

G. ROBINSON.

Sewing-Machine Attachment.

No. 67,803.

Patented Aug. 13, 1867.

Fig. 1.

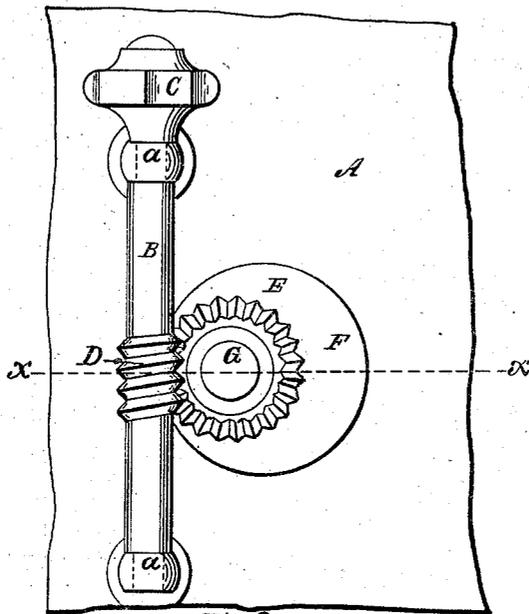
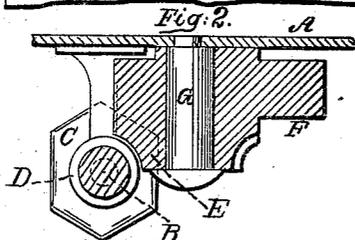


Fig. 2.



Witnesses;
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United States Patent Office.

GEORGE ROBINSON, OF DETROIT, MICHIGAN.

Letters Patent No. 67,803, dated August 13, 1867.

IMPROVEMENT IN FEED-REGULATOR FOR SEWING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE ROBINSON, of Detroit, in the county of Wayne, and State of Michigan, have invented a new and improved Stop-Attachment for Regulating the Length of Stitch in Sewing Machines, and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

This invention relates to a new and improved attachment for sewing machines, more especially designed for the Wheeler and Wilson machine, whereby the length of stitch may be regulated or varied, as desired, with far greater accuracy and facility than by the ordinary cam-attachment now used for that purpose. In the accompanying sheet of drawings—

Figure 1 is an inverted plan of a portion of the cloth-plate of a sewing machine having my improvement applied to it, and

Figure 2 a section of the same, taken in the line $x x$, fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a portion of the cloth-plate of a sewing machine, have two pendent bearings, $a a$, at its under side, in which the journals of a shaft, B, are fitted and allowed to turn freely. On one end of the shaft B there is a knob, C, for the convenience of turning it. On the shaft B there is a screw, D, which gears into a worm-wheel, E, which has a cam, F, formed or cast with it. This worm-wheel and cam are fitted on a stud, G, attached to the under side of the cloth-plate, and in such a position that the cam F will be in line with the feed of the machine, and the bar stopped thereby, so as to make a greater or less length of stroke by turning the shaft B, which, through the medium of the worm-wheel and screw, turns the cam F, the latter stopping the feed-bar at a greater or less distance, according to the length of radius the cam presents to the feed-bar as the latter comes in contact with the cam.

When a long stitch is required the short radius of the cam is presented to the feed-bar, and the length of stitch reduced by presenting a longer radius of the cam, the length of stitch being in accordance with the length of the radius of the cam presented to the feed-bar.

The worm and screw admit of the cam being turned with the greatest facility, and so that the length of stitch may be regulated with the greatest nicety.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The combination of the screw D on shaft B, with the worm-wheel E and cam F on the stud G, all being applied to the cloth-plate A of a sewing machine, to operate in the manner substantially as and for the purpose set forth.

GEORGE ROBINSON.

Witnesses:

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