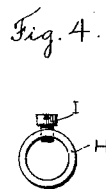
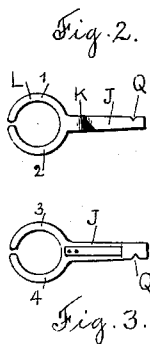
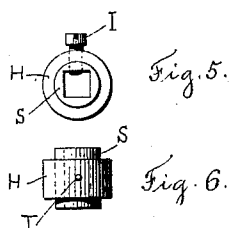
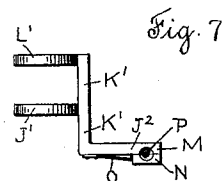
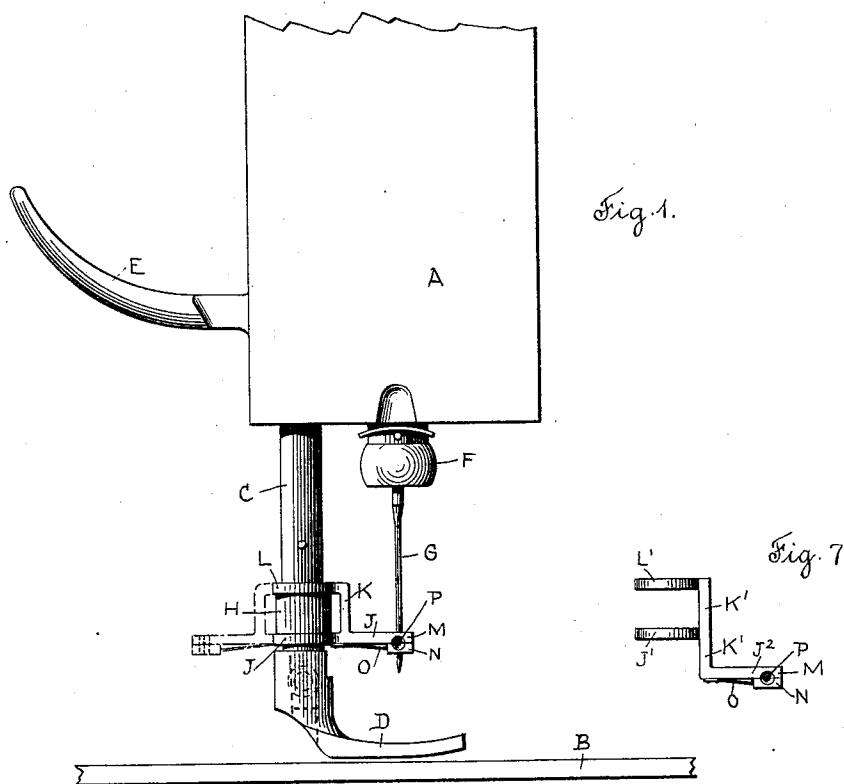


(No Model.)

E. C. JENKINS.
NEEDLE THREADER FOR SEWING MACHINES.

No. 479,427.

Patented July 26, 1892.



Witnesses
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J. J. Rafferty

Inventor
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UNITED STATES PATENT OFFICE.

EBENEZER CURTIS JENKINS, OF SHREWSBURY, MASSACHUSETTS.

NEEDLE-THREADER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 479,427, dated July 26, 1892.

Application filed November 5, 1891. Serial No. 410,932. (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 it 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 top view of the swiveling thread-guide. Fig. 3 is a bottom view of the same. Fig. 4 is a top view of the collar mounted on the presser-bar. Figs. 5 and 6 are a top and a side view of a form of collar adapted to a square presser-bar, and Fig. 7 is a side elevation of a modified form of the swiveling thread-guide.

In detail, A represents the head, B the table, C the presser-bar, D the presser-foot, E, the lever for raising and lowering the presser-bar C, F the needle-bar, and G the needle, of a sewing-machine of any of the usual constructions.

My improved threading device consists of a thread-guide, preferably of the divided form, mounted on the arm or frame so as to swivel on the presser-bar.

H represents a collar that is bored to fit on the presser-bar or on a bush, as hereinafter described, and which is held at any point vertically on the presser-bar by the set-screw I. An arm J is formed, as shown, and from the arm J rises the vertical arm or bridge-piece K, to which is fastened the semicircular spring or piece L. The collar H just fits between the springs J and L, and the latter are formed so as to constitute the four spring arms or jaws 1, 2, 3, and 4, which embrace and tightly clasp the presser-bar. The piece J at its end is formed so as to constitute one member of a divided thread-guide, and the other member N is held to the member M by the spring O, fastened to the piece J. This divided thread-guide has the usual tapered hole P and the

groove Q on the back of the same for engaging the needle. In some instances the presser-foot extends so far up on the presser-bar that the arm J, if made straight, could not register with the eye of the needle. In these cases I modify or extend the bridge-piece down, as at K', Fig. 7, and fasten the lateral arm J² and the bearing-pieces J' and L' to the same. With this construction I can drop the thread-guide to any desired point. In some instances the presser-bar is made of a square cross-section. Where this is the case, I use a double collar, as H and S, Fig. 6, the collar S being mortised to fit on the presser-bar, the collar H fitting on the collar or bush S, and the springs J and L of the swivel-piece fitting on the extended circular ends of collar S. The collars H and S are held together by set-screw I, and, also, if desired, they may be pinned together, as at T, when the swivel-piece has once been placed on said collar. It will be seen that the collar S simply forms a bush for collar H and the springs J and K, so that the device can be applied to a presser-bar which is not circular in cross-section.

The operation of my device is apparent, and is as follows: The needle is raised to its highest position, the thread-guide swung in front of the same, and the thread introduced into the eye of the needle in any of the usual manners, as through the divided thread-guide shown. The thread-guide is then turned back, as indicated in dotted lines, Fig. 1, out of the way and the thread is drawn out of the guide in the usual way. The springs 1, 2, 3 and 4 will hold the thread-guide in this position, so that the same cannot shake around in way of the needle as the machine is operated. With this construction I therefore provide a cheap, simple, and efficient threading device that is not at all in the way, and as the same is mounted on the presser-bar—a stationary part—there is no tendency to shake or vibrate in way of the needle. I contemplate in some instances using the equivalent hook as the threading appliance instead of the divided thread-guide shown.

It will be seen that by loosening the screw I the device can be nicely adjusted on the presser-bar, so as to exactly register with the

eye of the needle, and that then by tightening the screw I the device will be held in its adjusted position.

Modifications of the device herein described
5 and shown 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
10 Patent, is—

1. The combination of the presser-bar, the collar loosely mounted on the same, means, as a set-screw, for holding the collar in vertical adjustment, the arm J, bridge-piece K, and
15 piece L, united as described, the pieces J and K being journaled on the presser-bar below and above the collar, and the thread-guide carried by the arm J, whereby the thread-guide may be turned laterally relatively to
20 the presser-bar and vertically adjusted on the presser-bar by collar H, substantially as described.

2. The combination of the presser-bar, the collar H, held on the same, the frame having a bearing above and below said collar, the frame
25 having the spring-arms 1, 2, 3, and 4, and the thread-guide carried by the said frame, substantially as described.

3. The combination of a presser-bar, the collar H, mounted on a collar S or bush held
30 on said presser-bar, the ends of said bush projecting above and below said collar H, and a frame carrying a threading device, said frame being journaled on the projecting ends of
35 said bush, and thus on the presser-bar, substantially as described.

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.