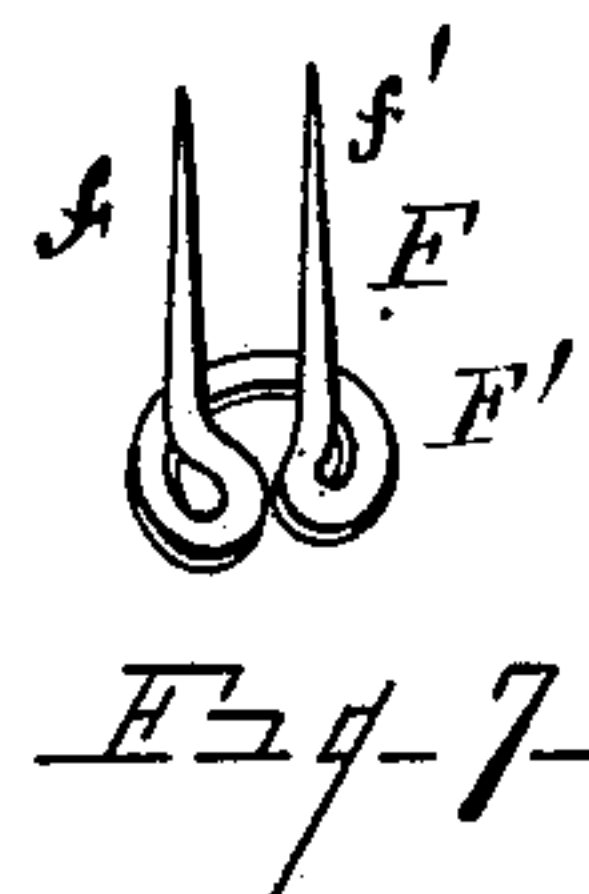
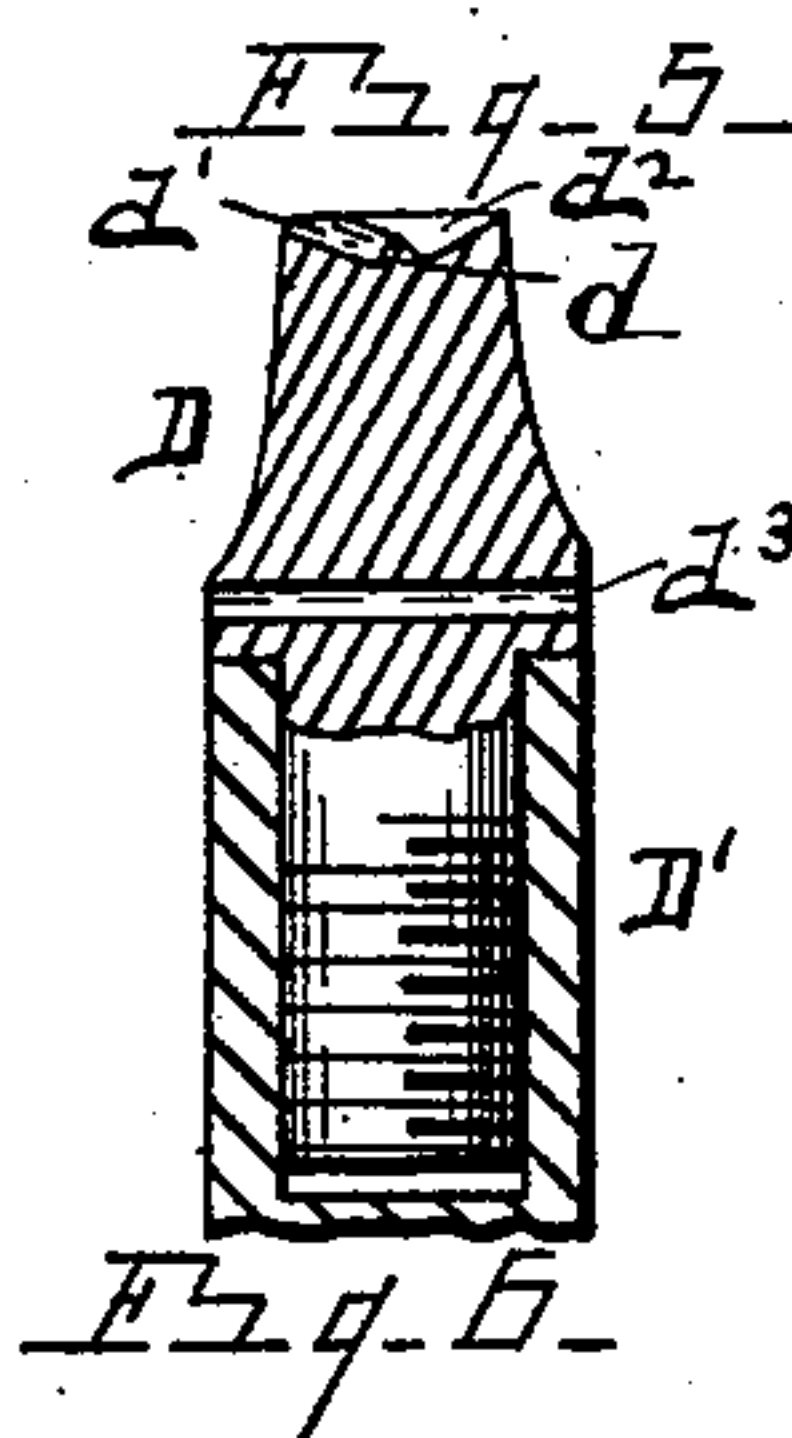
2 Sheets—Sheet 1.

No. 564,337.

Patented July 21, 1896.



WITNESSES



INVENTOR

O. B. Basnizer got.
M. A. Martin.

Franklin S. McKenny
By his Attorney
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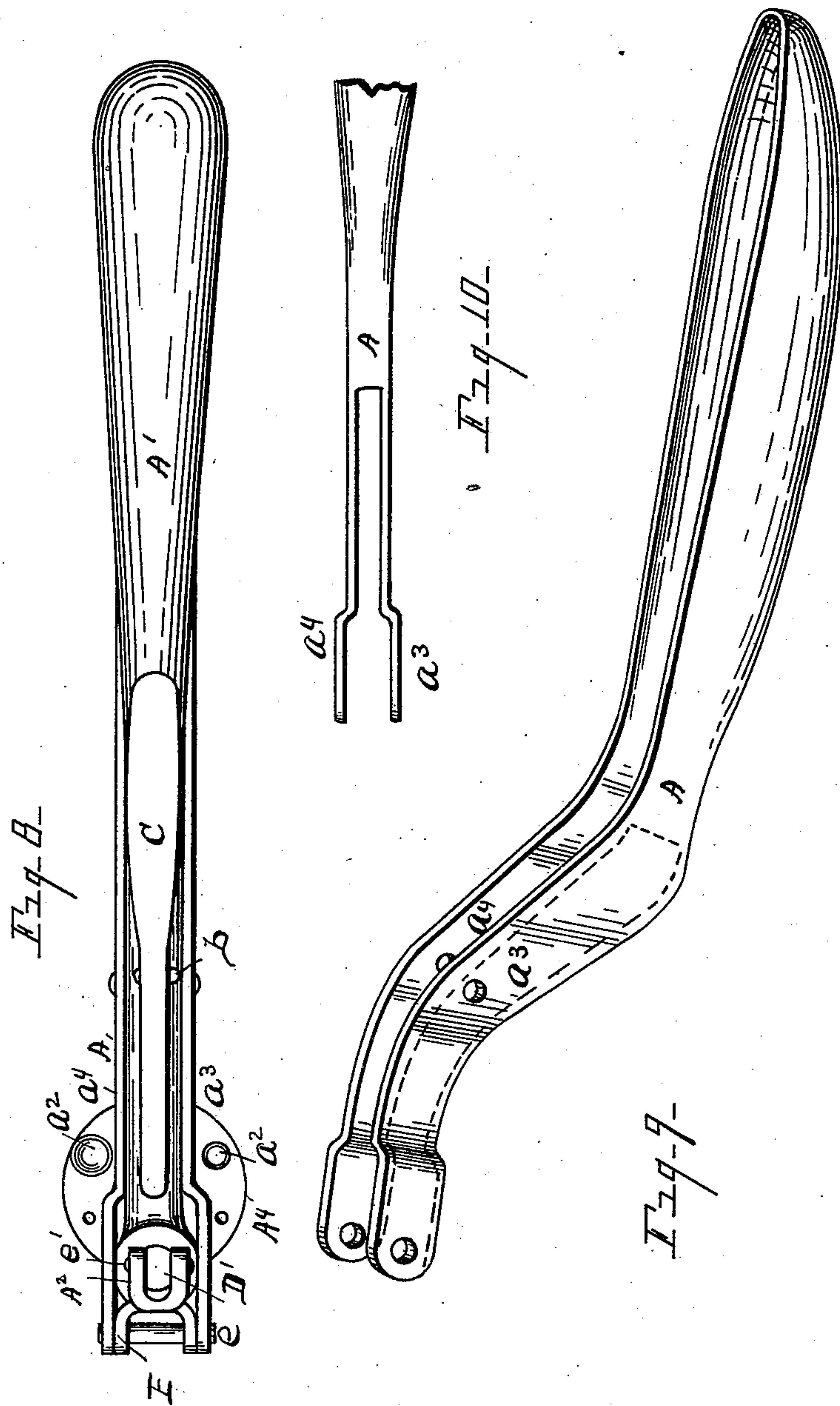
(No Model.)

2 Sheets—Sheet 2.

F. S. McKENNEY.
HAND BUTTON SETTING INSTRUMENT.

No. 564,337.

Patented July 21, 1896.



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UNITED STATES PATENT OFFICE.

FRANKLIN S. MCKENNEY, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF
TO J. M. LONGYEAR, OF MARQUETTE, MICHIGAN.

HAND BUTTON-SETTING INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 564,337, dated July 21, 1896.

Application filed July 9, 1894. Serial No. 516,923. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN S. MCKENNEY, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Hand Button-Setting Instruments; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to a certain new and useful improvement in a button-setting instrument, the same, as shown herewith, being more particularly designed and adapted as a hand implement to be employed with a fastening, the fastening herein shown being the subject-matter of a separate application, although I do not limit myself to the employment of this fastening alone in the use of this implement.

More especially my present purpose is to provide a machine of simple and economical construction, and one which may be readily operated.

The instrument forming the subject-matter of this application is adapted for applying a fastening to a great variety of styles of buttons, one which may be used with any kind of a button provided with an attaching shank, bar, loop, or eye.

My invention consists of the construction, combination, and arrangement of devices and appliances hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a view of my device in side elevation. Fig. 2 is a front end view. Fig. 3 is a view similar to Fig. 1, but showing the parts in different positions. Fig. 4 is a view on the line 4 4, Fig. 1. Fig. 5 illustrates the method of attaching a button by the use of my improved setting instrument. Fig. 6 is a view of a setting-die, partly in section; and Fig. 7 is a view of a fastening which may be employed in the use of my improved button-setting instrument. Fig. 8 is a plan view of the instrument; Fig. 9, a view in perspective of

the die-operating jaw. Fig. 10 is a partial plan view of the same.

I carry out my invention as follows:

A and A' represent two jaws pivotally connected, as at *a*. The jaw A' is constructed with an upper arm A² and a lower arm A³. The lower arm A³ is provided with a die-plate A⁴, said die-plate preferably having a horizontally-rotatable engagement with the arm A³, as by means of a pivot-pin, (shown in dotted lines at *a'*.) The die-plate is preferably provided with a series of die-seats *a*² of different sizes to provide for the use of different-sized fastenings and different-sized dies to set fastenings.

A⁵ is a set-screw to hold the die-plate in a given position. By loosening said set-screw the die-plate may be rotated to bring any desired die into position for use.

B denotes a clamp to hold a fabric upon the die-plate upon which the buttons are to be set. This clamp is shown herewith as provided with a spindle B', extended through the arm A² of one of the jaws, its upper end being jointedly connected with a lever C, as indicated at *b*, the lever C being fulcrumed upon the jaw A', as shown at *b'*, and provided with a self-retracting spring *b*². It will readily be perceived that by grasping the lever C the clamp B may be raised into the position shown in dotted lines in Fig. 1, ready for the insertion of a fabric or garment upon the die-plate.

In the arm A² of the jaw A' is located a reciprocatory die D, the arm A² being constructed with an orifice to admit the stem of the die D. With the outer end of the jaw A is engaged a connecting rod or link E, having a jointed connection at its lower end with the jaw A, as shown at *e*, and a similar engagement at its upper end with the die D, as shown at *e'*. It will be evident that by compressing the handles of the jaws the forward end of the jaws A will be forced downward, thereby forcing the die D downward toward the die-plate.

F denotes a fastening which may be employed with the button-setting implement herewith shown and described, the same preferably having two fastening-points *f f'* and a head F.

G denotes a fabric or garment upon which a button is to be set.

H indicates a button.

In the operation of the device the fastening
5 F is passed by hand through the fabric or garment, after which the head of the fastening is seated upon a die-seat upon the die-plate A⁴. A button is then located over the points of the fastener, after which the die D
10 is forced upon said points to engage said points with the attaching portion of the button. The die D is preferably provided with a parting-ridge \bar{d} , forming side depressions \bar{d}' and \bar{d}'' , as shown in Fig. 6, to cause the
15 points of the fastening to pass by one another as they are being set. In the operation of setting the fastening the points are curled continuously about the attaching portion of the button, as indicated in Fig. 5, the button
20 herewith shown being provided with an attaching-bar h . Then by raising the die and the clamp B the instrument may be removed from the fabric or garment.

I prefer to form the jaw A with forked arms
25 α^3 and α^4 , laterally embracing the forward end of the jaw A'. The arms A² and A³ on the end of the jaw A' form practically a G-shaped head, carrying the die-seat and die. These arms A² and A³ are thus made rigid
30 and preferably integral on the jaw A', thereby preventing any liability of the swaying of the die, and being operated by the jaw A the die is always moved perpendicularly upon a fastening on the die-seat.

35 The die D is removably connected with the stem or spindle D', and for this purpose may have a screw-threaded engagement therewith and be provided with an orifice \bar{d}^3 , through which can be inserted a suitable instrument for turning the die on or off the spindle. In this manner the die is inter-
40 changeable.

L denotes an adjustable stop to govern the movement of the jaws.

What I claim as my invention is—

1. In a hand button-setting instrument, the combination of two jaws A, A' fulcrumed the one upon the other and provided with operating-handles, the jaw A' having a practically G-shaped head provided with upper and lower arms, the jaw A formed with a forked end laterally embracing said upper arm, a reciprocatory die, and die-seat, and a clamping device carried by the jaw A', a link connecting the die and the jaw A' and a lever to actuate the clamping device, substantially as set forth. 45 50 55

2. In a hand button-setting instrument, the combination of two jaws A, A', fulcrumed the one upon the other and provided with operating-handles, the jaw A' being provided with an upper arm A² and with a lower arm A³, a die-seat carried by the arm A³, a die-spindle and a clamp-spindle sleeved through the arm A², a link E pivotally connected with the forward end of the jaw A and with the upper end of the die-spindle, and a lever C fulcrumed upon the jaw A' and pivotally connected with the upper end of the clamp-spindle, substantially as set forth. 60 65 70

3. In a hand button-setting instrument, the combination of two jaws A, A' fulcrumed the one upon the other and provided with operating-handles, the jaw A' being provided with an upper arm A² and with a lower arm A³, a die-seat carried by the arm A³, a movable die-plate carried by the arm A³ provided with a series of die-seats, a die-spindle, a clamp to hold the work upon the die-plate, and a link E pivotally connected with the forward end of the jaw A and with the upper end of the die-spindle, substantially as set forth. 75 80

In testimony whereof I sign this specification in the presence of two witnesses.

FRANKLIN S. MCKENNEY.

Witnesses:

N. S. WRIGHT,
M. A. MARTIN.