

T. C. Michener.

Sewing Machine.

N^o 69463

Patented Oct. 1, 1867.

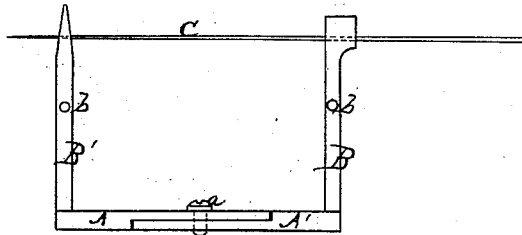


Fig. 1.



Fig. 2.

Witnesses

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THOMAS C. MICHENER, OF ST. LOUIS, MISSOURI.

Letters Patent No. 69,463, dated October 1, 1867.

IMPROVEMENT IN NEEDLE-SETTER 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, THOMAS C. MICHENER, of the city and county of St. Louis, and State of Missouri, have invented a new Instrument for Setting Needles in Sewing Machines; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of this invention consists in the formation of a holder for the needle, somewhat in the shape of the letter E, the vertical arm of which is adjustable as to length, and the horizontal arms are made with double spring ends, so as to embrace the needle between them, previous to its insertion into the machine. A small steel point between the two lower ends enters the eye of the needle, and thus fixes it to its proper relative position to the holder, preparatory to its insertion into the machine.

Figure 1, of the drawings, is a side elevation of the setting instrument, greatly enlarged for the purpose of illustration.

Figure 2 is a horizontal section of the lower arm, also enlarged for a similar reason.

The vertical arm A A' is made in two pieces, halved together, and secured in place by means of a screw, a, which passes through a slot in the piece A, and screws into the piece A'. By this arrangement of the vertical arm it may be lengthened or shortened so as to fit any sewing machine. At the upper end of the arm A A' there is a projecting arm, B, perpendicular to it, and a similar projecting arm, B', at the bottom. Each of the arms B B' is made of two thin springs, as clearly shown in fig. 2, and each pair of these springs is coupled together near their outer ends by means of a rivet, b, or a set thumb-screw might be used in lieu thereof. Between the two springs forming the lower arm B' there is a sharp-pointed piece, c, inserted. The pointed end of this piece projects a short distance (about the diameter of the needle) into the needle-seat, and the formation of the ends of the spring pieces, of which B and B' are formed, is such as to draw the needle C on to this point. This construction of the outer ends of B and B' is clearly shown in fig. 2, wherein it is shown that the needle-seat is about one-eighth of an inch (more or less) from the ends of the said arms. The needle C is to be placed in this instrument by inserting its point between spring ends of the arm B, and then pushing it down through the arm B' slowly until the eye of the needle is caught and stopped by the piece c passing into it. Care should be taken in inserting the needle into the arm B to have the eye of the needle directed toward the point c, in order that it may pass into the eye, when the same shall have arrived opposite the said point. As it is necessary to have the eye of the needle placed in a certain relative direction while in the machine, this arrangement will be found very beneficial, as the adjustment of the needle to the setting instrument can be much more readily made out of the machine than in it, and then when the needle is placed in the machine it will be easy to turn the setting instrument in the required direction, and the adjustment will be complete. By having the arms A A' adjustable as to length, as has already been described, the top edge of the arm B may be made to bear a certain fixed relative distance from the top end of the needle C, which may then be inserted into the machine until the arm B strikes it, and thus the proper distance of the eye of the needle from the arm of the machine can be readily fixed.

Having described my invention, what I claim is—

The combination of the spring arms B B' with the adjustable arm A A' and the pointed needle guide c, all arranged in the manner and for the purpose described.

THOS. C. MICHENER.

Witnesses:

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S. M. RANDOLPH.