

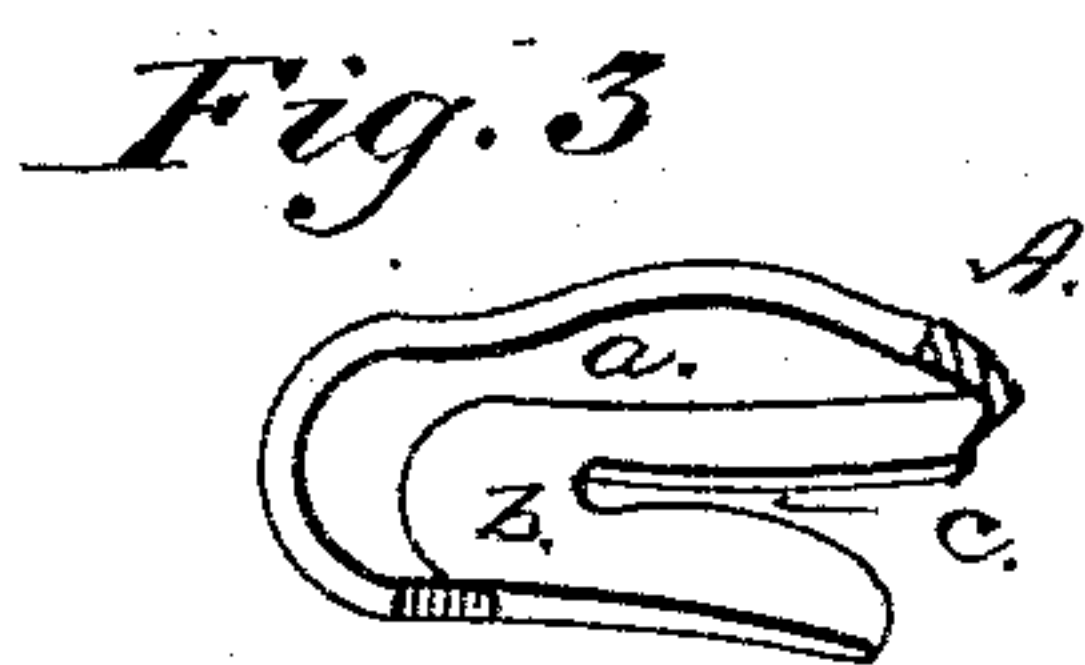
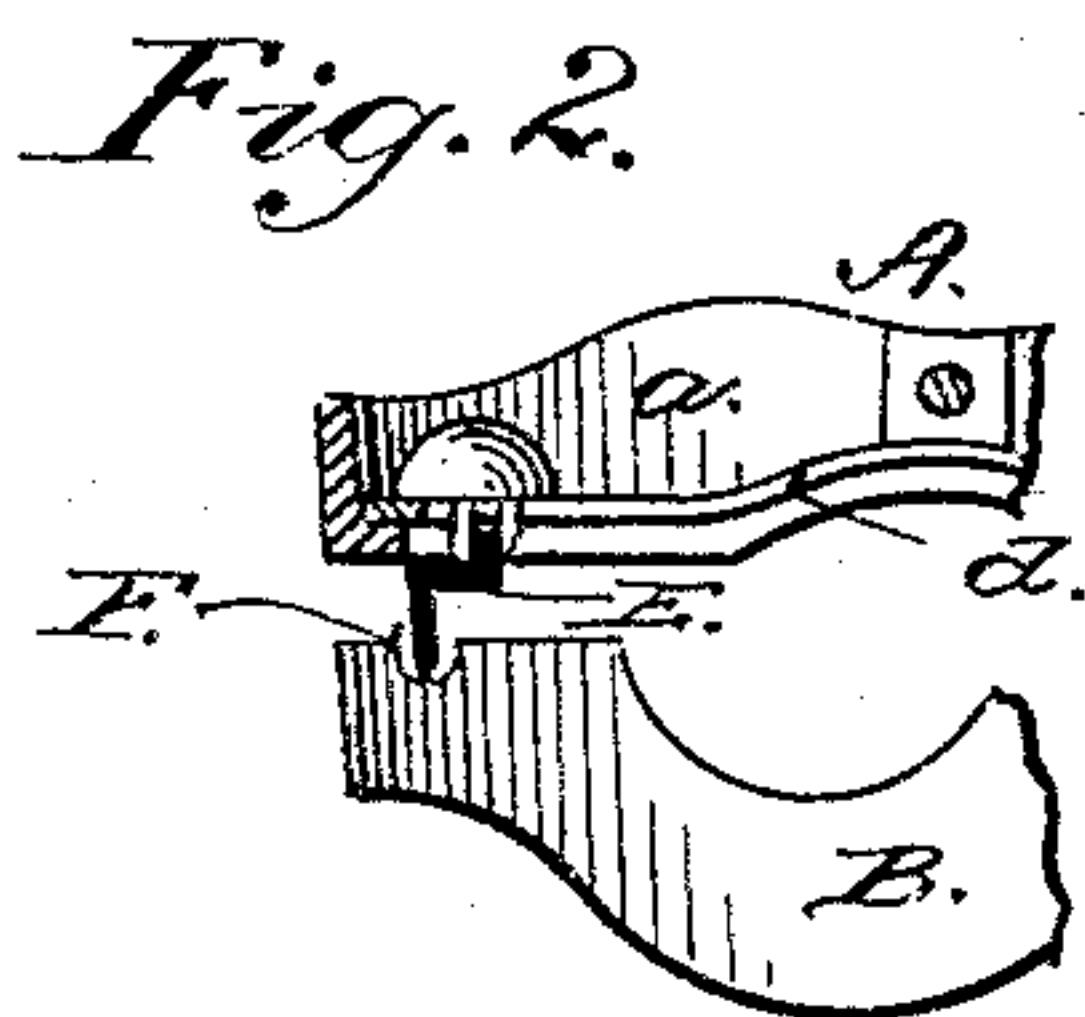
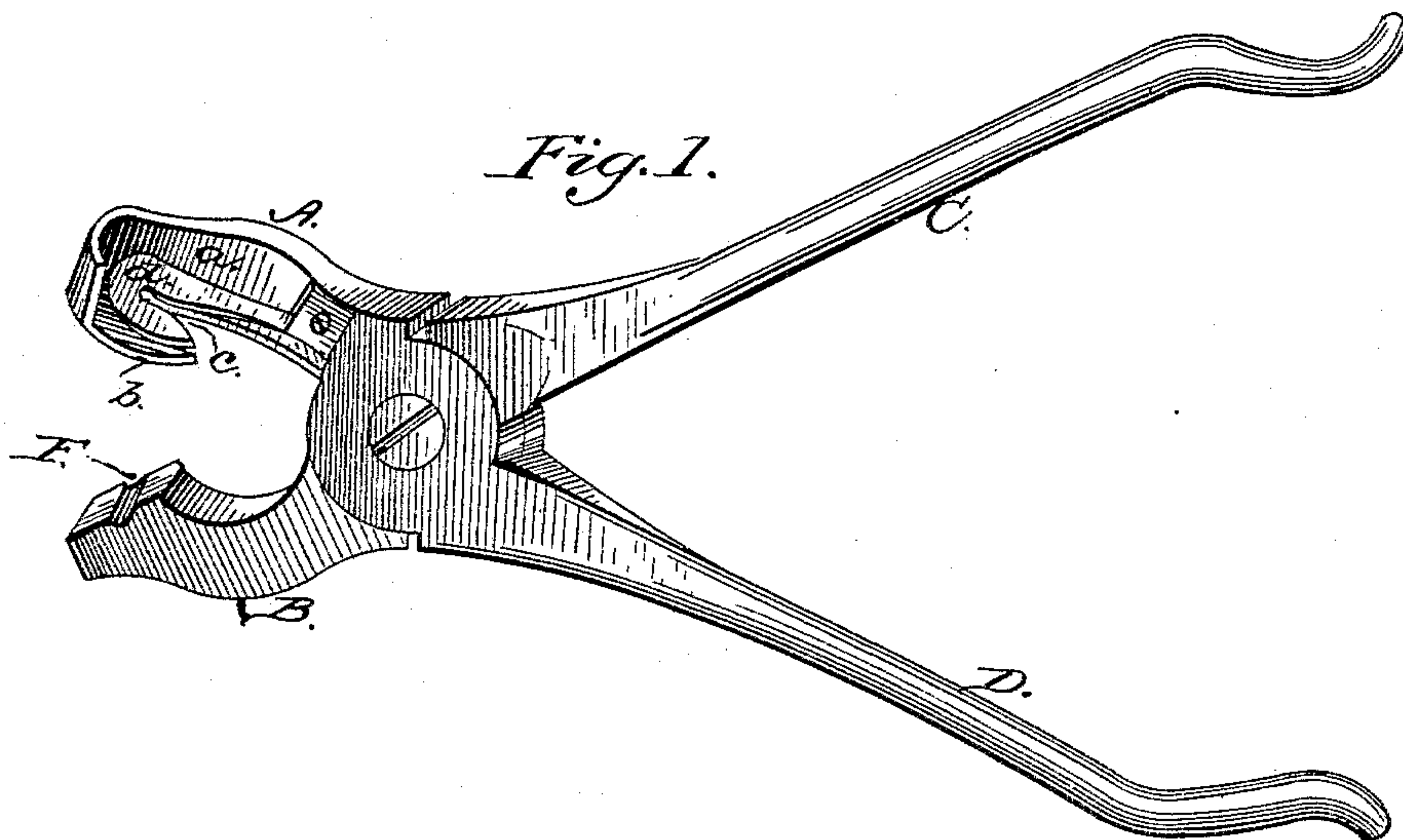
(No Model.)

P. H. SWEET, Jr.

SETTING INSTRUMENT FOR ATTACHING BUTTONS TO WEARING APPAREL.

No. 323,466.

Patented Aug. 4, 1885.



Witnesses:
L. D. Speller.
J. H. Adams.

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Parker H. Sweet, Jr.

UNITED STATES PATENT OFFICE.

PARKER H. SWEET, JR., OF WASHINGTON, D. C., ASSIGNOR TO THE HEATON
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SETTING-INSTRUMENT FOR ATTACHING BUTTONS TO WEARING-APPAREL.

SPECIFICATION forming part of Letters Patent No. 323,466, dated August 4, 1885.

Application filed December 23, 1884. (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 Setting-Instruments for Attaching Buttons to Wearing-Apparel; 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 designed for attaching buttons or studs having penetrating-prongs to articles of wearing-apparel; and my improvements consist, essentially, of an improved and novel construction
20 of that portion of the upper jaw of the instrument which constitutes the holding mechanism for the button and fastener, the complete instrument being more especially adapted for
25 operation in connection with an improved metallic fastener for which I have made separate application for patent of even date herewith, being Serial No. 150,961.

In the accompanying drawings, Figure 1
30 represents a perspective view of my improved setting-instrument; Fig. 2, a detail sectional view thereof; Fig. 3, a top plan view of the upper jaw, and Fig. 4 a perspective view of the fastener which is adapted to be used in con-
35 nection with said instrument.

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

In carrying out my improvements the setting-instrument is composed of the upper and
40 lower jaws, A B, which are adapted to be operated by the handles C D, in a manner well known. The upper jaw, A, is formed with an enlarged recess, *a*, which opens outwardly to the side and rear of the said jaw, as shown,
45 and is provided with a base or bottom, *b*, having a slot, *c*, extending nearly through the central part of the same in a line parallel to the length of said instrument, and said slot opening outward at the rear of the recess *a*, as
50 fully shown in the drawings. A rounded and bifurcated spring, *d*, conforming to the shape

of the bottom or base *b*, is secured at its rear end to the rear inner side of the recess *a* in such manner as to permit of an easy play of the free end of said spring in the recess, and
55 which is designed with the view of holding buttons having shanks of unequal length securely in position for setting the same by means of the metallic fasteners, the free end of the spring accommodating itself to the dif-
60 ferent lengths of the shanks of the buttons, which are adapted to rest in the central slot of said spring and in the slot *c* of the base *b*, as fully shown in Fig. 2. The rear end of the slot in the spring *d*, and of the slot *c* in the
65 base *b*, is enlarged, so as to permit of the easy adjustment of the button and fastener within the holding mechanism. The metallic fastener E, used in connection with the setting-
70 instrument, is clearly shown in Fig. 4, and is composed of a central flat loop, side wings or tables, and two sharp-pointed prongs projecting downwardly at right angles to said tables or wings, as shown. The upper face of the
75 lower jaw, B, is provided with a concave groove or die, F, which extends from one side of the jaw to the opposite side, as shown, for clinching the prongs of the fastener while being forced through the fabric or material to
80 which the button is to be attached.

In the operation of my invention the shank of the button is first passed over one of the prongs and into the central loop of the fastener, and the two parts thus connected together are pushed forward into the slots in the
85 spring *d* and bottom *b* until the points of the prongs rest directly over the concave groove or die in the lower jaw of the instrument, the handles C D of which being gradually closed together forces the said prongs through the
90 fabric or material and clinches the same upon the lower surface thereof to hold the button and fastener in place. The jaws are then opened and pushed forward from off the button and fastener that have been thus secured
95 to the fabric or material.

By means of my improvements the operation of attaching buttons is greatly simplified and facilitated, as the button and fastener can be adjusted in place in the upper jaw by one
100 hand only, leaving the other hand free to hold the handles of the instrument, thereby doing

away with the necessity of laying the instrument down every time it is desired to take up a button and fastener and adjust the same in the instrument, as is the case with all other setting-instruments now in use.

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

1. The herein-described setting-instrument, the upper jaw, A, of which is formed with the recess *a*, opening outwardly to the rear and to one side of the said jaw, and with an elongated slot, *c*, in the bottom *b* thereof, said recess being provided with the bifurcated spring *d*, corresponding in shape to the contour of the bottom *b*, and the lower jaw, B, being provided

with a curved die, F, extending from one side of said jaw to the opposite side, substantially as and for the purpose specified.

2. In a setting-instrument, the upper jaw, A, formed with a recess, *a*, opening outwardly to the one side and rear of said jaw, and the bottom *b*, having an elongated slot, *c*, and provided with the bifurcated spring *d*, substantially as and for the purpose specified.

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

PARKER H. SWEET, JR.

Witnesses:

J. H. ADRIAANS,
EMMA M. GILLET.