(No Model.)

E. O. BARTHOLOMEW.

BUTTON HOLE CUTTER.

No. 442,005. Patented Dec. 2. 1890.

Fig. I.

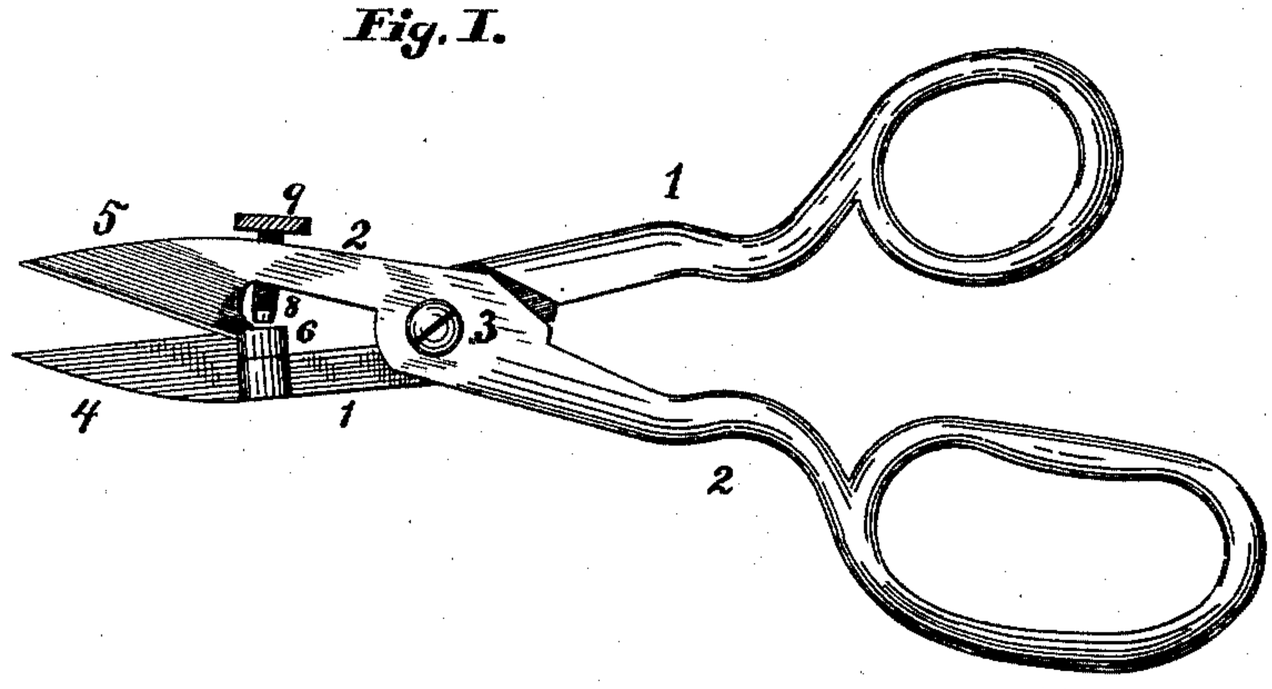


Fig. II.

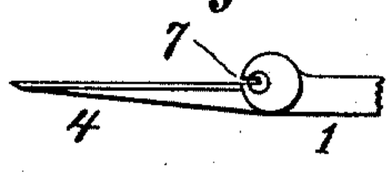


Fig. III.

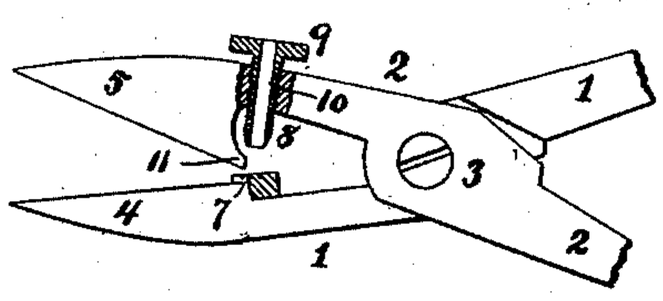


Fig. IV.

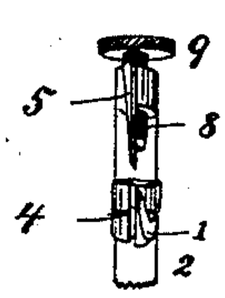
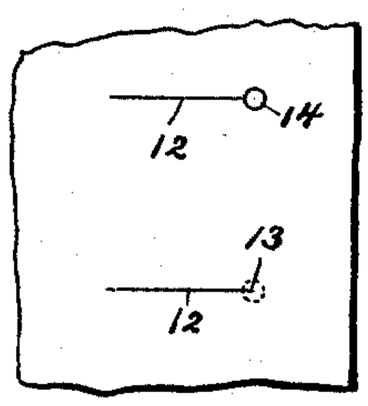


Fig. V.



Attest:

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UNITED STATES PATENT OFFICE.

ERMON O. BARTHOLOMEW, OF ST. LOUIS, MISSOURI, ASSIGNOR TO THE EYELET BUTTON HOLE SCISSOR COMPANY, OF SAME PLACE.

BUTTON-HOLE CUTTER.

SPECIFICATION forming part of Letters Patent No. 442,005, dated December 2, 1890.

Application filed September 5, 1890. Serial No. 363,975. (No model.)

To all whom it may concern.

Be it known that I, ERMON O. BARTHOLOMEW, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Button-Hole Scissors, of which the following is a full clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to certain improvements in button-hole scissors, whereby a perforation is made in the goods at the outer end of the slit.

My invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a side view of my improved scissors. Fig. II is a top view of the blade end of one of the members. Fig. III is a detail side view, part in section. Fig. IV is an end view looking at the point of the scissors. Fig. V is a view illustrating the work done by my improved scissors.

Referring to the drawings, 1 represents one of the members, and 2 the other member, pivoted together, as usual, at 3.

4 represents the cutting-blade of the member 1, and 5 the cutting-blade of the member 2. At the inner end of the blade 4 is a disk 6, having a slot 7 extending parallel to the blade, and to the inner end of which the blade extends, as shown in Fig. III.

8 represents a die or punch, which is preferably hollow. The die has a head 9, by which it may be turned, and it has a threaded connection with a socket 10 in the member 2, in which it fits. The lower end of the die is sharpened and cuts against the disk 6 when the scissors are used. The blade 5 has an inwardly-projecting rear point 11, which extends beneath the die and which, when the scissors are used, enters the slot 7 of the disk 6 for the purpose of cutting the slit 12 in the cloth (see Fig. V) into the portion 13 of the cloth, which is removed by the punch. In the lower part of Fig. V the dotted circle indicates the part cut out by the die or punch.

In use the blades first cut the slit, and then the die forms the perforation 14 at the end of the slit, producing a perfect button-hole. By slotting the disk and forming the blades so as to cut the slit into the portion of the cloth removed by the die a union between the perforation and slit is always assured. By adjusting the die up or down (which is done by applying the fingers to its head and turning it) the cutting action of the blades is regulated. Besides serving as a cutting-surface for the die, the disk serves as a guide to receive the blade 5 and prevent its inner point from riding or striking the inner point of the blade 4, which so frequently occurs with ordinary button-hole scissors, and it also holds the cutting-edges of the blades close together, insuring a cut and avoiding the possibility of the blades slipping over the goods upon which they are used. The slotted disk is thus useful irrespective of the die.

I claim as my invention—

1. The combination, in a button-hole scissors, of the blades and a slotted disk on one of the members at the inner end of its blade, and which is adapted to receive the other blade and serve as a guide, substantially as set forth.

2. The combination, in a button-hole scissors, of the blades 1 and 2, a slotted disk on one member 1 at the inner end of its blade, and a die secured to the other member 2 at such a point that the inner end of the blade of said member projects beneath said die, substantially as and for the purpose set forth.

3. The combination, in a button-hole scissors, of the members 1 and 2, pivoted together and having cutting-blades 4 and 5, a slotted disk 6 on the member 1, and an adjustable die 8 on the member 2, the blade 5 having an inwardly-projecting point 11, which extends beneath the die 8, substantially as and for the purpose set forth.

ERMON O. BARTHOLOMEW.

In presence of—
E. S. KNIGHT,
THOS. KNIGHT.