

J. SLACK.

Needle and Shuttle Threaders and Knives.

No. 143,726.

Patented Oct. 14, 1873.

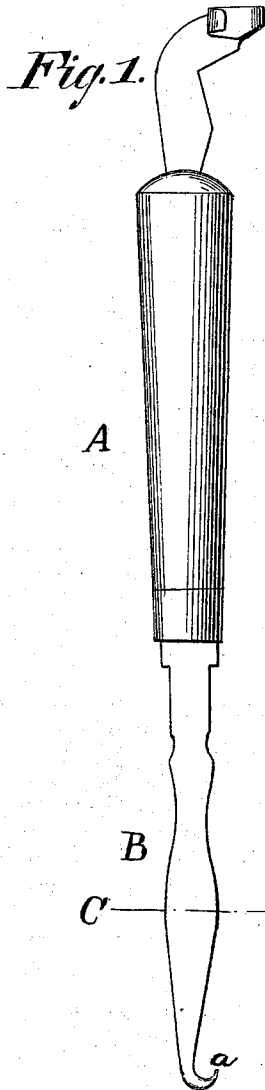


Fig. 2.

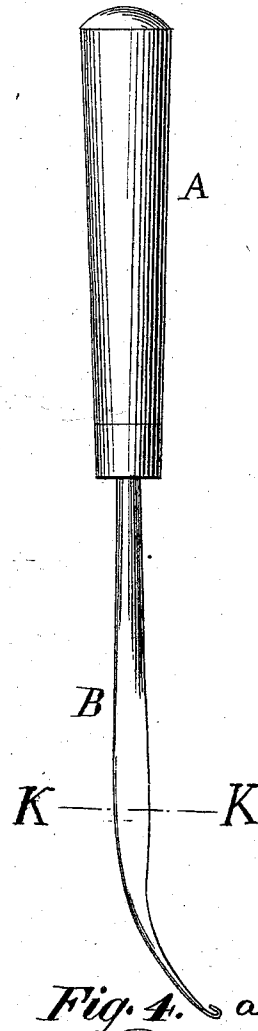


Fig. 3.



Fig. 4.



Witnesses
John Becker.
Fred Haynes

John Slack
by his Attorneys
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UNITED STATES PATENT OFFICE.

JOHN SLACK, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN NEEDLE AND SHUTTLE THREADERS AND KNIVES.

Specification forming part of Letters Patent No. **143,726**, dated October 14, 1873; application filed June 5, 1873.

To all whom it may concern:

Be it known that I, JOHN SLACK, residing at Brooklyn, in the county of Kings and State of New York, a subject under the crown of Great Britain, have invented an Improved Needle and Shuttle Threader and Knife combined, of which the following is a specification:

This invention has for its object to combine into a single instrument several of the more important implements which are employed in the manipulation and operation of a sewing-machine. It combines a needle-threader, a disentangler, a shuttle-lifter, and a knife. The invention consists in a peculiarly-shaped blade, curved at its termination, and running out into a hook. This blade is attached to a suitable handle, which may also be provided with a spring-clasp for retaining the thread while threading the needle. Either the blade or the clasp, or both, may be sharpened at either or both of their sides, so that they may be used as knives. With the hook the thread may be easily disentangled, and by the same means the shuttle lifted out of its place, and the needle as well as the shuttle threaded.

Figure 1 in the drawing is a side view of my improved implement, showing it combined with the spring-clasp. Fig. 2 is a side view of a modification of the same. Fig. 3 is a section through the line *c c* of the blade of Fig. 1. Fig. 4 is a section through the line *k k* of the blade of Fig. 2.

Similar letters of reference indicate corresponding parts in all the figures.

The letter A represents the handle of my instrument. B is the blade, which is bent into a hook, *a*, as shown in Fig. 1.

This instrument is specially adapted for use in sewing-machines not provided with a shuttle, it being then employed to disentangle the thread, or to thread the hook or needle, as well as to serve as a knife for cutting the thread, &c.

The modification of my instrument represented in Fig. 2, is intended to be employed in a sewing-machine provided with a shuttle.

The blade B is then curved so that it may be entered beneath the shuttle to lift it out of its place, while the hook *a* serves for the same purpose as in Fig. 1. The blade is sharpened at one or both of its sides, to serve as a knife for cutting thread, repairing the belt, &c.

In Fig. 3 the blade is shown when sharpened on both of its sides; in Fig. 4 it is sharpened on but one.

What I claim as my invention, and desire to secure by Letters Patent, is—

As a new article of manufacture, the thread-cutting and threading instrument, substantially as described.

JOHN SLACK.

Witnesses:

F. V. BRIESEN,
MICHAEL RYAN.