

(No Model.)

M. G. COOK.

SEPARATOR PLATE FOR SEWING MACHINE RUFFLERS.

No. 457,254.

Patented Aug. 4, 1891.

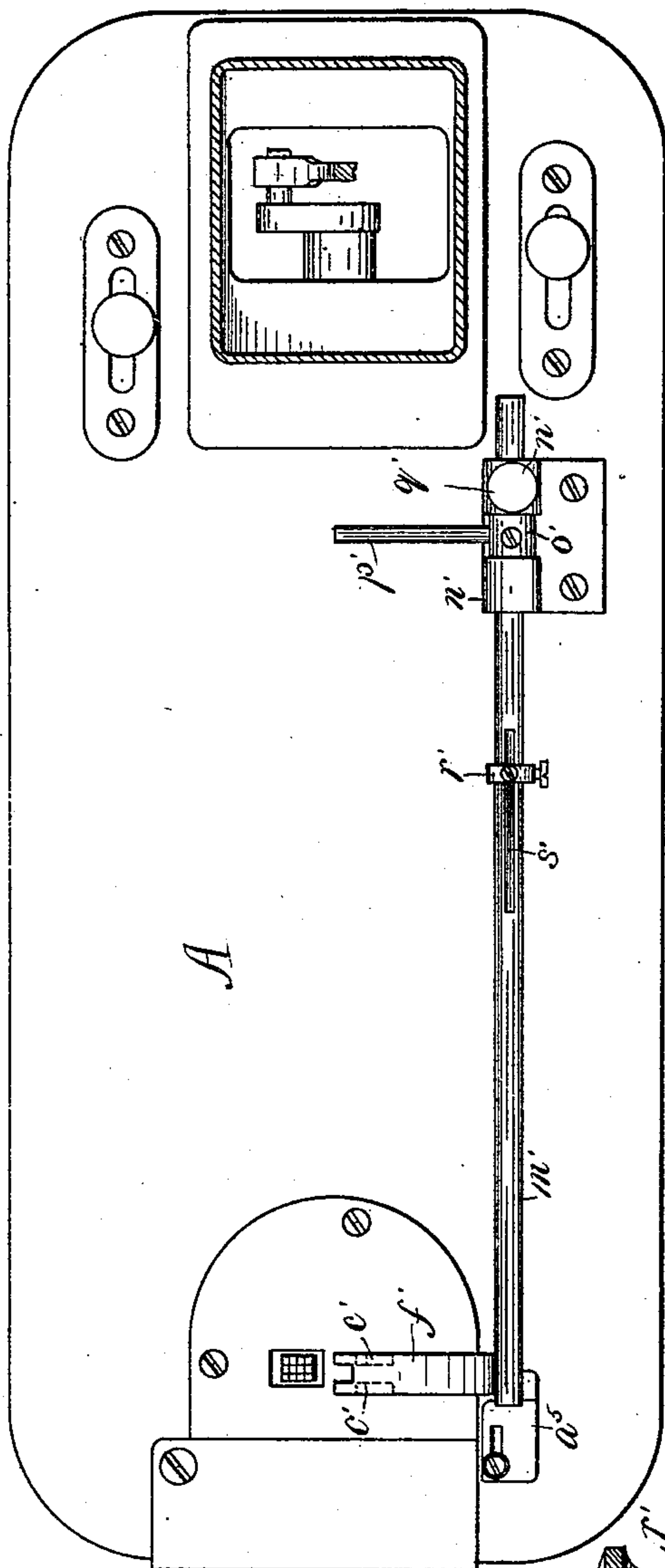


FIG. 1.

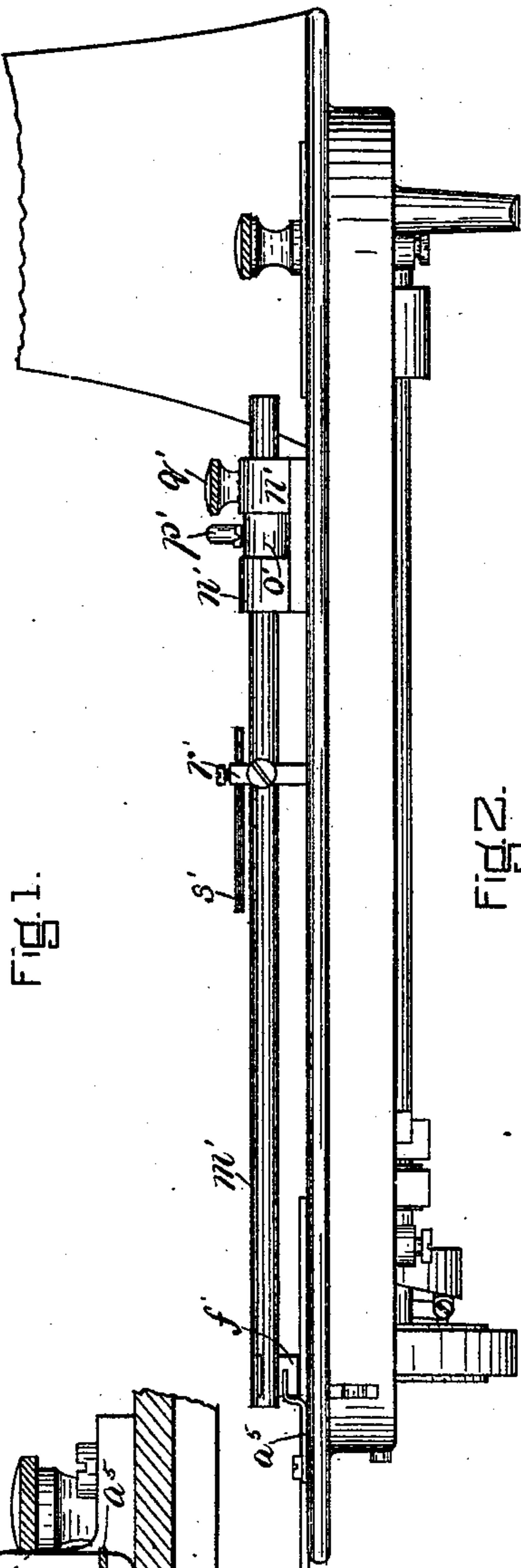


FIG. 2.

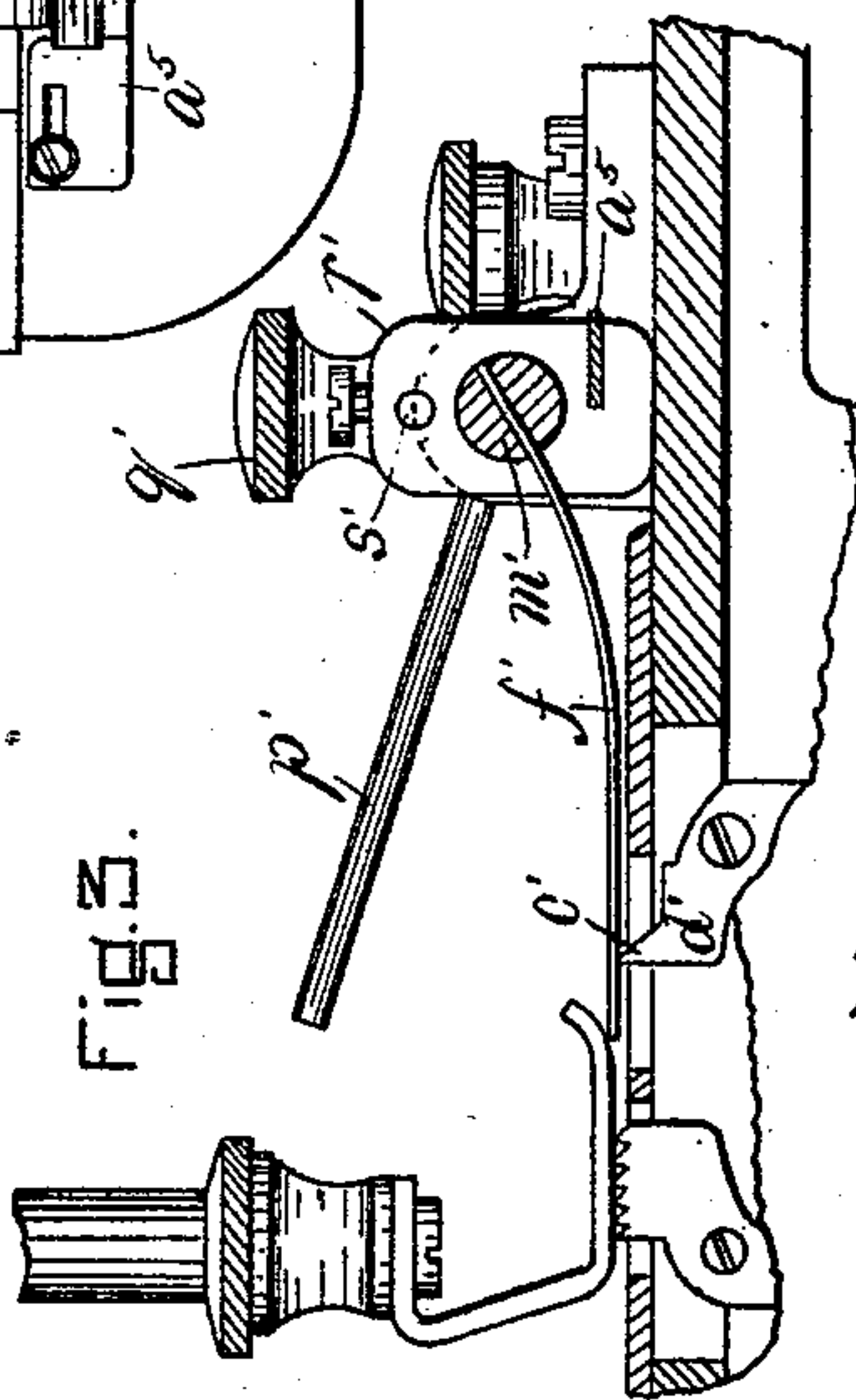


FIG. 3.

WITNESSES.

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MOSES G. COOK, OF ASHFIELD, MASSACHUSETTS, ASSIGNOR TO JESSE E. HALL AND ABBOTT L. HALL, BOTH OF SAME PLACE.

SEPARATOR-PLATE FOR SEWING-MACHINE RUFFLERS.

SPECIFICATION forming part of Letters Patent No. 457,254, dated August 4, 1891.

Application filed June 12, 1890. Serial No. 355,127. (No model.)

To all whom it may concern:

Be it known that I, MOSES G. COOK, of Ashfield, county of Franklin, State of Massachusetts, have invented certain new and useful Improvements in Rufflers for Sewing-Machines, of which the following is a specification, reference being had to the drawings accompanying and forming a part hereof, in which—

Figure 1 is a plan view of the work-plate of my machine with my improvement attached. Fig. 2 is a side elevation showing a portion of the work-plate and adjacent parts of the machine, as also my improvement. Fig. 3 is a front elevation showing the yielding separator-plate and its support, as also a part of the work table or plate in section.

A yielding ruffler-feed plate mounted above the work-plate of the machine and co-operating with the separator to gather the work in the operation of ruffling is old and well known.

The object of my present invention is to so mount said yielding plate that a strip of ruffling may be secured to a garment, as the bottom of a skirt, there being an opportunity for the skirt to pass over the separator-plate and for the ruffling-strip to pass underneath the same, but without interfering with the operation of the machine; and my invention consists in the means provided for mounting said yielding plate, as hereinafter described, and as is more particularly pointed out in the claims appended hereto and made a part hereof.

A is the work-plate of the ruffling or sewing machine.

d' represents the ruffler-feed, which may be of any well-known form and operated in any well-known manner.

c' is the slot in the throat-plate through which the ruffler-feed operates.

The yielding separator-plate is shown at *f'*, and consists of a strip of metal which is flexible and will bend under pressure and which is secured at one end in a rod *m'*, which is mounted in apertures in the lugs or projections *n'*, which are set on top of the work-plate toward the rear end thereof. These projections might be secured to the upright portion of the frame, although I prefer to set them on the

work-plate, as shown. At one point on the said rod *m'*, preferably between the lugs *n'*, is secured a collar *o'*, which is clamped rigidly to the said rod by means of a set-screw and which is provided with a handle *p'*. A set-screw *q'* in one of the lugs serves to secure the rod *m'* in any desired position. To increase the pressure of the separator-plate *f'* against the ruffler-feed and the throat-plate it is only necessary to loosen the set-screw *q'*, press the handle downwardly sufficiently to gain the required pressure on the plate *f'*, then set the screw *q'*, thus holding the rod *m'* rigidly in its new position. As the rod *m'* extends backwardly to the rear of the work plate or table and sufficiently above said table to permit the ruffling-strip to pass between it and the table, a wide strip of cloth may be ruffled and at the same time secured to the garment or other object to which it is to be applied. While the rod *m'* is raised sufficiently from the work-plate to permit of the passage of a strip of cloth under said rod, the said rod is not so high as to interfere with the passage over it of the garment to which the strip of ruffling is to be secured, and said rod does not, therefore, obstruct the work-plate. On the rod *m'* a guide or gage *r'* may be secured, if desired. This guide consists of a block or collar strung on the rod and provided with a set-screw for securing it in any position thereon, and serves as a guide for both the strip which is to be ruffled as also for the goods to which the ruffling is to be secured, the goods passing, as heretofore described, over the rod *m'* and the ruffling-strip passing below said rod and the edges of both butting against the guide *r'*. For the purpose of more certainly holding and guiding the cloth or garment, a small rod *s'* is set in the guide *r'* parallel to and a short distance from the rod *m'*. The edge of the garment passes under the rod *s'*, and is thus prevented from getting out of position. By this arrangement the yielding separator-plate is secured in position and may be adjusted as desired without obstructing the passage of the goods or ruffling-strip over the work-plate of the machine.

What I claim is—

1. In a sewing-machine, the combination, 100

with the work-plate thereof and with a ruffling-feed below said work-plate, of a yielding separator-plate f' above said work-plate, a supporting-rod m' , to which said separator-plate is secured, said rod being arranged close to and parallel with the said work-plate, or approximately so, and extending nearly the entire length of said plate, and means for securing said rod in place to said work-plate near the rear end of the latter, leaving an unobstructed space below said rod throughout the greater part of its length, whereby the work may pass over said rod and a wide strip to be ruffled may pass beneath the same, as set forth.

2. The combination, in a sewing-machine, with the stitch-forming mechanism and a ruffler-feed, of a yielding separator-plate f' , a rod m' , handle p' , set-screw q' , and projections n' , substantially as shown and described.

3. The combination, in a sewing-machine, with the stitch-forming mechanism and a ruffler-feed, of a separator-plate f' , a supporting-rod m' , set parallel with the work-plate, and the gage r' , secured to said rod m' , substantially as shown and described.

MOSES G. COOK.

Witnesses:

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