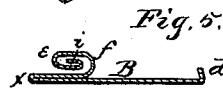
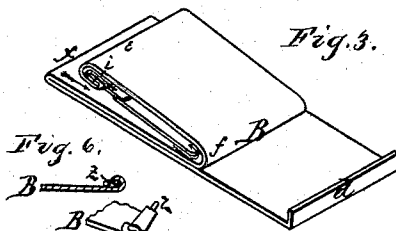
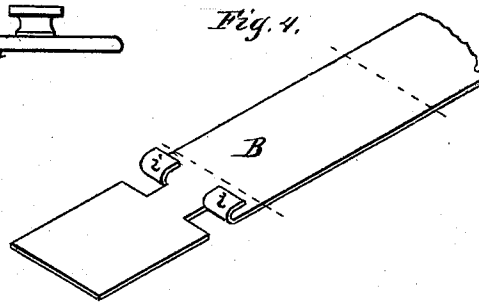
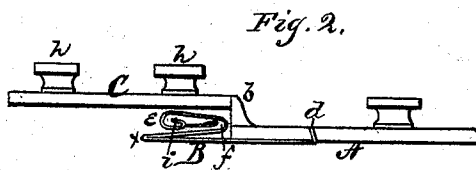
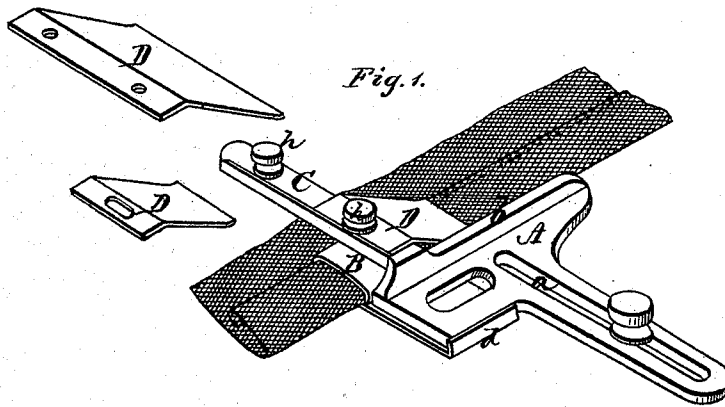


F. CASWELL.

Hemmers for Sewing-Machines.

No. 141,993.

Patented August 19, 1873.



Witnesses:

Henry N. Miller
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Inventor.

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Attorneys.

UNITED STATES PATENT OFFICE.

FRANK CASWELL, OF MOLINE, ILLINOIS.

IMPROVEMENT IN HEMMERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **141,993**, dated August 19, 1873; application filed June 25, 1873.

To all whom it may concern:

Be it known that I, FRANK CASWELL, of Moline, in the county of Rock Island and in the State of Illinois, have invented certain new and useful Improvements in Hemmer for Sewing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a hemmer for sewing-machines, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, and Fig. 2 a front view, of my entire hemmer with spring attached. Fig. 3 is a perspective view of the hemmer proper. Fig. 4 shows the plate of which the same is formed; and Figs. 5 and 6 are sections, showing modifications of the same.

A represents a T-shaped casting, the long arm of which is slotted longitudinally, as shown, and a set-screw passes through said slot into the bed of the machine to hold the casting in place. Along the outer edge of the shorter arms of the casting is a flange, *b*, which acts as a guide for the material. This casting A, with its flange, may be used separately as an ordinary guide for sewing. B represents the hemmer proper, which is made of a strip of sheet metal of proper width, having at one end a flange, *d*, turned upward and slightly inward, as shown particularly in Figs. 1, 2, and 5. The plate is then bent backward at *f*, so as to be doubled, and then bent in proper shape to form the double scroll *f e*. The bend at *f* being narrow, the cloth is not turned more than what is necessary; but, as the bend at *e* is wide, it is apt to do so, and I, therefore, cut out of the plate and bend over the guards *i i*, which will turn the edge of the hem a uniform width, and prevent too much cloth being turned under, and make a straight hem. The metal from the bend *e* extends nearly to the bend *f*, except in a hemmer for very narrow hems, where the

end of the plate will form the guards *i*, as shown in Fig. 5.

In hemmers over one and a half inch wide, the cloth, in going through the double scroll, is apt to catch on the end *y* of the plate; and, to obviate this difficulty, a wire, *z*, is inserted or attached to it, as shown in Fig. 6, and the end of said wire bent to form a blunt corner, which will not catch on the cloth. The hemmers proper, B, thus constructed are made of various sizes, and arranged in sets, one set belonging to each attachment. The hemmer B is slipped under the front short arm of the casting A, said arm fitting between the bend *f* and the flange *d* as in a dovetail, and the hemmer can readily be removed and another substituted when desired to change the width of the hem. From the front short arm of the casting extends an arm, C, parallel with, but in a direction opposite to, that of the long arm of the casting. This arm C is, on its upper side, provided with short screw-studs, on which is placed a flat spring or spring-plate, D, held by means of thumb-nuts *h h*, as shown. This spring or spring-plate may be of any desired width, and is used for the purpose of flattening the hem as it leaves the hemmer, and before the needle passes through it. This may be used with any hemmer of any construction, and on any machine. The narrow spring shown in Fig. 1 is provided with an elongated slot, so that it can be moved outward from the flange *b* on the casting A, thereby allowing a cord to be sewed into the hem, if so desired.

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

The combination of the casting A, with flange *b* and arm C, double-scroll hemmer B, constructed as described, with flange *d*, bends *f e*, guards *i*, and wire *z*, and the spring-plate D, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of May, 1873.

FRANK CASWELL.

Witnesses:

J. T. BROWNING,
NELSON CASWELL.