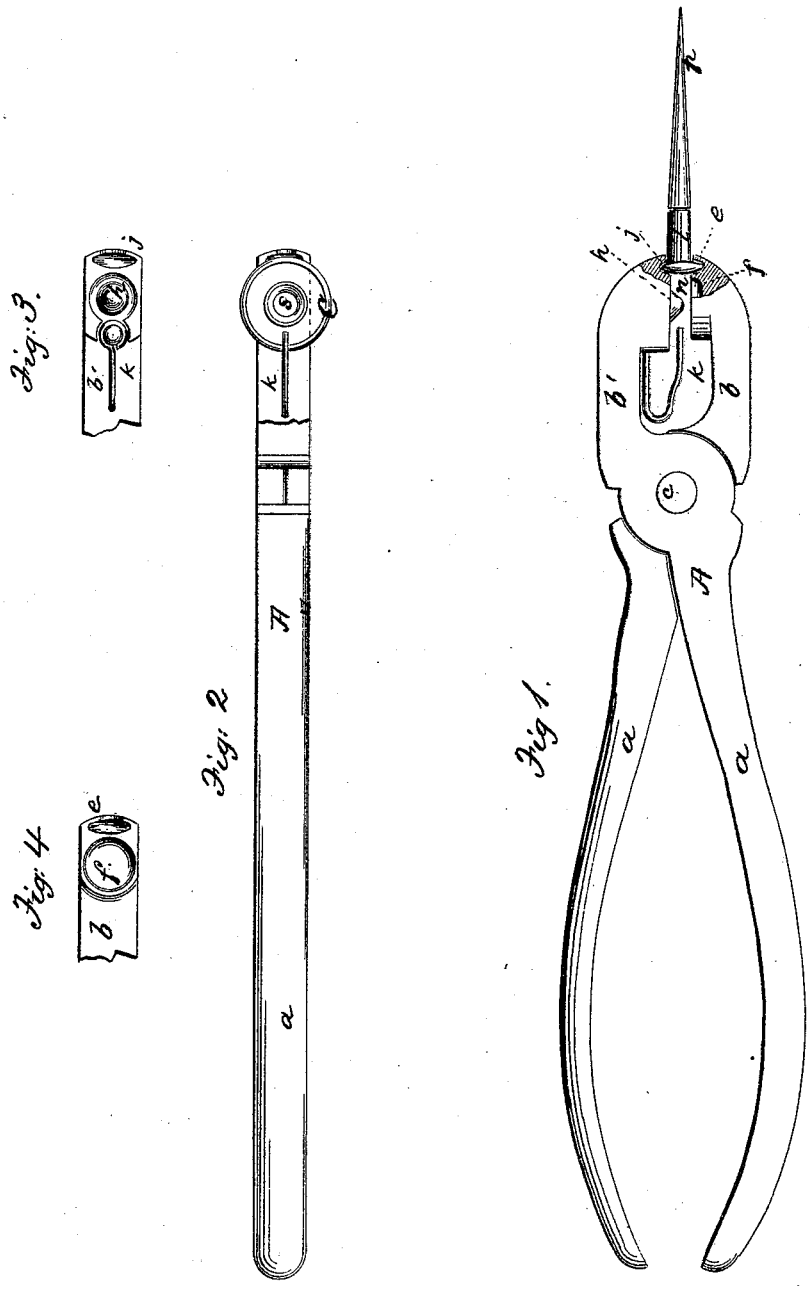
C. M. PLATT.

BUTTON-PLIERS.

No. 181,201. Patented Aug. 15, 1876.



Witnesses:

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UNITED STATES PATENT OFFICE.

CLARK M. PLATT, OF WATERBURY, CONNECTICUT.

IMPROVEMENT IN BUTTON-PLIERS.

Specification forming part of Letters Patent No. **181,201**, dated August 15, 1876; application filed July 24, 1876.

To all whom it may concern:

Be it known that I, CLARK M. PLATT, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new and Improved Instrument for Attaching Buttons to Garments; and that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making part of this specification.

This invention is in the nature of an improved instrument for securing buttons with metallic fastenings to garments; and the invention consists in an instrument for attaching buttons with metallic fastenings to garments, constructed with handles and jaws, the jaws having formed in them recesses to receive the edge of the flanges or caps of the metallic fastenings, a recess for receiving the under side of the flange or cap of the metallic fastening, a boss or other projection to fit into the configuration of the surface of the button, and a spring for holding the button in position within the jaws of the instrument, all arranged substantially as hereinafter described.

In the accompanying sheet of drawings, Figure 1 is a side view, partly in section, showing the metallic fastening with needle therein, secured in the recesses of the jaws; Fig. 2, an edge view, with one jaw removed, showing the button placed within the jaws and held in position by the spring; Fig. 3, a face view of jaw, showing recesses for edge of fastening, and boss with the spring; and Fig. 4, a view of face of jaw, showing recess for edge of metallic fastening and recess for cap or flange of same.

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

A represents an instrument for attaching buttons with metallic fastenings to garments, &c. This instrument is in shape and size not unlike ordinary pliers, having handles *a* and jaws *b* and *b'*, and the two parts of the implement being confined by a fulcrum-rivet, *c*. The jaws *b b'*, however, do not, under any circumstances, come together, as in ordinary pliers; but in the inner surface of the jaw *b* is formed an elliptical-shaped recess, *e*, near the front end of the jaw, and also a concave recess, *f*, as shown in Figs. 1 and 4, and in the other jaw *b'* of the instrument, and near its inner end is also formed an elliptical-shaped recess, *j*, corresponding in size and shape with the recess *e* on the other of said jaws before mentioned; and also in the jaw *b'* is formed a boss or conical projection, and other suitable channels and projections *h*, and likewise a spring, *k*, which may be secured to the instrument in any desirable manner, and which may be of any suitable construction.

To operate the instrument which I have just described, a metallic fastening, *l*, in the nature of a tubular eyelet, is placed with its cap or flange *n* within the recesses *e* and *j*, so that when the jaws are brought together by compressing the handles *a* this tubular eyelet will be firmly held within the recesses, with its tubular shank projecting outward, into which shank is placed a needle, *p*, as shown in Fig. 1. The needle and shank of the eyelet are next thrust through the fabric it is designed to attach them to. The button C is then placed with its edge beneath the spring *k* and the boss *h*, and other channels and projections on the jaw *b'*, fitting into the conical indentations and configurations on the face of the button, the neck of the button projecting upward. The jaws of the instrument are then opened, so that the recess *f* in the jaw *b* will receive the cap or flange *n* of the tubular eyelet *l*, and the projecting end of the tubular shank of the eyelet is inserted in the tubular neck *s* of the button, when, by compressing the handles *a* of the instrument, the tubular shank of the eyelet *l* is forced into the neck of the button, and the inner end of this tubular shank is flared or upset within the shell of the button, riveting the two together, and holding the fabric between the tubular neck of the button and the under side of the cap or flange of the tubular eyelet or fastening. The spring *k*, by its elastic force, retains the button in position within the jaws of the instrument; but the spring is not particularly essential to the working of the instrument, for the button may be held in the jaws in some other way, and, in fact, with a little care it will retain its position without the aid of a spring or other contrivance.

By the aid of the instrument above described buttons with metallic fastenings may be readily attached to garments by any one, and without the aid of a cumbrous machine or any special skill.

If desired, the elliptical recesses in the ends of the jaws for holding the capped flange of the tubular eyelet may be dispensed with, and similar recesses formed in the rear of the fulcrum-pivot, so that when the eyelet is confined in the recesses the instrument may be laid on a table with the shank of the eyelet projecting so that the needle may be inserted therein, and the fabric thrust over the needle and shank of the eyelet.

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

A plier-shaped instrument for attaching buttons with metallic fastenings to garments, constructed with elliptical recesses formed in and near the ends of the inner faces of the jaws, and with a circular concave recess in one jaw, and a conical boss formed on and spring secured to the other of said jaws, substantially in the manner and for the purpose described.

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Witnesses:

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