A. SCHAFFER.
Button-Hole Cutter.

No. 226,358. Patented April 6, 1880.

Fig. 1.

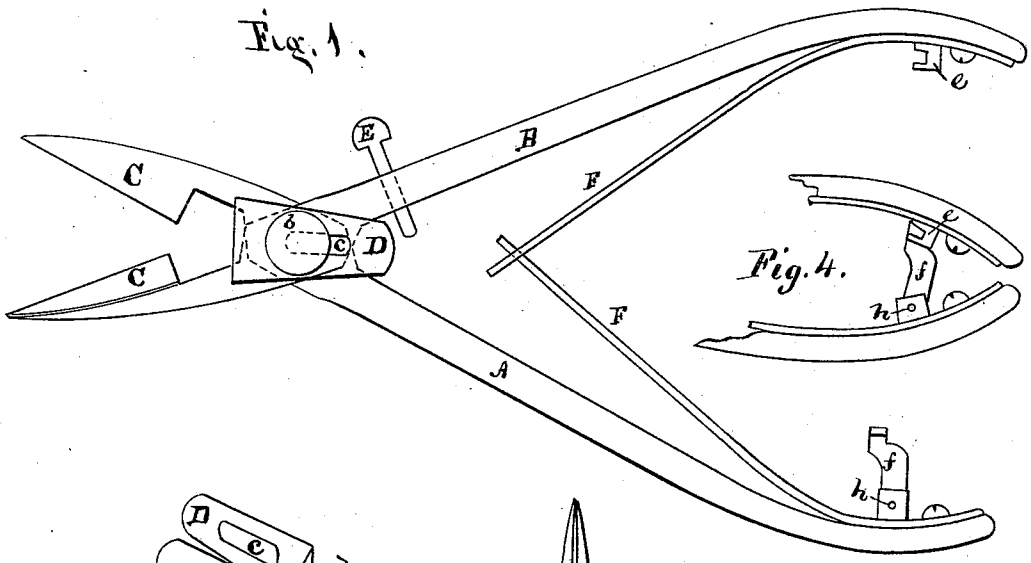


Fig. 4.

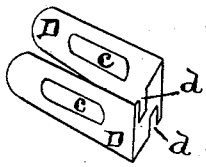


Fig 2.

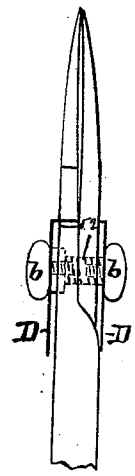


Fig. 3.

Attest:-
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UNITED STATES PATENT OFFICE.

AUGUST SCHAFFER, OF NEWARK, NEW JERSEY.

BUTTON-HOLE CUTTER.

SPECIFICATION forming part of Letters Patent No. 226,358, dated April 6, 1880.

Application filed January 28, 1880.

To all whom it may concern:

Be it known that I, AUGUST SCHAFFER, of the city of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Button-Hole Cutters; and I do hereby 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 letters of reference marked thereon, which form a part of this specification.

The object of this invention is to automatically limit and control the sizes of the button-holes to be cut and their distance from the edge of the cloth or garment.

The invention consists in a grooved and slotted clamping plate or gage of peculiar construction adjustably attached to the scissors at the point where the two blades are pivoted by means of a set-screw, which screws into the pivotal rivet, which is hollow and threaded to receive it. The clamping plate or gage is capable of being moved and set so as to bear against the edge of the cloth, thereby limiting the distance between said edge and the back ends of the cutting-blades, where the cutting of the button-hole begins, all as will be hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 represents a button-hole cutter, the blades being open, having my improvements attached thereto. Fig. 2 is a perspective view of the gage detached, and Figs. 3 and 4 show the cutter when tightly closed.

Similar letters of reference indicate like parts wherever they occur.

A and B represent the handles; C, the blades; D, the clamping plate or gage; E, a set-screw; F, the springs, &c.

The peculiar form of the clamping plate or gage is clearly shown in Fig. 2, and the manner of its adjustment will be readily understood by referring to Figs. 1 and 3. The rivet or screw *a*, Fig. 3, which forms the pivot of the scissors, is larger than is ordinarily used for such purpose, and is hollow. The gage D, being adjusted upon the scissors, as represented in Figs. 1 and 3, is movably secured thereto by means of small thumb-screws *b*, which pass through the slots *c* on each side of said gage and screw into the hollow rivet or screw *a*, there being grooves *d* cut in the end of the gage to admit the shanks of the blades, as indicated in Figs. 1, 2, and 3, whereby the gage may be set, as above stated.

The set-screw E, Fig. 1, passes through the handle B well up toward the pivot, and is capable of being set so as to engage with the opposite handle A, and so regulate and limit the sizes of the button-holes, as will be clearly understood by referring to the drawings.

The springs F are secured at one end to the handles on their insides, as shown in Fig. 1, and so formed and adjusted as that their opposite ends, by means of a tongue on one and a groove in the other, engage with and press against each other with sufficient force to press the blades open, and when closed said springs lie close to the handles on each side.

The device for holding the blades shut consists of a hook, *e*, secured to the inside of one handle, and a catch, *f*, on the other, one of which works on a pivot, *h*, and is adapted to be fastened or unfastened by the fingers.

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

The combination, with a button-hole cutter, of the gage D, provided with slots *c* and grooves *d*, and secured to said cutter by thumb-screws *b*, screwing into the hollow rivet or screw *a*, as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of September, 1879.

AUGUST SCHAFFER.

Witnesses:

OLIVER DRAKE,

CHAS. H. PELL.