

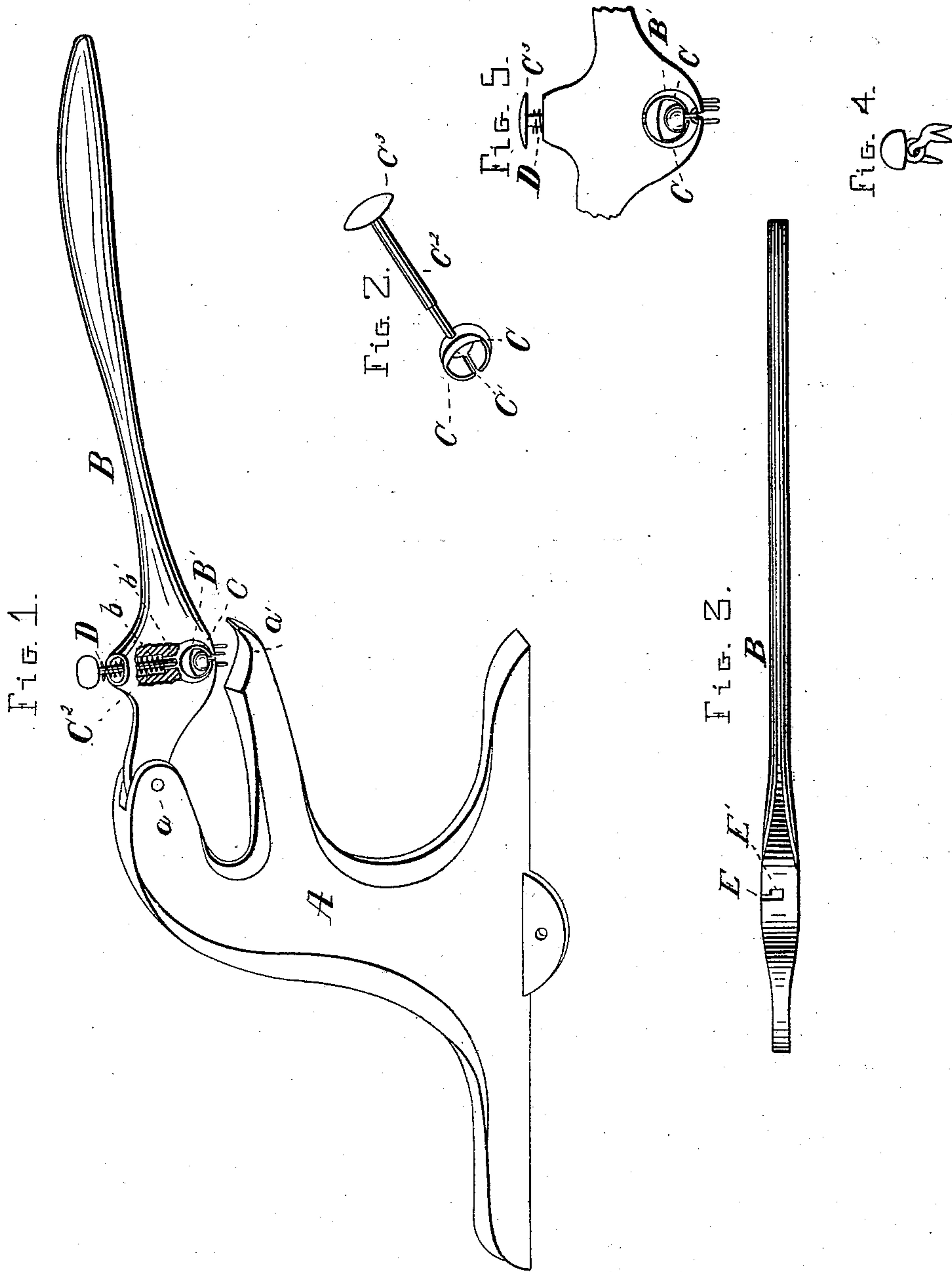
(No Model.)

G. T. FISHER.

BUTTON SETTING INSTRUMENT.

No. 316,025.

Patented Apr. 21, 1885.



Witnesses.

R. B. Turpin,
O. M. Kramer

Inventor.

Guyon T. Fisher
By R. B. & H. Lacey
Attys.

UNITED STATES PATENT OFFICE.

GUYON T. FISHER, OF IONIA, MICHIGAN.

BUTTON-SETTING INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 316,025, dated April 21, 1885.

Application filed August 29, 1884. (No model.)

To all whom it may concern:

Be it known that I, GUYON T. FISHER, a citizen of the United States, residing at Ionia, in the county of Ionia and State of Michigan, have invented certain new and useful Improvements in Button-Setters; 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.

This invention relates to devices for attaching buttons to shoes, gloves, &c.; and it consists in certain novel features of construction and combination of parts, as will be more fully described hereinafter.

In the drawings, Figure 1 is a perspective view of my device. Fig. 2 is a detail view in perspective of the button-holder. Fig. 3 is a bottom view of the lever. Fig. 4 is a detail view of the button and the preferred form of fastener. Fig. 5 shows a detail view of a portion of the lever.

The support A may be of any suitable form to provide the pivot-bearing *a* for the lever and the base or seat *a'*, against which to press the fastener. This base is suitably formed to engage and bend the prongs or points of the metallic fastener into position to secure the button, and may be modified to suit the variety of fasteners used, the specific construction of said base as shown being not essential to my invention, but being capable of change to suit the variety of fastener, as before stated, or the direction, whether toward each other or apart, it is desired to clinch the prongs of the fastener. The lever B is hinged at one end to the support, and extends out over the base *a'*, and is movable or swings toward and from the said base, as will be understood from Fig. 1. In one side of the lever, near its lower edge, I form a mortise, B'. This mortise is arranged immediately above base *a'* in the position of the parts shown. An opening, *b*, is formed upward from the top of mortise B through the upper side of the lever. In this opening I preferably form the upwardly-faced shoulder or bearing *b'* for the spring, presently described.

In the mortise B', I arrange the button-holder, consisting of the jaws C, adapted to fit over a button, and having their points separated sufficiently to permit the insertion and removal of the button-shank. A shank or stem, C², is projected from the upper ends of the button-holder and extends upward through the opening *b*, with its upper end above the lever, and is preferably provided on its upper extremity with a head, C³. A spring, D, is arranged to bear between a bearing, *b'*, of the lever and the stem C², and is by preference coiled around the stem and seated at its lower end on the bearing *b'*, and at its upper end engages under the head C³, or in other suitable manner with the stem C². This spring gives tension to the jaws proper to retain the button in the operation of setting same.

Through the lower wall of the mortise, and in line with the opening C' between jaws C, I cut a slot, E, suited to receive edgewise the shank of the button, and of the inner end of said slot I form a lateral wing or widened portion, E', of a size sufficient to permit the portion of the fastener which catches in the shank of the button to be drawn upward therein. This prevents the button from becoming detached from the setting-lever in the operation of the device.

I prefer to use the form of fastener shown in Fig. 4, though any other desired form of metallic fastener of the general character of that shown may be set with my machine.

In use the stem, with the jaws, is depressed and the button, with the fastener applied, is slipped between the jaws with its shank extended through slots or openings C' and E and the fastener below the lever, and the button pushed back until the shank of the fastener is drawn into opening or wing E', when the button may be set on a shoe or other article by placing the flap thereof on the base or seat *a'* and pressing the lever down thereon until the prongs pass through the article and are clinched to it.

For the purpose of more securely holding the button I prefer to form the wing E' at the inner end of slot E; but, where so desired, it may be dispensed with without involving any departure from the broad principles of my invention.

The lever constructed as described and pro-

vided with its attachments of jaws and tension-spring may be manufactured alone and sold to the user, and by him applied about in the manner shown to a bench or other suitable support.

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

1. The button-setting lever B, formed with a mortise, B', and having an opening, b, and slot E, extended from respectively the upper and lower sides of said mortise, and provided with the jaws C, having stem C', and a tension-spring, substantially as set forth.

2. In a button-setter, the lever B, provided with a mortise, B', and devices therein, substantially as described, for holding the button, and having a slot, E, cut through the base

of said mortise, fitted to receive the shank of the button, and having its inner end formed with an enlargement or lateral wing, E', fitted to receive the upper portion of the fastener, substantially as set forth.

3. The combination of the support provided with a base or seat, a', the lever B, provided with mortise B', having slot E, formed with a wing, E', and opening b, and shoulder b' therein, the jaws C, stem C', and the tension-spring, substantially as set forth.

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

GUYON T. FISHER.

Witnesses:

C. O. THOMPSON,
C. J. BLANCHARD.