(No Model.)

G. W. PRENTICE.

BUTTON SETTING INSTRUMENT.

No. 274,028. Patented Mar. 13, 1883.

Fig. 1.

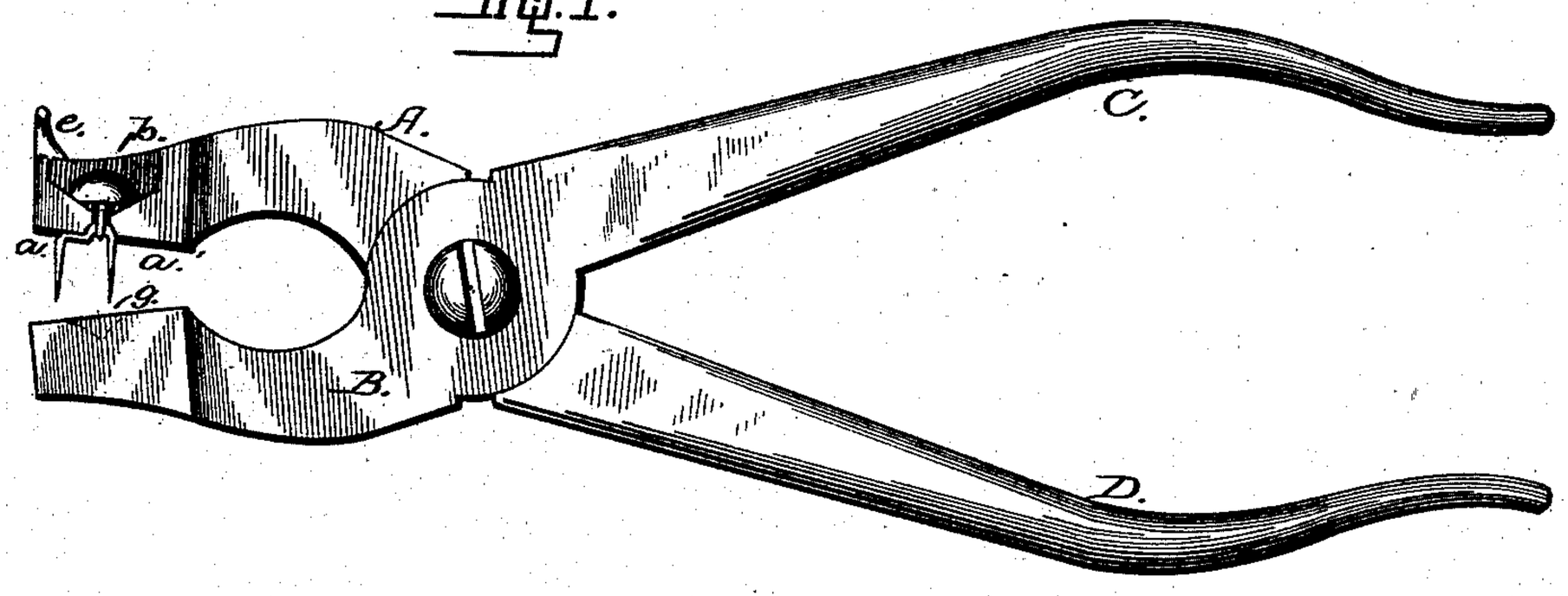


Fig. 2.

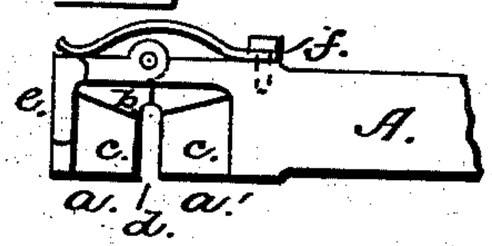


Fig. 3.

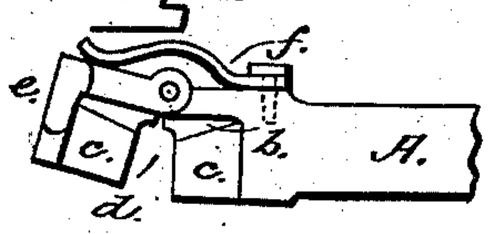


Fig. 4.

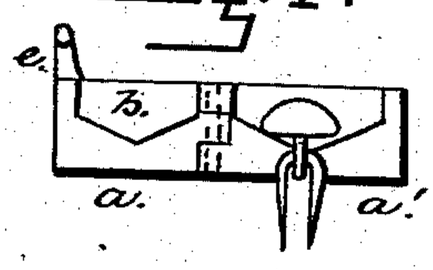
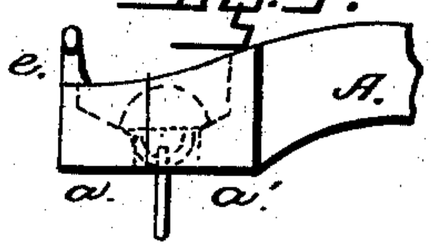


Fig. 5.



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GEORGE W. PRENTICE, OF PROVIDENCE, RHODE ISLAND.

BUTTON-SETTING INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 274,028, dated March 13, 1883.

Application filed January 8, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PRENTICE, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Setting-Instruments; and I do 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, and to the letters and figures of reference marked thereon, which form a part of this specification.

My present invention has for its object to provide an improved construction of that class of setting-instruments which are designed to attach buttons to fabrics by means of a metallic fastener or connection, and for which Letters Patent of the United States were granted to me under date of April 13, 1880, and numbered 226,549; and my improvements consist essentially in forming the upper jaw of the instrument constituting the holding mechanism in two sections, the outer one of which is hinged or pivoted to the inner section in such manner that the said sections are adapted to be opened to receive the button and metallic fastener, and to close upon the same to hold them in position preparatory to being attached to a fabric or material, all as will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of my complete invention; Fig. 2, a top plan view of the upper jaw; Fig. 3, a similar view in an open position to receive the button and fasteners; Figs. 4 and 5, detail views of a modification of my invention.

Similar letters of reference designate like parts in the several figures.

It may be observed that the upper jaw of the setting-instrument, constituting the mechanism for holding the button and fastener preparatory to their being attached to a fabric, has heretofore been constructed with an open recess having an inclined or wedge-shaped bottom terminating in a vertical slot, with concaved lower edges to receive the button-head, its shank portion, and the metallic fastener or connection in a manner well known, and as fully described in the aforesaid Letters Patent granted to me. It has been found, however, in the practical use and operation of such instruments that some little time is required to adjust the button and fastener in place within the upper jaw, particularly by persons unskilled in the use of the said instruments.

My present invention has been designed with the view to obviate the above-mentioned defects and to admit of the button and fastener being rapidly and securely adjusted within the holding-jaw.

Referring to the drawings, A represents the upper and B the lower jaw of a setting-instrument, which are adapted to be operated by the handles C D in a manner well known. The upper jaw, A, is of the usual shape, preferably, and divided vertically into two parts, *a a'*, as shown, the outer part or section *a* being hinged or pivoted at one side to the inner part or section, *a'*, as fully shown in Fig. 2 of the drawings. The two parts or sections are provided equally with an open recess, *b*, having inclined or wedge-shaped bottoms *c*, which project down into a vertical slot having a concave lower edge in such manner that when the two parts or sections are closed together the head E of the button rests equally and alike upon the recess formed in the same, while the shank of the button projects down into the vertical slot *d*, as fully shown in Fig. 1. To the front upper end of the outer section, *a*, is formed a thumb-piece, *e*, to assist in the opening and closing of the two sections, while a suitable spring, *f*, is attached to the inner section, *a'*, in such a manner that its front curved end projects over upon the side of the outer section, *a*, to hold the two parts or sections in a closed position when required, and as shown in Figs. 1 and 2 of the drawings. The lower jaw, B, of the setting-instrument is provided with a V-shaped die or groove, *g*, for deflecting or bending the points or prongs of the metallic fastener after they have passed through the fabric. I do not confine myself to this particular shaped die, as any suitable die may be employed, according to the style of the fastener used.

In the operation of my invention the outer section, *a*, of the holding mechanism is thrown open, as shown in Fig. 3, and the button E,

with its fastening-connection adjusted in place between the two parts or sections, and the outer section, *a*, being closed inwardly upon the opposite section, *a'*, secures the button and fastener firmly in place, and which are equally supported and held by the two sections, as fully shown in Fig. 1, preparatory to being attached to a fabric in a manner well known. After the button is attached to the fabric or material the outer section, *a*, is thrown open to release the same.

A modification of my invention is shown in Figs. 4 and 5, in which the bearing for the metallic fastener is located in the rear section, *a'*, instead of being equally divided between the two sections *a a'*, as shown in Fig. 1 of the drawings. The outer section, *a*, instead of being hinged to the side of the inner section, *a'*, may be hinged to the front or top in any suitable manner for the purpose contemplated without departing from the spirit of my invention.

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

1. In a setting-instrument constructed as herein described, the upper jaw, A, divided into two sections, *a a'*, formed with recess *b*, wedge-shaped bottom *c*, and slot *d*, and provided with the thumb-piece *e* and spring *f*, substantially as and for the purpose specified.

2. In a setting-instrument, the two sections *a a'*, pivoted together and provided with the spring *f*, constituting the holding mechanism of a button, substantially as and for the purpose specified.

3. As an improved article of manufacture, the herein-described setting-instrument, consisting of the jaws A B, operated by the handles C D, the upper jaw of which is composed of an outer and inner section, *a a'*, pivoted together and formed with a recess for holding the button and fastener, and provided with the thumb-piece *e* and spring *f*, and the lower jaw, B, of which is provided with the die *g*, all substantially as and for the purpose specified.

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

GEORGE W. PRENTICE.

Witnesses:
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