

W. H. CONVERS.

Ruffing Attachment for Sewing Machines.

No. 168,141.

Patented Sept. 28, 1875.

Fig. 1.

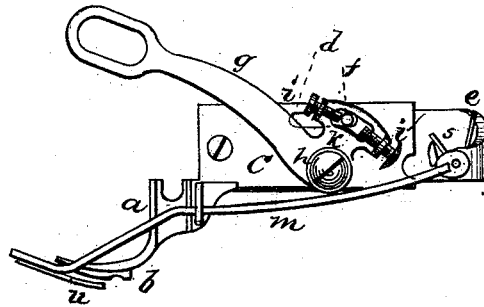


Fig. 2.

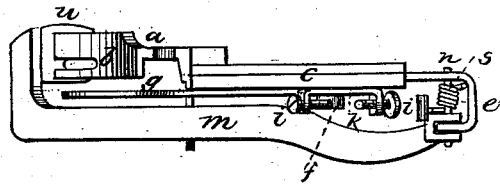


Fig. 3.



Fig. 4.

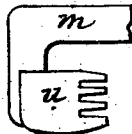
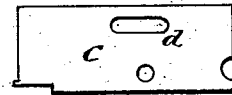


Fig. 5.



WITNESSES:

A. W. Bond  
M. C. Conner

INVENTOR:

Wilbur H. Convers.  
By A. W. Bond  
Attys

# 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 a 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.