

(No Model.)

E. C. JENKINS.
SEWING MACHINE NEEDLE THREADER.

No. 479,428.

Patented July 26, 1892.

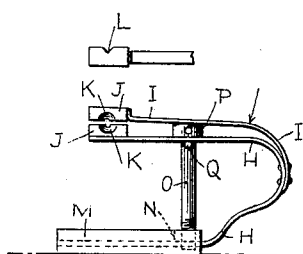
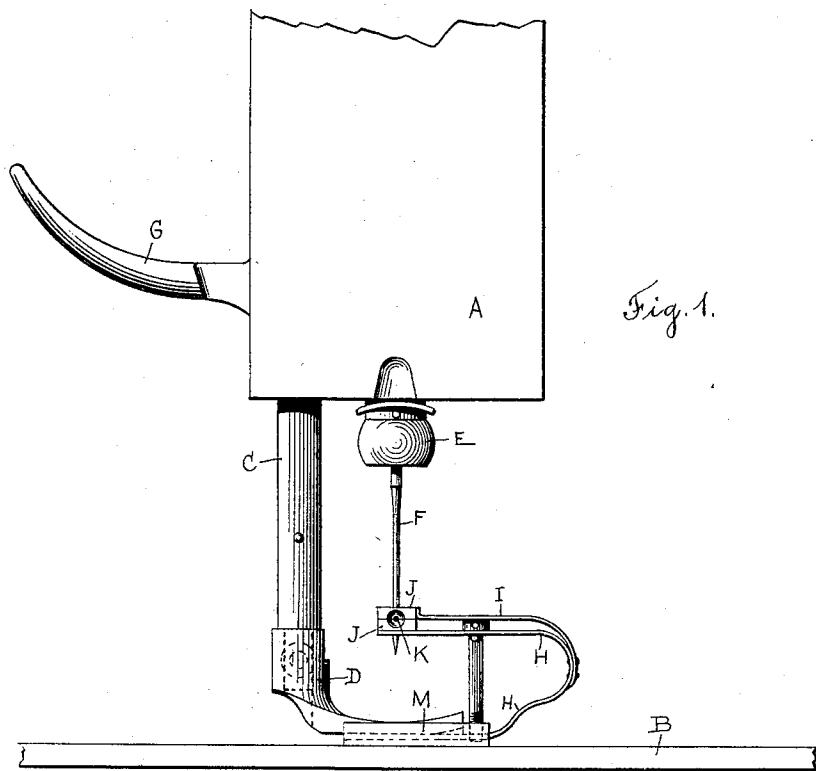


Fig. 2.

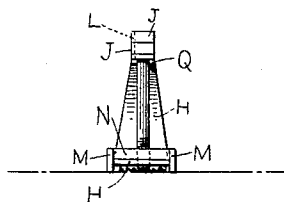


Fig. 3.

Witnesses
R. W. Southgate
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Inventor
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By his Attorney
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UNITED STATES PATENT OFFICE.

EBENEZER CURTIS JENKINS, OF SHREWSBURY, MASSACHUSETTS.

SEWING-MACHINE-NEEDLE THREADER.

SPECIFICATION forming part of Letters Patent No. 479,428, dated July 26, 1892.

Application filed November 5, 1891. Serial No. 410,933. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER CURTIS JENKINS, a citizen of the United States, residing at Shrewsbury, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Sewing-Machine-Needle Threaders, of which the following is a specification.

The aim of this invention is to produce a new and improved needle-threader for sewing-machines; and to this end the invention consists of the device described and claimed in this specification, and illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of part of a sewing-machine with my device applied thereto. Fig. 2 is a front elevation of the device with the thread-guide opened, and Fig. 3 is a side elevation of the device.

In detail, A represents the head, B the table, C the presser-bar, D the presser-foot, E the needle-bar, and F the needle, of a sewing-machine of any of the usual constructions. The presser-foot is raised by any of the usual means—as, for an example, by the lever G, which operates the usual cam mechanism in the head.

My improved threading device consists of a frame carrying a thread-guide that may be slipped under and held in place by the presser-foot. The device consists of the strip of metal or spring H, which is curved or bent as shown. On the top of this spring is formed or fastened another spring I, and on the end of the spring H is formed or fastened one half and on the end of the spring I is formed or fastened the other half of a divided thread-guide. While I prefer to use this form of threader, I contemplate using any other of the usual and equivalent threaders. This divided thread-guide J has the usual conical hole K to guide the thread into the eye of the needle and the groove or slot L on the back of the same to engage the needle. On the lower end of the spring H are formed or fastened the side pieces M M, which extend above and below spring H, for purposes hereinafter described. Between the side pieces M and on top of spring H is formed or fastened the cross-piece N. Tapped into this cross-piece N is the screw O, the head P

of which rests between springs H and I, as shown. Below the spring H a pin Q is driven through the screw O, and the head P has holes, as shown, so that a pin may be inserted in the same and the screw O thereby turned. The distance between the side pieces M is just the width of the presser-foot.

My device is used as follows: The needle is first set at any predetermined point, preferably the highest point in the travel of the same, and the presser-foot is then slightly raised and the lower end of the spring slid under the same. The presser-foot is now allowed to spring back, and thus the device will be quickly and exactly put in place, as the pieces M, bearing on the side of the presser-foot, will exactly guide the device, and the device is pushed in until the end of the presser-foot bears on the cross-piece N, when the groove L will engage the needle in the usual manner. The thread is then inserted into the thread-guide through the eye of the needle, and the device is now pulled out by catching hold of the springs I and H and by bearing down on the spring I at the point indicated by the arrow in Fig. 2. The spring I will fulcrum on the head P, as shown; and the upper part of the thread-guide will be lifted from the lower part, so that the thread will be clear of the guide as the device is pulled away from the presser-foot. Thus the needle can be quickly and accurately threaded. By means of the screw O the guide may be adjusted so as to register with the eye of the needle. The idea in extending the side pieces M below the spring H is so that the said spring will clear the feeding device in the table. Thus my device forms a complete marketable article by itself and does not have to be attached to any part of the machine. Of course the device may be constructed and varied to operate with any sewing-machine in which a presser-foot is used.

Modifications of the construction herein shown and described may be made by a skilled mechanic without departing from the scope of my invention.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination of a frame, a thread-

- guide suitably attached to said frame, and side flanges M, fastened to said frame, the distance between said flanges being substantially the width of the presser-foot of a sewing-machine, the whole being arranged so that the device may be held in place by the presser-foot and the thread-guide in register with the eye of the needle, substantially as described.
- 10 2. The combination of spring H, bent as described, the spring I, fastened to the spring H, each spring carrying at the end thereof a member of a divided thread-guide, and a fulcrum mounted between the springs, and the
- 15 flanges M, fastened to the spring H, whereby the device may be set in place on a sewing-machine, substantially as described.
3. The combination of spring H, bent substantially as described, a divided thread-
- guide carried by said spring, and the pieces 20 M M, fastened to said spring H, said flanges extending above and below the spring H, for the purpose set forth.
4. The combination of spring H, spring I, fastened thereto, the thread-guide J, carried 25 by said springs, the flanges M, fastened to the spring H, the cross-piece N, and the screw tapped in said piece N, the head P of said screw resting between said springs H and I, substantially as described.
- 30 In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.
- EBENEZER CURTIS JENKINS.
- Witnesses:
LOUIS W. SOUTHGATE,
R. H. SOUTHGATE.