J. V. MORTON.

NEEDLE-CLAMPS FOR SEWING-MACHINES.

No. 191,362. Patented May 29, 1877.

Fig: 1.

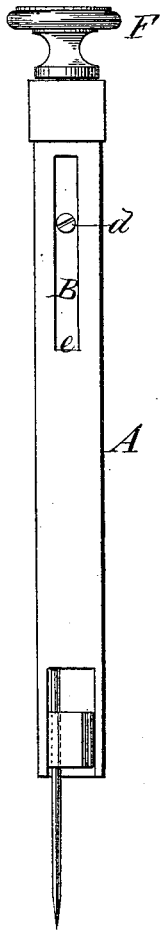


Fig: 2.

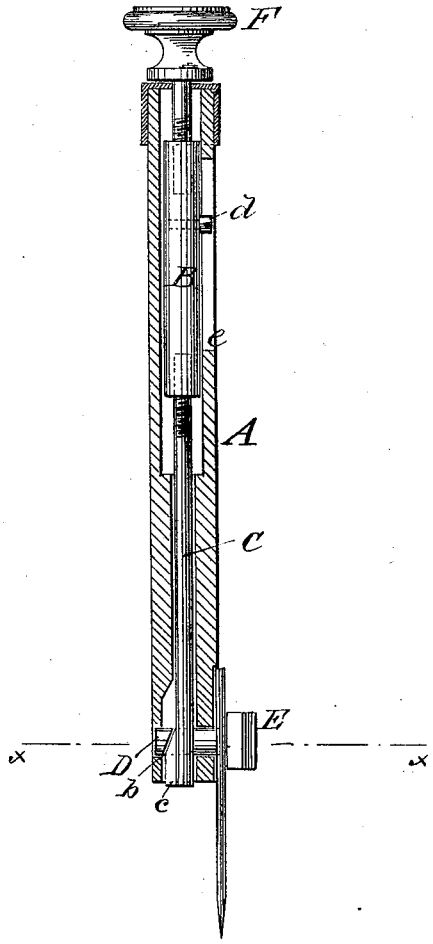
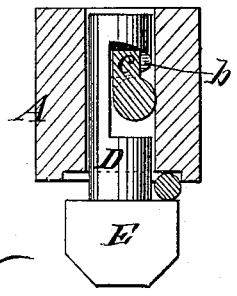


fig: 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH V. MORTON, OF WINCHESTER, KENTUCKY.

IMPROVEMENT IN NEEDLE-CLAMPS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **191,362**, dated May 29, 1877; application filed March 19, 1877.

To all whom it may concern:

Be it known that I, JOSEPH V. MORTON, of Winchester, in the county of Clarke and State of Kentucky, have invented a new and Improved Needle-Clamp for Sewing-Machines, of which the following is a specification:

Figure 1 is a side elevation of a needle-bar containing my improvements. Fig. 2 is a longitudinal section of the same, looking toward the side of Fig. 1. Fig. 3 is an enlarged transverse section on line *x x* in Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention consists in the arrangement of a clamping-bolt, having a head for clamping the needle, and a shank that extends into a transverse hole bored in the lower end of the needle-bar, and is notched to engage a wedge-shaped projection on a rod that extends upward in a hole bored longitudinally through the needle-bar, and is capable of being drawn upward by a milled screw at the top of the needle-bar, so as to draw the clamping-bolt into the bar and clamp the needle.

In the drawing, A is a needle-bar of a sewing-machine that is bored longitudinally to receive the rods B C.

A transverse hole is bored partly through the lower end of the needle-bar to receive the bolt D, having the head E and the slot *b*, which is widest at its lower side, and is fitted to a wedge-shaped projection, *c*, on the lower end of the rod C.

The rod C screws into the rod B, which is of larger diameter, and is provided with a screw, *d*, that projects through a slot, *e*, in the side of the needle-bar, to prevent it from turning.

F is a screw that engages a thread cut in the upper end of the rod B, and is designed to draw the rods B C upward in the bar. It is provided with a milled head, by which it may be turned.

The operation of clamping the needle consists in placing it under the head E of the bolt D, and turning the screw F until the head of the said bolt is drawn by the action of the wedge *c* against the needle with sufficient force to retain it.

The advantages claimed for my improvement are, that it fastens the needle without the aid of wrenches or screw-driver, and as the hands are separated by the length of the needle-bar, more space is afforded for handling and adjusting the needle.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the bolt D, having the slot *b* and head E, the rod C, having the wedge-shaped projection *c*, rod B, and screw F, with the needle-bar A, substantially as herein shown and described.

JOSEPH V. MORTON.

Witnesses:
GEO. RICHTER,
P. B. DUDLEY.