

W. H. CONVERS.

Ruffing Attachment for Sewing Machines.

No. 168,141.

Patented Sept. 28, 1875.

Fig. 1.

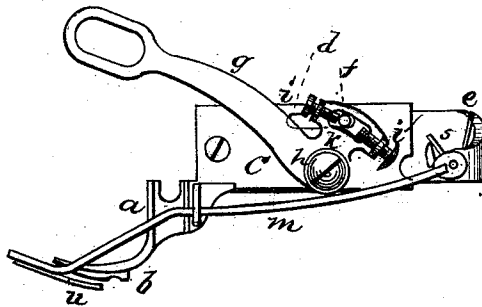


Fig. 2.

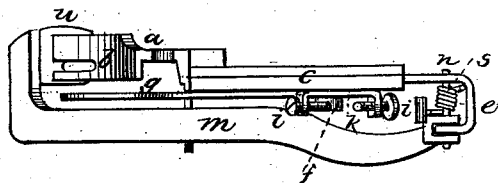


Fig. 3.



Fig. 4.

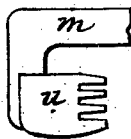
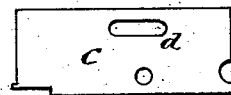


Fig. 5.



WITNESSES:

W. H. Bond
M. C. Conner

INVENTOR:

Wilbur H. Convers.
By W. H. Bond
Atty

UNITED STATES PATENT OFFICE

WILBER HENRY CONVERS, OF NEW ORLEANS, LOUISIANA, ASSIGNOR TO
HARRY C. GOODRICH, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN RUFFLING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **168,141**, dated September 28, 1875; application filed
August 13, 1875.

To all whom it may concern:

Be it known that I, WILBER H. CONVERS, of the city of New Orleans, Orleans parish, State of Louisiana, have invented new and useful Improvements in Ruffling Attachments for Sewing-Machines, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation; Fig. 2, a top view; and Figs. 3, 4, and 5, details.

The device is designed to be attached to the presser-foot of a sewing-machine. Its construction is, in many respects, similar to that of other rufflers in use; but the parts are so arranged that the main portion of the device is behind instead of forward of the presser-foot bar; and the invention consists in this arrangement of parts in hinging the ruffling-bar to the other portion of the device, and in the devices for adjusting the movement of the ruffling or crimping plate.

In the drawings, *a b* represent a presser-foot, to be attached to the presser-foot bar, as usual. *c* is a socket, permanently attached to *a*. *d* is a slot in the side of the socket *c*. *e* is a sliding plate, which moves in the socket *c*. Its rear end is bent around, as shown at *e'*, Fig. 2. *f* is a pin secured to the plate *e*, and moving in the slot *d*. *g* is a lever, pivoted at *h* to the socket *c*, having an eye at one end, adapted to receive the pin on the needle-bar, as usual. *k* is an extension on the rear end of the lever *g*, in which is a slot, *v*, which passes over the pin *f*. At each end of this extension *k* are ears provided with screw-threaded holes, to receive the adjusting-screws *i i*. *m* is the bar which carries the crimping or ruffling plate *u*, which is located beneath the presser-foot bar. *m* is hinged at its rear end to the extension *e'* of the sliding plate *e* by means of a pin, *n*, and the pin *n*, upon which it is hinged, passes through the rear end of the main portion of the plate *e*. (See Fig. 2.) Around this pin *n* is a coiled spring, *s*, having its ends extended. One end comes in contact with the inside of *e'*, and the other in contact with an extension, *r*, from the rear end of *m*.

In use the crimping-plate *u* is operated by

means of the lever *g*, as usual. The distance which the crimping-plate *u* moves with each movement of the needle-bar can be adjusted by means of the screw *i*, the inner end of which comes in contact with the pin *f*. It is important that the crimping-plate *u*, at each movement, be carried back, so as to bring the crimped cloth back of the point of the needle, and unless there is a suitable adjusting device this result will not be accomplished properly after the parts become somewhat worn by use. I provide for this adjustment by means of the screw *i*, by means of which, as the parts wear, the movement of the crimper toward the needle can be adjusted.

I find that there is an advantage in hinging the bar *m*, which carries the crimping-plate, at its rear end, and holding it down by means of the spring *s*, this hinging giving freedom of movement, and allowing the crimping-plate to adapt itself to different thicknesses and conditions of cloth.

It will be observed that the rear portion of the device is in the rear of the presser-foot and at some distance above the cloth-line. This arrangement is desirable, as it allows the operator to readily watch the work, and the instrument being less liable to interfere with the movement of the cloth.

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

1. In a ruffler, the hinged bar *m*, provided with the plate *u*, in combination with the sliding bar *e* and spring *s*, substantially as described.

2. The combination of the socket *c*, sliding bar *e*, hinged bar *m*, operating-lever *g*, and presser-foot *a b*, substantially as and for the purpose specified.

3. In a ruffler, the lever *g k*, screws *i i'*, socket *c*, sliding plate *e*, and pin *f*, all constructed and operating substantially as specified.

WILBER HENRY CONVERS.

Witnesses:

CHARLES ROLLE,
HUD. B. POGUE.