A. M. LESLIE.

Thread-Cutters for Sewing-Machines.

No. 138,412. Patented April 29, 1873.

Fig. 1.

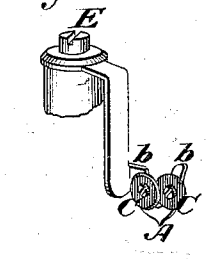

Fig. 2.

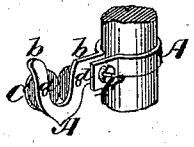

Fig. 3.

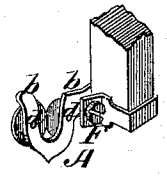

Fig. 4.

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ARTHUR M. LESLIE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN THREAD-CUTTERS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. **138,412**, dated April 29, 1873; application filed October 2, 1872.

To all whom it may concern:

Be it known that I, ARTHUR M. LESLIE, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Thread-Cutter for Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a perspective view of the thread-cutter applied to the top of a needle-bar. Fig. 2 is a similar view, showing its application to the body of a round needle-bar. Fig. 3 is a perspective view of the cutter applied to a square needle-bar, and Fig. 4 is a side elevation of the cutter adapted to be let into the side of a needle-bar.

Similar letters of reference in the accompanying drawing indicate the same parts.

My invention has for its object to provide an improved thread-cutter to be permanently secured to a sewing-machine for the purpose of cutting the thread from the work as the latter is being taken from the machine. To this end, the invention consists in two circular cutting-blades pivoted to a holder so as to overlap each other slightly, the thread to be cut being pressed down between the cutters, which, rotating slightly, separate it with a clean smooth cut, as I will now proceed to describe.

In the accompanying drawing, A is the holder, adapted for attachment to any suitable part of a sewing-machine, and preferably cut or stamped out of sheet-metal so as to form two arms, *b b*, as shown. C C are the two circular cutting-blades, pivoted by screws or rivets *d d* to the arms of the holder so as to overlap each other slightly. Their edges are beveled off in opposite directions from their point of contact so that the two cutting-edges shall be flush with and bear against each other, as shown.

The thread to be cut is pressed down between the cutters, which, rotating slightly, separate it with a shearing cut.

The circular form of the cutters produces the maximum cutting-edge, while their arrangement to operate with a shearing cut renders them especially efficient in cutting coarse threads. They are easily sharpened by grinding their beveled edges without removing them from the holder, and, because their cutting-edges rotate and present new or different points to the thread at each cut, will remain sharp much longer than those cutters which present a fixed edge to the thread.

The cutter thus formed is secured to the needle-bar, the foot-bar, the face-plate, or other suitable part of the sewing-machine, in the position most convenient for use.

In Fig. 1 the holder of the cutter is shown formed with an angular extension-arm secured to the top of the needle or foot bar by the nut or screw E.

In Figs. 2 and 3 the extension-arm is shown clasping a round and square bar, respectively, and held firmly by the adjusting-screw F.

In Fig. 4 the arm of the holder is straight, which form adapts it to be let into a notch or recess in the side of the bar, where it may be held by a screw or pin.

The holder, of whichever form, is preferably arranged upon the machine so that the cutter shall project toward the front, and, when once applied, need not be removed until worn out.

If desired, the holder to which the cutters are attached may be so formed as to serve as a finger-guard on one side over the whole of the blades except the upper part, where the cutting is performed, and a guard for the opposite side may be made from a piece of metal held in place by the screws or rivets which carry the blades. By this means protectors are formed to prevent the fingers of the operator from being cut.

Having thus described my invention, what I claim is—

1. A thread-cutter, substantially as described, for sewing-machines, having a movable or rotating cutting-edge which presents new or different points to the thread at each cut, for the purpose specified.

2. A thread-cutter for sewing-machines, consisting of two circular cutting-blades pivoted to a holder so as to overlap each other, substantially as described, for the purpose specified.

ARTHUR M. LESLIE.

Witnesses:
SAML. H. COMINGS,
D. S. LESLIE.