F. G. Sanborn,

Button-Hole Cutter,

No. 46,028, Patented Jan. 24, 1865.

Fig. 1.

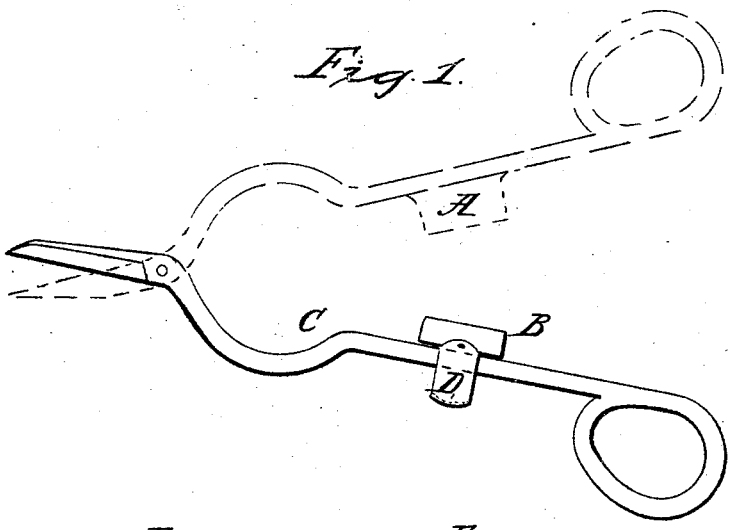
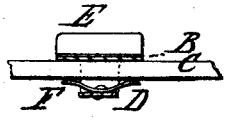


Fig. 2.



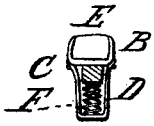


Fig. 3.

Witnesses:
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UNITED STATES PATENT OFFICE.

FRANCIS G. SANBORN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BUTTON-HOLE CUTTERS.

Specification forming part of Letters Patent No. **46,028**, dated January 24, 1865.

To all whom it may concern:

Re it known that I, FRANCIS G. SANBORN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Button-Hole Cutters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 shows a side view of one blade and shank of a scissors, to which is attached a cutting-block constructed after my invention; Fig. 2, a longitudinal vertical section of the block shown in Fig. 1. Fig. 3 is a transverse section of a modification of my invention.

Similar letters of reference indicate like parts.

This invention consists in certain improvements in the cutting-block of a button-hole cutter to be used and fastened upon one of the shanks of an ordinary scissors in the way pointed out in Letters Patent granted to me for a button-hole cutter on the 4th day of October, 1864.

C represents one of the shanks of an ordinary scissors, to which is attached a cutting-bed, B, held thereon by means of a sleeve, D, which slides and is adjustable upon said shank. The bed B is made of a flat plate, two of whose opposite sides are turned up so as to form a dovetailed groove, in which I insert a block of wood, horn, vulcanized or hard rubber, gutta-percha, or other appropriate material, for a surface to cut upon. The sides of the block are to be inclined conversely to fit the dovetailed shape of the plates which hold it. The bottom of the plate or bed B rests upon the inner edge of the shank and is held thereon by the sleeve D, whose upper sides are fastened to the bottom or corners of the bed. The sleeve D is formed of a plate struck up into a rectangular shape, but open on its upper face. The edges of its vertical sides are bent over at a right angle to enable them to be the better secured to the bed B. A spring, F, secured to the bottom of the sleeve, bears upward against the under or outer edge of the shank C, and serves to hold the bed B thereto by its elasticity. This spring may be of any form or variety of spring, and of any suitable material. I have shown a spiral and an elliptical spring in the examples here given. Their strength and elasticity are to be such as will suffice to hold the bed B in place on the shank, in whatever position it may be placed, whether directly and wholly under or opposite the cutter A, on the opposite shank of the scissors, or only partly opposite and partly at one side of the cutter. This mode of securing and holding the bed B on the shank enables me to move it to any position desired by the force of the hand, force enough being required merely to overcome the friction made by the pressure of the spring against the shank C. The bed B furnishes a suitable cutting-surface for a punch, as well as for a blade or knife like that delineated in red outline. The block E is removable, being secured in place by the form of the frame of the bed, and thus when a block is worn it may be changed, and a block of different material may also be substituted at pleasure.

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

1. A cutting-bed for cutters and punches, to be applied to the shanks of scissors, secured and held adjustably on the shank by means of spring-pressure, substantially as described.

2. The use of the dovetailed or grooved frame of the cutting-bed B, for holding movable blocks of horn, vulcanized or hard rubber, or gutta-percha, wood, or other substance, for a cutting-surface, as above set forth, when the same is applied to the shanks of scissors, substantially as above described.

FRANCIS G. SANBORN.

Witnesses:

EDWARD ROLFE,

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