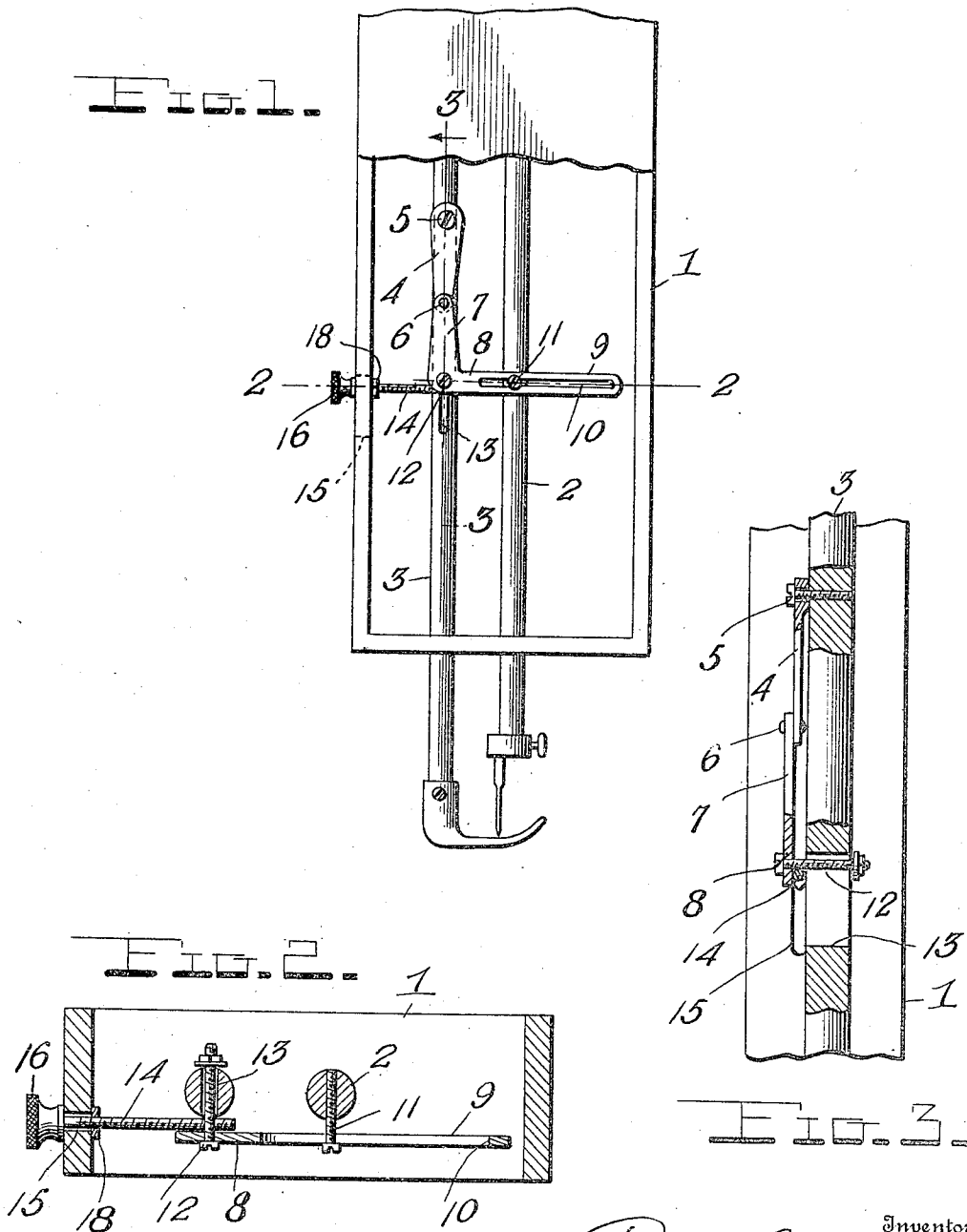


R. A. BELLAMY.
SEWING MACHINE.
APPLICATION FILED MAY 15, 1909.

951,794.

Patented Mar. 15, 1910.



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ROBERT A. BELLAMY, OF ELK CITY, OKLAHOMA.

SEWING-MACHINE.

951,794.

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To all whom it may concern:

Be it known that I, ROBERT A. BELLAMY, a citizen of the United States, residing at Elk City, in the county of Beckham and State of Oklahoma, have invented certain new and useful Improvements in Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in sewing machines and more particularly to an improved construction for operating the presser foot, whereby fancy work, button holes, darning, etc., may be done by an ordinary sewing machine.

The object of the invention is to provide a simple and practical mechanism by means of which the presser foot will be given both an upward and a downward movement while the needle bar makes one stroke so that the presser foot is allowed to rest on the cloth when the stitch is made and also when the stitch is tightened.

The above and other objects of the invention are attained in the preferred embodiment of the invention illustrated in the accompanying drawings, in which—

Figure 1 is a view of a portion of the head of a sewing machine with the invention applied to the same; and Figs. 2 and 3 are detail horizontal and vertical sectional views, taken, respectively, on the planes indicated by the lines 2—2 and 3—3 in Fig. 1.

Referring more particularly to the drawings, 1 denotes the head of a sewing machine of ordinary construction having the usual vertically reciprocating needle bar 2 and presser foot bar 3.

The invention comprises a link 4 pivoted at its upper end at 5 to the presser bar 3 and having its lower end connected by a rivet or other pivot 6 to the short arm 7 of a bell crank or lever 8. The long arm 9 of this lever or bell crank 8 is slotted longitudinally, as shown at 10, to receive the pin 11 projecting from the needle bar 2. At the angle of the lever 8 is a laterally projecting fulcrum pin 12 arranged in a vertical slot 13 formed in the presser bar 3. Said fulcrum pin 12 is adapted to be engaged and supported by a vertically adjustable member 14 preferably in the form of a screw arranged for movement in a vertical slot 15 in one wall of the head or support 1 and having on its outer end a milled finger piece or

head 16 and upon its inner threaded portion a clamping nut 18.

In operation, when it is desired to use the machine for embroidering, making button holes, darning, etc., the supporting pin or screw 14 is screwed in the upper portion of the slot 15 so that it will engage and support the fulcrum pin 12. When thus positioned, as shown in the drawings, and the machine is operated, the needle bar 2 will oscillate the slotted arm 9 of the bell crank or lever 8 vertically and the other arm 7 of said bell crank or lever will oscillate to cause the link 4 to raise and lower the presser bar 3 so that the latter will be given an up and down movement while the needle bar makes one stroke. When the pin 14 is arranged in the lower portion of the slot 15 the machine will operate in the ordinary manner.

While the preferred embodiment of the invention has been shown and described in detail, it will be understood that various changes in the form, proportion, arrangement and construction of parts may be resorted to within the spirit and scope of the invention.

Having thus described the invention what is claimed is:

1. The combination with the needle and presser bars of a sewing machine, of a horizontally disposed fulcrum, a bell crank lever pivoted at its angle on said fulcrum and having a vertically extending arm, and a horizontally projecting arm, the last mentioned arm having a slot and pin connection with the needle bar, and a link connection between the vertical arm of said bell crank and said presser bar.

2. The combination with the needle and presser bars of a sewing machine, of a normally inoperative link and lever connection between said bars for imparting two opposite movements to the presser bar during one movement of the needle bar and means for rendering said link and lever connection operative.

3. The combination with the needle and presser bars of a sewing machine, of a vertically adjustable fulcrum pin, a lever mounted on said pin and having a loose connection with the needle bar, whereby it will be operated by the latter and a link connection between said lever and the presser bar.

4. The combination with the head of a sewing machine and the needle and presser bars therein, said presser bar being formed with a vertical slot, of a fulcrum pin slid-
5 ably arranged in said slot, a lever on said pin and having a slot and pin connection with the needle bar, whereby the latter will operate it, a link connection between said lever and the presser bar and a vertically ad-justable member arranged on the head and adapted to engage and support said fulcrum pin. 10

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ROBERT A. BELLAMY.

Witnesses:

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J. G. INNES.