

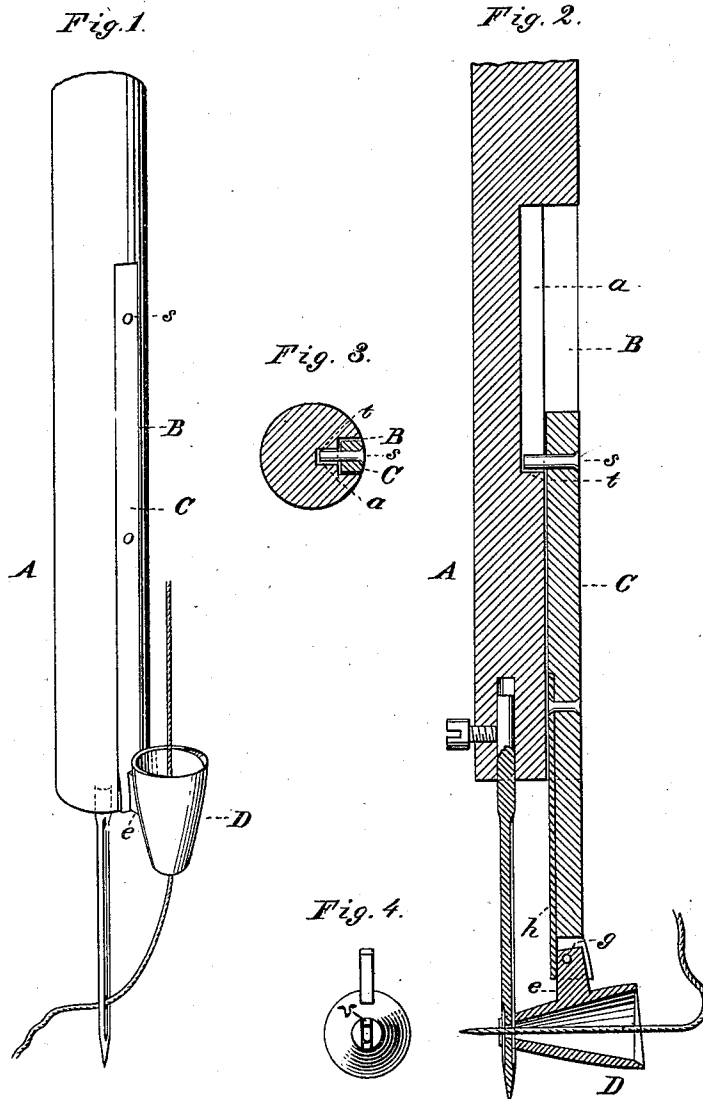
(No Model.)

W. N. BELLAH.

NEEDLE THREADER FOR SEWING MACHINES.

No. 304,599.

Patented Sept. 2, 1884.



WITNESSES
Villette Anderson,
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UNITED STATES PATENT OFFICE.

WILLIAM N. BELLAH, OF ST. JO, TEXAS.

NEEDLE-THREADER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 304,599, dated September 2, 1884.

Application filed April 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM N. BELLAH, a citizen of the United States, residing at St. Jo, in the county of Montague and State of Texas, have invented certain new and useful Improvements in Needle-Threader for Sewing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a perspective view showing the funnel-shaped guide pushed up out of the way. Fig. 2 is a vertical section, and shows the guide in position for threading the needle. Fig. 3 is a cross-section to show grooves in the needle-bar. Fig. 4 is a view showing the face of the small end of the funnel and its groove.

This invention has relation to needle-threading attachments for sewing-machines; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and pointed out in the appended claim.

In the accompanying drawings, the letter A designates the needle-bar of a machine, which is designed to have a groove or slide bearing, B, extending longitudinally on one side. Engaging this slide-bearing is a slide, C, which carries funnel-shaped guide D, which is pivoted to its lower end. This funnel-shaped guide is provided with a lug, *e*, having a squared end, *g*, and said lug is pivoted to the end of the slide, to which is also secured a flat spring, *h*, which extends along the inner face of the slide and engages the squared face *g* of the lug. The lug *e* is perforated to receive the pivot-pin, which also passes through bear-

ings in the end of the slide. At the small end of the funnel the aperture is about the size of the eye of the needle, and in the face of this end of the funnel is made a groove, *v*, which, when said funnel is turned against the needle, engages the latter. When the funnel is not in use, it is turned up on its pivot and the slide is pushed upward, so that the threader is carried up to the end of the needle-bar out of the way.

In order to use the threader, the slide is moved down until its stop *s* engages a bearing, *t*, of the slideway. Then the funnel-guide is turned against the needle and engages it in such position that the small aperture of the guide is in line with the eye of the needle. The end of the thread then introduced through the funnel will be guided through the needle's eye without difficulty. In the construction shown the slideway of the needle-bar has an offset groove, *a*, in its bottom to provide for the movement of the stop. The funnel acts as a thread-guide while the machine is at work, the thread remaining in the funnel.

The larger end of the funnel D may be brought to a sharp edge, and will serve as a thread-cutter.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the slide-bearing of the needle-bar, of the slide, its stop and spring, and the pivoted funnel-guide D, having a squared bearing to engage the spring, and a face-groove in its small end to engage the needle, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

W. N. BELLAH.

Witnesses:

J. O. COTTLE,
J. D. BELLAH.