

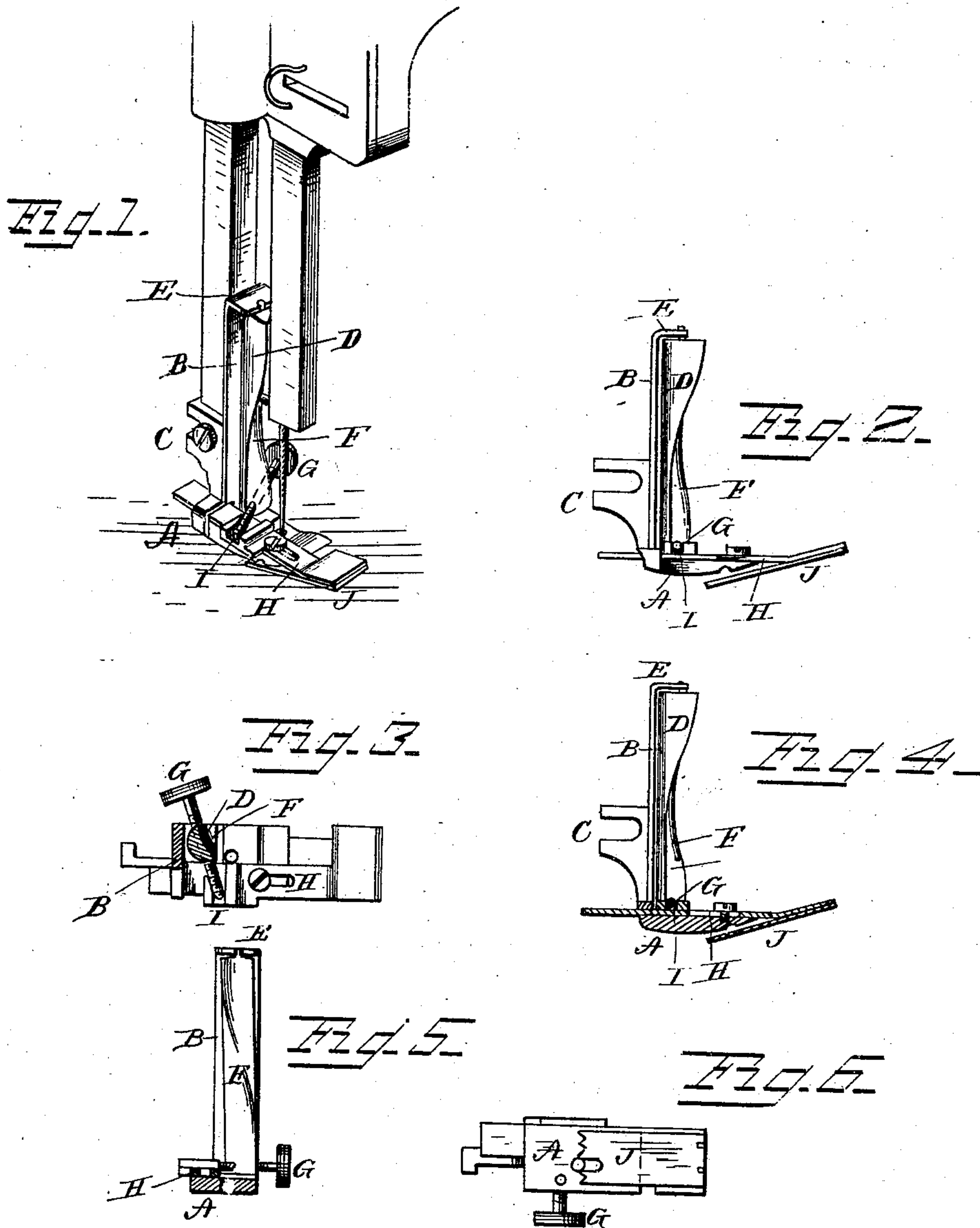
(No Model.)

T. B. GARRETSON.

RUFFLING ATTACHMENT FOR SEWING MACHINES.

No. 272,423.

Patented Feb. 20, 1883.



WITNESSES
F. L. Ourand

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INVENTOR

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UNITED STATES PATENT OFFICE.

THOMAS B. GARRETSON, OF OSKALOOSA, IOWA, ASSIGNOR TO THE GARRETSON RUFFLER COMPANY, OF SAME PLACE.

RUFFLING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 272,423, dated February 20, 1883.

Application filed September 22, 1882. (No model.)

To all whom it may concern:

Be it known that I, THOMAS B. GARRETSON, a citizen of the United States, residing at Oskaloosa, in the county of Mahaska and State of Iowa, have invented a new and useful Ruffling and Shirring Attachment for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a perspective view of my improved ruffling and shirring attachment for sewing-machines. Fig. 2 is a side view of the same. Fig. 3 is a horizontal sectional view. Fig. 4 is a vertical longitudinal sectional view. Fig. 5 is a vertical transverse section, and Fig. 6 is a bottom plan.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to an improved ruffling and shirring attachment for sewing-machines, the construction and operation of which will be hereinafter more fully described, and particularly pointed out in the claims.

My improved device, which is adapted to be attached to the presser-bar of a sewing-machine, embodies in its construction a presser-foot, A, attached to the lower end of an arm or plate, B, having a projection, C, or any suitable means for attaching the same to the presser-bar.

D is a vertical rock-shaft, provided at its upper and lower ends with spindles, by which it is mounted, respectively, in a bracket, E, at the upper end of plate B, and in the presser-foot A. The front side or face, F, of the shaft D forms a spiral, as shown, and said shaft is provided at its lower end with a transverse set-screw, G.

Suitably mounted upon the presser-foot A is a slide, H, having a longitudinally-reciprocating motion. Said slide is suitably connected with and receives its motion from the set-screw G, the point of which may simply rest in a transverse notch, I, in said slide. It is evident that by adjusting the set-screw the lever, formed by its end or point, may be lengthened or shortened, as desired, thus regulating the stroke or movement of the slide H.

Secured to the front end of the slide H is the elastic ruffling-blade J, which extends rearwardly under the presser-foot, so as to push

or feed the fabric in the manner usual in devices of this class.

The device is to be so arranged in relation to the needle-bar that the needle-clamp, or, in default thereof, some smooth, hard projection or stud suitably formed upon or attached to the needle-bar, shall be in contact with the spiral face of the rock-shaft, for the purpose of operating the latter by the up-and-down motion of the needle-bar.

The operation of my invention is obvious. Its advantages will be also readily appreciated, consisting, principally, in the great simplicity and certainty of action caused by the entire absence of springs.

I would have it understood that, without departing from the nature of my invention, many modifications in construction may be made. Thus the rock-shaft D may be arranged in front or at either side of the needle-bar, other changes in the construction of details being made to correspond therewith. The method of connecting the set-screw G with the slide H and of mounting the latter upon the presser-foot may also be varied as desired or as occasion may demand.

I claim and desire to secure by Letters Patent of the United States—

1. In a ruffling and shirring attachment for sewing-machines, a rock-shaft provided with a transverse set-screw engaging and adapted to operate the slide carrying the ruffling-blade, as set forth.

2. In a ruffling and shirring attachment for sewing-machines, the longitudinally-reciprocating slide carrying the ruffling-blade, and provided with a transverse notch to receive the point or end of a set-screw adjustable in a rock-shaft, whereby motion is imparted to said slide and the stroke regulated, as set forth.

3. In a ruffling and shirring attachment for sewing-machines, a rock-shaft having a spiral face, whereby it is adapted to receive its motion from direct contact with the needle-bar, or with parts attached to the latter, and provided with a transverse set-screw, engaging and operating and adapted to regulate the stroke of the slide carrying the ruffling-blade, as set forth.

4. As an improvement in ruffling and shirring attachments for sewing-machines, the

combination and arrangement, substantially
as described, of a plate adapted to be attached
to the presser-bar, and provided with a presser-
foot and with a bracket, a rock-shaft mounted
5 in said foot and bracket and having a spiral
face, a set-screw transversely adjustable in
said rock-shaft, and a slide mounted upon the
presser-foot and carrying the ruffling-blade,
said slide being suitably connected with, so as
10 to receive its motion from, the set-screw, as
herein set forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
presence of witnesses.

THOMAS B. GARRETSON.

Witnesses:

W. R. LACEY,
J. F. EVERETT,
JOHN F. LACEY.