

(No Model.)

P. H. SWEET, Jr.

INSTRUMENT FOR ATTACHING BUTTONS TO FABRICS.

No. 288,135.

Patented Nov. 6, 1883.

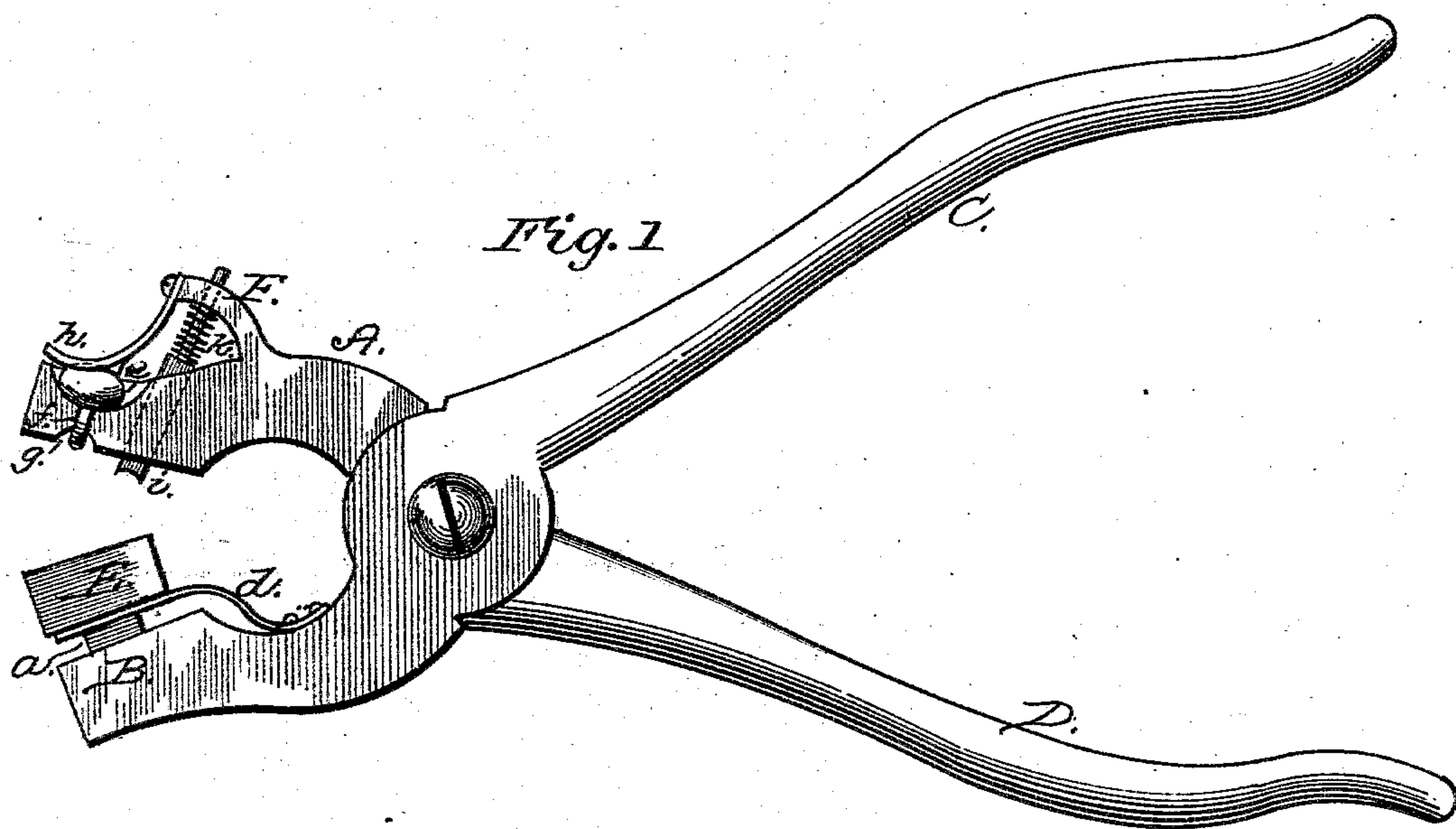


Fig. 2.

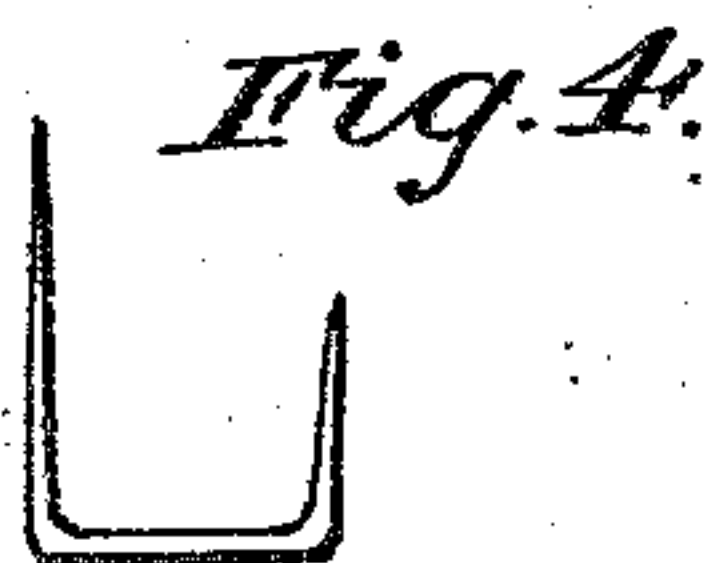
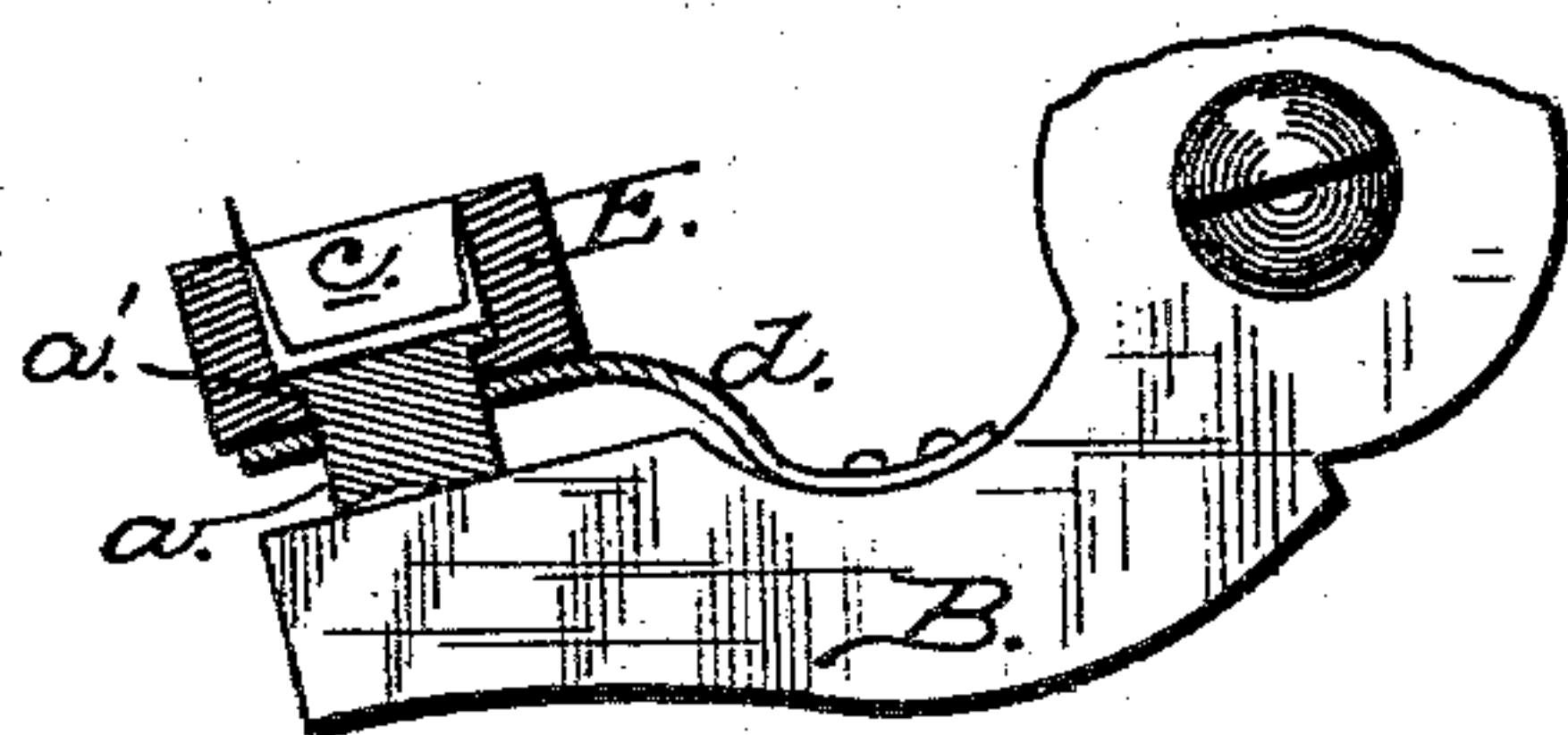
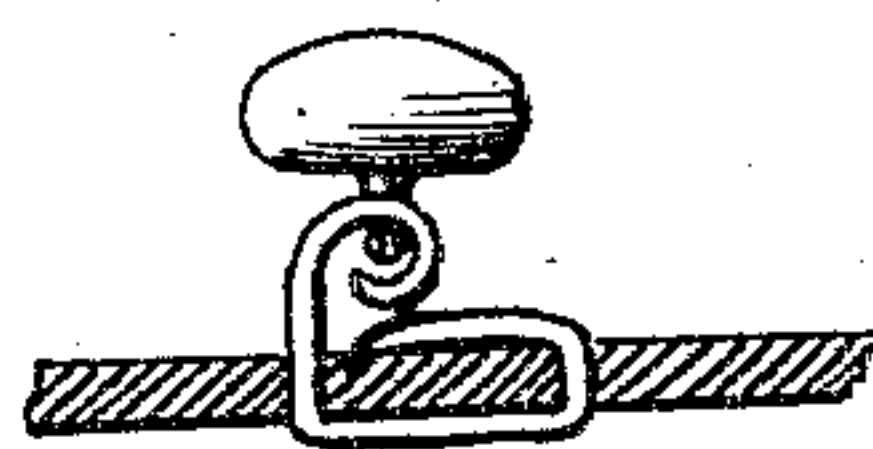


Fig. 3.



WITNESSES:

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INSTRUMENT FOR ATTACHING BUTTONS TO FABRICS.

SPECIFICATION forming part of Letters Patent No. 288,135, dated November 6, 1883.

Application filed September 20, 1883. (No model.)

To all whom it may concern:

Be it known that I, PARKER H. SWEET, Jr., a citizen of the United States, residing at Washington, in the District of Columbia, have
5 invented certain new and useful Improvements in Instruments for Attaching Buttons to Fabrics or other Materials; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others
10 skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

15 My invention relates to improvements in that class of setting-instruments which are adapted for attaching buttons to fabrics or other materials by means of a metallic fastener or connection; and my present improvements
20 consist, essentially, of a setting-instrument the lower jaw of which is provided with a novel means for holding the metallic fastener and for forcing it through the fabric from the under surface thereof, preparatory to clinching
25 or bending the prong or prongs of the fastener upon the upper surface of the said fabric and through the shank of the button, while the upper jaw of the said instrument is provided with a recess for holding the button, and with
30 dies for bending or deflecting the prong or prongs of the metallic connection or fastener, all as will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1
35 represents a side elevation of a setting-instrument embodying my invention; Fig. 2, a detail sectional view thereof; Fig. 3, a side view of a metallic fastener as applied to a button and fabric by means of my improved setting-
40 instrument, and Fig. 4 a side view of the fastener used in connection therewith.

Similar letters of reference occurring on the several figures indicate like parts.

45 In carrying out my invention the setting-instrument employed is composed of an upper and lower jaw, A B, adapted to be operated by the handles C D in a manner well known, the lower jaw, B, being provided, in the present instance, upon its upper surface with an

anvil or block, *a*, having a projecting rim or
50 flange, *a'*, at its upper end, said block being rigidly attached to or formed solid with said lower jaw, B, as fully shown in Fig. 2. This anvil or block *a* is adapted to move vertically
55 up and down within an opening, *c*, of corresponding size, in a yielding block, E, which is provided with a suitable spring, *d*, as shown, to hold the same in position at the upper part of the anvil when not in operation.

The upper jaw, A, is provided with a suit-
60 able recess, *e*, opening out to one side of said jaw, as shown, for the reception of the button, a slot, *f*, connecting said recess with the curved die *g* in the lower surface of the said jaw, for the
65 reception of the shank of the button, as fully shown in Fig. 1. Upon the upper surface of the said jaw A is formed a curved arm, F, to the front end of which is secured the one end
70 of a spring, *h*, the opposite end of which projects over the recess *e* in such manner as to hold the button therein during the operation
75 of securing the same to a fabric or material. Through the said upper jaw, A, and to the left of the recess *e*, is formed an inclined opening or slot, in which is adapted to fit a yield-
80 ing bar or rod, *i*, having a curved die upon its lower end, while its upper end passes through an opening in the curved arm F, and is provided with a coiled spring, *k*, beneath
85 the said arm, as shown in Fig. 1.

The construction of my invention being as described, it will be observed that in the operation of the same the metallic fastener
85 shown in Fig. 4 is first dropped down in the slot or opening *c* in the yielding block E until its prongs rest below the upper surface of the
90 same, as shown in Fig. 2, and the button placed in the recess *e* beneath the spring *h*, with its shank projecting down into the curved die *g*, as fully shown in Fig. 1. The fabric or
95 material to which the button is to be attached is then inserted between the two jaws of the instrument, and the said jaws being gradually closed together, the prongs of the fastener are first forced up through the material from the
under surface thereof, and the shorter prong of the fastener, coming in contact with the die upon the bottom of the yielding bar *i*, is upset

or bent over upon or into the upper surface of the material, and as said bar *i* yields by the further closing of the jaws together, the longer prong of the fastener is forced up into the die *g*, which bends or deflects said prong through the shank of the button back upon the material or upon the bent shorter prong to set the button securely in place, as fully shown in Fig. 3.

10 By means of my improved setting-instrument, the metallic fastener is firmly held in place during the operation of attaching the button to a fabric, thereby enabling the prongs to be bent in the right direction in a true line, 15 without danger of slipping or deflecting in a wrong direction.

Having thus described my invention, what I claim as new and useful is—

1. A setting-instrument for attaching buttons to fabrics or other materials, consisting of the jaws A B, adapted to be operated by

the handle C D, the said jaw A being provided with recess *e*, slot *f*, and die *g*, for receiving the button and its shank, yielding die-bar *i*, spring *k*, arm F, and spring *h*, while the lower 25 jaw, B, is provided with the anvil *a*, and yielding block E, having spring *d* and opening *c* to receive the metallic fastener, all substantially as and for the purpose specified.

2. In a button-setting instrument, the lower 30 jaw, B, provided with the anvil *a*, having a projecting flange or rim, *a'*, yielding block E, provided with spring *d* and an opening, *c*, to receive and hold the metallic fastener during the operation of setting the same, substantially as specified. 35

In testimony whereof I affix my signature in presence of two witnesses.

PARKER H. SWEET, JR.

Witnesses:

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