

MARY DUFF.

HEMMERS FOR SEWING-MACHINES.

No. 184,959.

Patented Dec. 5, 1876.

Fig. 1.

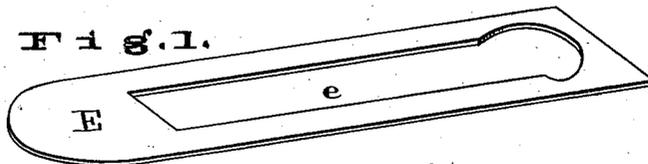


Fig. 2.

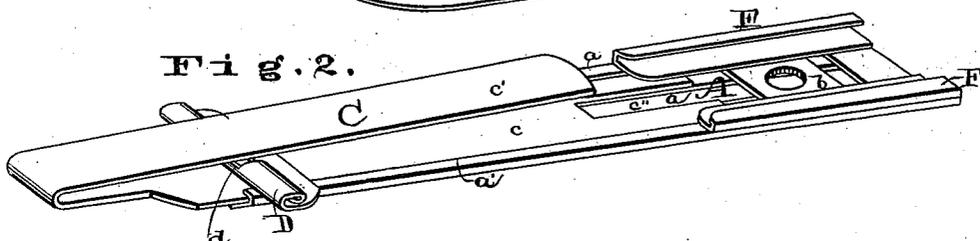


Fig. 3.

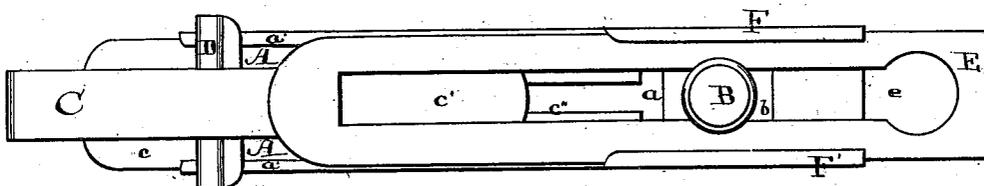
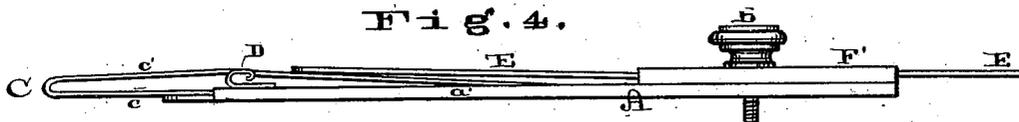


Fig. 4.



WITNESSES.

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IMPROVEMENT IN HEMMERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 184,959, dated December 5, 1876; application filed March 30, 1876.

To all whom it may concern:

Be it known that I, MARY DUFF, a resident of Benton, Franklin county, Illinois, have invented a new and useful Improvement in Sewing-Machine Hemmers, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, making part of this specification, in which—

Figure 1 is a perspective view of the press-plate; Fig. 2, a perspective view of the bed-plate, and gage in position thereupon; Fig. 3, a plan of the hemmer, and Fig. 4 an elevation of the hemmer.

Like letters indicate like parts.

The aim of the present invention is to provide a hemmer that is adjustable to hems of different widths.

Referring to the annexed drawing, A, Figs. 2, 3, and 4, represents the bed-plate of the hemmer. It is a straight plate, of suitable length, and is slotted longitudinally at *a*, Figs. 2 and 3, to receive the set-screw B, Figs. 3 and 4, by which the hemmer is fastened to the bed-plate of a sewing-machine. The set-screw can bear directly upon the plate A, or, if preferred, upon a sliding plate or washer, *b*, which, in turn, bears upon the plate. The plate A, on either side, is provided with a flange, *a' a'*, Figs. 2, 3, and 4. These flanges extend from the inner to the outer end of the plate A, and form guides for a sliding gage, C, Figs. 2, 3, and 4, to move in. D, Figs. 2, 3, and 4, represents the hemmer-scroll. It is made straight, so that the work can enter therein from either end, and it is attached to the outer end of the plate A upon the upper side of the lips *a' a'*. The gage C consists of an under plate, *c*, and an overhanging arm, *c'*, which extends nearly, or quite, to the inner end of the plate *c*. The latter, in width, is fitted to move in the guides *a' a'*. At its inner end *c''* the plate *c* is slotted in order to pass the set-screw B. E represents what I term the "press-plate," being a straight plate, slotted longitudinally at *e*. It is fitted and arranged to move in guides F F', Figs. 2, 3, and 4, with which the plate A on either side, at its inner end, and above the guides *a' a'*, is

provided. In length this plate E corresponds with the bed-plate A.

In operation, the various parts of the hemmer are arranged as shown in Figs. 3 and 4. The bed-plate A is attached to the bed-plate of the sewing-machine by means of the screw B, which, according to the position of the screw-hole in the sewing-machine plate, can pass through the slot *a* at any desired point. The gage C is moved in or out in the guides *a' a'*, to suit the desired width of hem—the wider the hem, the farther in must the gage be moved, as the fold of the cloth is passed over the inner end of the overhanging arm *c'*. To hold the cloth properly upon the arm *c'*, especially in hemming light material, the press-plate E is brought into use, being arranged as shown in Figs. 3 and 4—that is, the plate E is moved outward, so that its outer end presses upon the fold of the cloth upon the arm *c'*, and bearing it down upon the latter. In this manner any desirable width of hem can be hemmed, and the cloth held firmly during the operation. The scroll D is cut away at *d*, to enable the arm *c'* to be brought suitably down. As the gage C is moved outward, the plate E is adjusted suitably to it. To run the hem in the opposite direction it is only necessary to reverse the hemmer, turning it so that the bed-plate A is uppermost.

I am aware that adjustable hemmers have heretofore been used, and I therefore do not, broadly, lay claim to such; but

Having described my invention, what I claim is—

1. The combination of the slotted plate A, guides *a' a'*, screw B, slotted plate *c*, arm *c'*, scroll D, slotted press-plate E, and guides F F', substantially as described and shown.

2. The combination of the slotted plate A, guides *a' a'*, screw B, slotted plate *c*, arm *c'*, and scroll D, substantially as described and shown.

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Witnesses:

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