R. R. MOFFATT.

Sewing-Machine Attachment.

No. 110,267. Patented Dec. 20, 1870.

Fig. 1.

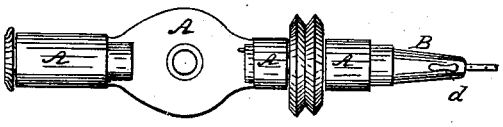


Fig. 2.

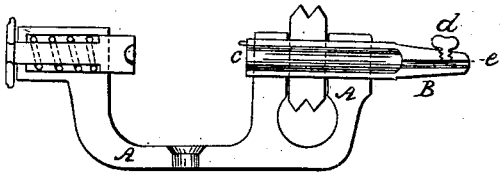


Fig. 3.

Fig. 4.

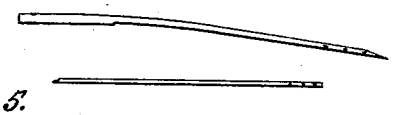
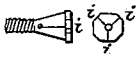


Fig. 5.



Witnesses:

Thos. H. Grant

Houghton Wheeler

Inventor:

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UNITED STATES PATENT OFFICE.

RICHARD R. MOFFATT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN BOBBIN-WINDING AND NEEDLE-SHARPENING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **110,267**, dated December 20, 1870.

To all whom it may concern:

Be it known that I, RICHARD R. MOFFATT, of Brooklyn, in the county of Kings and State of New York, have invented certain Improvements in Sewing-Machines, of which the following is a specification.

In the drawings accompanying this specification, Figure 1 represents a top or plan view of bobbin-stand (of a sewing-machine) which embodies my invention. Fig. 2 represents a (side) central section of the same. Fig. 3 represents a sectional view of a spindle, such as is used in Wheeler & Wilson's sewing-machine, for holding the bobbin-wheel. Fig. 4 represents the needle. Fig. 5 represents a chuck used in connection with the spindle shown in Fig. 3.

Similar letters of reference in the several figures indicate like parts.

The nature of this invention consists in applying a device to a sewing-machine for sharpening the end or point of needles, by so constructing the machine that a needle may be firmly held and caused to revolve in such a manner as to enable a person to sharpen the end of said needle by means of an emery-file or sharpening-stone.

It also consists in making two or more eyes in the needle, and locating said eyes so that in case the needle should break at or near the first eye the needle can be repointed and used.

In the annexed drawings, letter A, Figs. 1 and 2, represents a bobbin-stand used in many kinds of sewing-machines.

B is the driving-shaft or spindle, which is made with an opening, C, throughout its entire length, as shown in Fig. 2. Near the outer end of the spindle B is a thumb-screw, D, which firmly holds the needle E in the opening C.

Fig. 3 represents a revolving spindle used in other sewing-machines. This spindle is made hollow to admit of the insertion of a needle, and has a chuck device, D, at its end for holding the needle firmly.

The chuck D′ is made of metal, and is constructed with a screw-thread on one end and an inclined surface at the other. It has an opening through its center, through which the needle passes, and open slits I, which allow of its being compressed so as to decrease the size of the opening C′, and thus firmly hold the needle in the opening E. Various other chucks and holding devices may be used for firmly securing the needle in the revolving spindle.

The manner of operating this invention is as follows: The needle to be repointed or sharpened is inserted into the opening E of the revolving spindle B, with its end projecting, as seen in Fig. 1, and is thus firmly secured and held in place by means of the thumb-screw D or chuck D′. The spindle is then revolved by means of a cord or rubber friction-wheel. An emery file or stone is then applied, which soon points the needle.

Having thus fully described my invention and the manner of operating the same, I desire to secure by Letters Patent—

A bobbin-winding attachment, substantially as herein described, the portion thereof carrying the driving-wheel being made hollow, and provided with a clamp to hold a needle, substantially as and for the purpose set forth.

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Witnesses:
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