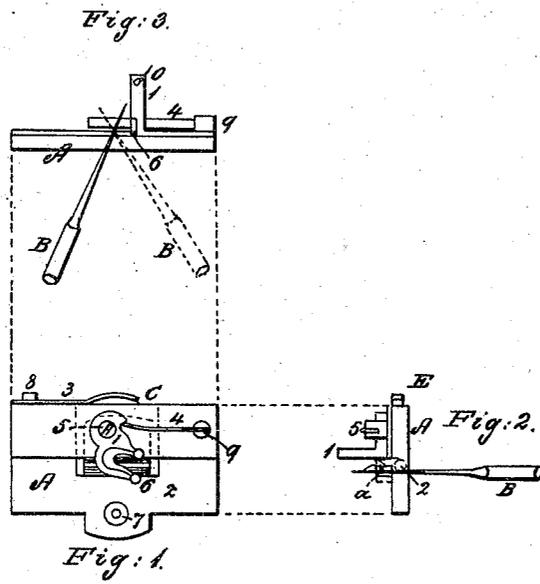


T. D. JACKSON.
Sewing Machine.

No. 21,299.

Patented Aug. 24. 1858.



UNITED STATES PATENT OFFICE.

TIMOTHY D. JACKSON, OF NEW YORK, N. Y., ASSIGNOR TO JOSEPH W. BARTLETT, OF SAME PLACE.

IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 21,299, dated August 24, 1858.

To all whom it may concern:

Be it known that I, TIMOTHY D. JACKSON, of the city, county, and State of New York, have invented a new and useful Improvement in Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, figures, and letters of reference thereon, making part of this specification.

Of the said drawings, Figure 1 represents a top view of a cloth-holder (and my operative mechanism) for securing the material to the table during the progress of sewing. Fig. 2 denotes an end view of the same. Fig. 3 shows a side or edge view of the same and the position of the needle.

My invention is designed to apply to tambour-machines, or, as they are more generally called, "single-thread" machines.

The nature and object of the first part of my invention consists in the employment and use of a yielding roller so arranged as to close the barb of the needle during the perforation of the material, and also during the retraction of the needle, to prevent the barb catching in the material; and the nature of the second part of my invention consists in arranging and combining with a flexible roller a swinging thread-guide which shall always carry the thread in position for the barbed needle to catch it.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents a cloth-holder, which is to be suitably mounted and attached by a rod or bar at 7, Fig. 1, to the machine, that it may be drawn away from the table to release the goods when sewed, and adjusted to hold the material while sewing.

B is the needle, which is shown in Fig. 3 in an inclined position and by its vibration feeds the material.

C is a bar inserted in the plate A, which reciprocates by the action of the needle and spring 3, which spring is secured to the cloth-holder at 8. This reciprocating bar forms the bearings for the roller 2, as plainly shown in Fig. 1. 1 is a swinging thread-guide having its fulcrum at 5 by means of a pin or screw in the

plate A, and is governed in its movements in one direction by the needle and in the opposite by a spring, 4, secured at 9, and by a fixed pin, 6, Fig. 1.

Operation: The cloth-holder and its devices being properly attached to a sewing-machine and motion being imparted to the needle-stock causes the needle to pass up through the cloth-holder and between the roller 2 and the side of the holder near the stationary pin 6, the barb on the needle being on the side next the roller, as shown in Fig. 2 at *a*, the roller 2 being shown in dotted lines. As the needle retracts from the goods, the guide 1 (which has a hole for the passage of the thread at 10, Fig. 3) is pressed upon by the needle in its vibration and swings so as to carry the thread with certainty across the path of the needle, and the barb on the needle pressing against the roller closes it effectually, so as to prevent any more of the material from the barb in either direction of the needle. The importance of this yielding roller is to prevent the breaking and injury of barbed needles in sewing-machines, as it readily yields for the needle, while it at the same time serves to properly support it. In all machines of this character the breaking and wearing out of needles is a serious detriment, as the operation of closing the barb over a stationary bar soon wears away the barb and unfits it for use. The office of the thread-guide is merely to carry the thread in position for the needle to catch it, and in no way operates upon the barb of the needle to close or open it.

Having thus described my improved sewing-machine, I claim—

1. The employment of a yielding roller, constructed as desired, for the purpose of closing the barb of the needle during its movements, substantially as set forth and specified.

2. In combination with a yielding roller, the swinging thread-guide to carry the thread in position for the needle to insure the stitch, as set forth.

TIMOTHY D. JACKSON. [L. s.]

Witnesses:

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