

J. IRVINE.
Ruffers for Sewing-Machines.

No. 151,781.

Patented June 9, 1874.

Fig. 1

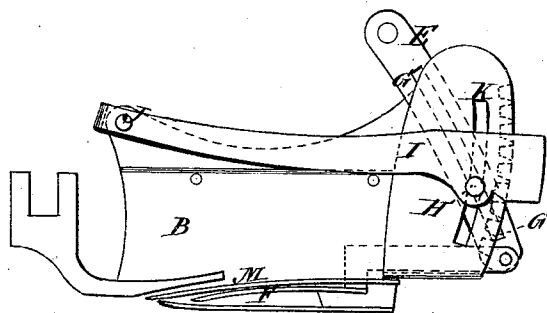


Fig. 2

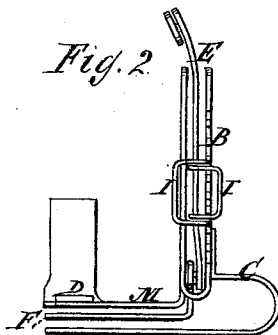
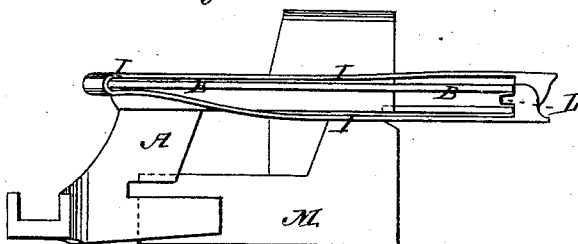


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN IRVINE, OF ICKESBURG, PENNSYLVANIA.

IMPROVEMENT IN RUFFLERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **151,781**, dated June 9, 1874; application filed April 18, 1874.

To all whom it may concern:

Be it known that I, JOHN IRVINE, of Ickesburg, in the county of Perry and State of Pennsylvania, have invented a new and Improved Ruffler for Sewing-Machines, of which the following is a specification:

The invention is an improvement in the class of rufflers in which motion is derived from the needle-post, and the feed may be changed or adjusted while the machine is in operation without interrupting the work. The invention relates to pivoted and parallel spring-bars, combined or operating with a notched vertical plate for changing the feed of the ruffler, as herein described.

Figure 1 is a side elevation of my improved ruffler. Fig. 2 is an end elevation, and Fig. 3 is a plan view.

Similar letters of reference indicate corresponding parts.

The supporting-plates A B C are attached to the presser D, as in some other attachments. The lever E, which works the ruffler, has a long slot, G, in which the pivot-pin H, on which it vibrates, is arranged to shift along the lever, for varying the throw of the ruffler. This pivot is mounted in the bars I, which are pivoted to plate B at J, so as to swing the pivot H along the slot K in plate B, to change the throw of the ruffling-plate. These bars I are held at any point by a tongue, L, projecting into notches in the end of plate B. They

are contrived so that the tongues spring into the notches, and are released for shifting the pivot by pressing the two bars together with the thumb and finger. It will be seen that this can be readily done when the machine is in motion without interrupting it, and the throw of the ruffler can be thereby changed to any required extent. By shifting the pivot upward the throw is increased, and downward it is shortened. When shifted down to the bottom of slot K the movement of the ruffler will be shortened to correspond with the feed, so that the cloth will not be ruffled, although the ruffler continues to work. M represents the plate which I propose to arrange over the ruffler to carry on the band or other cloth to be sewed on without ruffling the cloth or being ruffled itself.

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

The pivoted spring-bars I I, having the tongue L, in combination with the slotted plate B, having notches or serrations, the pivot H, and slotted lever E, carrying ruffler-plate F, all combined and arranged as shown and described, for the purpose specified.

JOHN IRVINE.

Witnesses:

JOHN PECK,

JOHN H. KENDIG.