

F. SIEVERS.

Ruffing Attachments for Sewing Machines.

No. 157,462.

Patented Dec. 8, 1874.

Fig 1

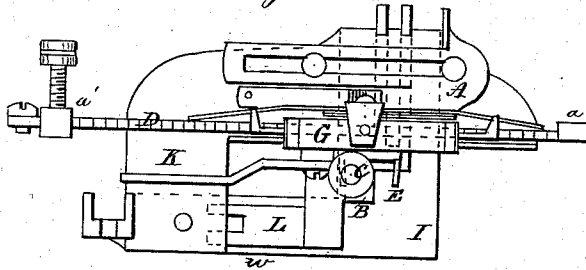


Fig 2

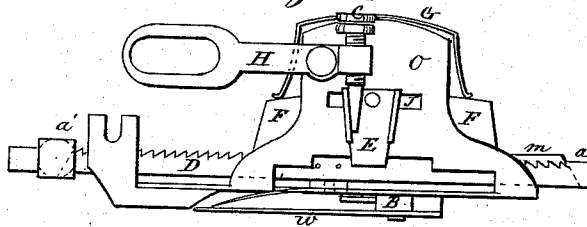
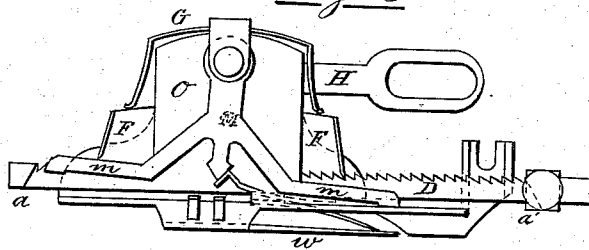


Fig 3



Witnesses.

J. R. Helderby.
S. L. Morris

Inventor.

Frederick Sievers.
per R. S. + A. Lacey
attorneys.

UNITED STATES PATENT OFFICE.

FREDERICK SIEVERS, OF FORT WAYNE, INDIANA.

IMPROVEMENT IN RUFFLING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 157,462, dated December 8, 1874; application filed October 31, 1874.

To all whom it may concern:

Be it known that I, FREDERICK SIEVERS, of Fort Wayne, in the county of Allen and State of Indiana, have invented certain new and useful Improvements in Sewing-Machine Plaiting and Ruffling Attachment; 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 which it pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to that class of sewing-machine attachments used to automatically form the ruffle or lay the plait of any desired size or width during the operation of stitching, and which will be hereinafter fully described.

In the accompanying drawings, Figure 1 represents a top view of the apparatus constructed according to my invention. Fig. 2 is a front elevation. Fig. 3 is a rear elevation of the same.

The same letters indicate like parts on the several figures, in which—

I is the main bed-plate, and K an arm extending around forwardly, by which said plate is connected with the presser-foot. On this stationary bed-plate is a rack, D, which, being operated by the reciprocating pawl F, receiving its motion, through the slide E, pintle C, and lever H, from the needle-bar, is caused to travel endwise with an intermittent forward motion by one, two, or more notches at each stroke of the needle-bar, until the feed-spring L has been thereby carried forward until its forward end has passed the end of the separating-blade *w* and spanned the needle, at which time the front pawl is thrown out of gear with the rack by the inclined end *a* of the rack coming in contact with the end of the tripping-lever *m*, which depresses it and elevates its other end, which reverses the

double pawl F, so that by a continued reciprocation of the pawl the rack is caused to run back to its normal position, when an adjustable incline, *a'*, on the other end of the rack strikes the opposite end of the tripping-lever *m*, and reverses the double pawl F to give the forward motion again to the rack D.

The width of the plait is determined by the elevation or depression of the adjustable pintle C in the slide E. By raising said pintle the plait is narrowed, and vice versa, and the distance of the seam from the edge of the material is to be regulated by the slide B having a transverse motion in the bed-plate I.

When it is desired to stop the action of the plaiter and continue a section of plain sewing, the slide A is to be drawn back, which holds both pawls out of gear with the rack, while the ordinary table-feed continues to operate regardless of the plaiting mechanism.

The standard O is formed of two plates of metal, so as to afford space in the lower part for the rack D and pawls F to slide in. The tripping-lever *m* is held in position by its central angular point *c* resting on either side of the V-shaped spring *e*, and the double pawl F is borne down to the rack by the spring G. The slide E and double pawl F are connected by a pivot, *m*, passing through and sliding in the slot J.

What I claim as new, and desire to secure by Letters Patent, is—

The slide A, in combination with the tripping-lever *m*, for the purpose of stopping the feed of the plaiter while the needle-bar and table-feed continue their motions, substantially as specified.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

FREDERICK SIEVERS.

Witnesses:

CASPER MILLER,
NATHAN KRAUSE.