

GEORGE E. DOLTON.

Improvement in Ruffling Attachment for Sewing Machines.

No. 125,032.

Patented March 26, 1872.

Fig. 1

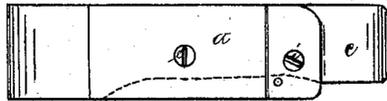


Fig. 3.

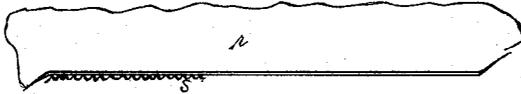


Fig. 2.



Witnesses

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GEORGE E. DOLTON, OF MONEE, ILLINOIS.

## IMPROVEMENT IN RUFFLING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 125,032, dated March 26, 1872.

### SPECIFICATION.

Be it known that I, GEORGE E. DOLTON, of Monee, in Will county and State of Illinois, have invented a new and useful Ruffling or Gathering Attachment for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing making a part of this specification, in which—

Figure 1 is a plan view of the top; Fig. 2, a longitudinal elevation; and Fig. 3, a view of the material to be ruffled.

The object of my invention is to ruffle or gather the edge of one piece of cloth on the edge of another, or in any other desired locality.

The device is constructed of a strip of metal, *a c*, bent so as to form a slot, *o*, between its two arms, and is designed to be attached to the foot of a sewing-machine by means of the set-screw *i*, or in any other desirable manner. The upper cloth passes through the slot *o*, while the other passes under the whole device next the plate of the sewing-machine, so as to engage with the feed. The upper cloth not engaging with the feed, being in the slot *o*, is pulled along by the lower cloth after the two have been united by the stitch, so the lower cloth moves faster than the upper cloth up to the needle, where it becomes shirred up, ruffled, or gathered, as shown in Fig. 3. The fullness of the ruffle is regulated by the tension of the upper arm *a* on the upper cloth, which is regulated by the set-screw *e*. The lower arm *c* is formed with two curves, *b b'*,

shown in Fig. 4, the object of the first curve being to allow the under cloth to feed straight to the needle, and that of the second curve being to allow the cloth, when gathered, to pass out freely without retarding or drawing it, as would be the case if the arm *c* was made straight. The needle operates in the eye next the set-screw *i*.

By making the lower arm of the curved form described, I obviate all liability of retardation or dragging of the cloth, and at the same time allow the ruffles or gathers to pass freely without danger of being crushed or flattened. These curves, simple though they are, add greatly to the perfection of operation and result. By means of the set-screw *e* the device is enabled to work on any thickness of goods or cloth, and to make any fullness of gather, and the device is designed to operate on any kind of sewing-machine by varying the mode of attachment to the foot, whether by means of a set-screw or other device.

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

The lower plate *c*, formed with the curves *b b'*, as shown, for the purpose specified, with the top plate *a*, all constructed and operating in connection with the adjustable screws *e i*, as described.

GEORGE E. DOLTON.

Witnesses:

THOS. H. HUTCHINS,  
HENRY LOWE.