April 2, 1940. C. JAUCH 2,195,571

SEWING NEEDLE THREADER

Filed Oct. 20, 1938

Fig. 1

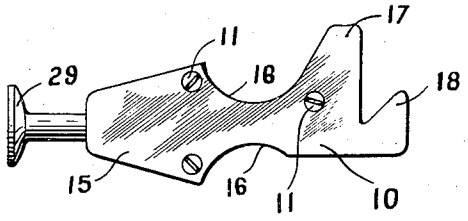


Fig. 3

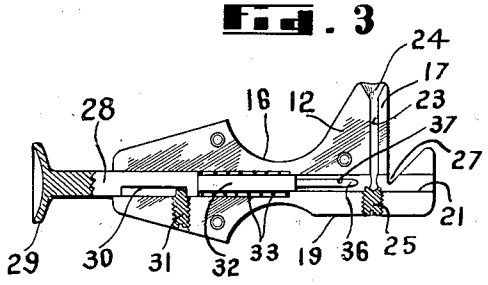


Fig. 2

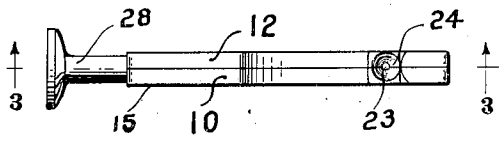


Fig. 5

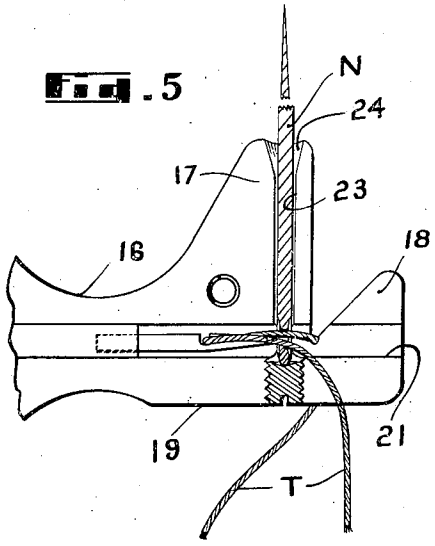


Fig. 4

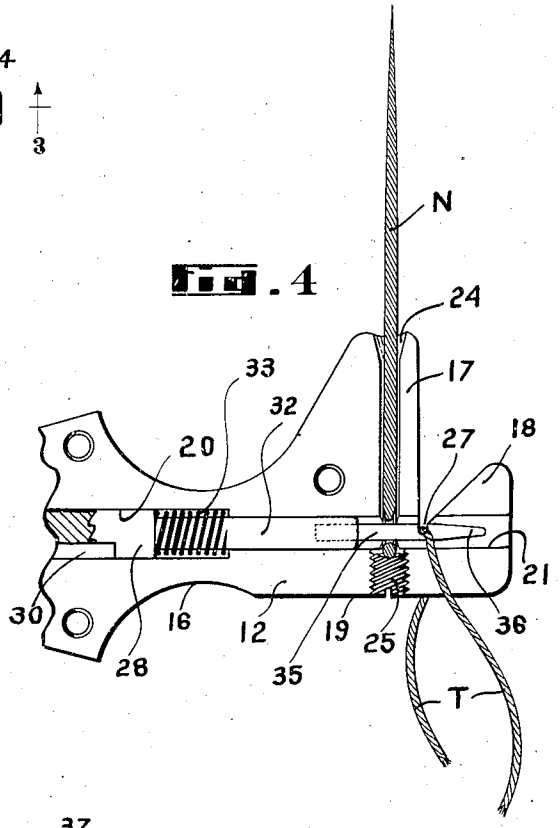
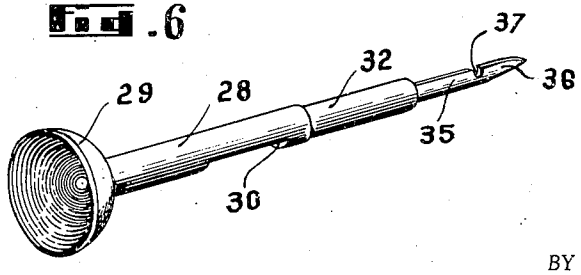


Fig. 6



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SEWING NEEDLE THREADER

Christian Jauch, Bloomfield, N. J.

Application October 20, 1938, Serial No. 235,973

1 Claim. (Cl. 223—99)

This invention relates to devices used by seamstresses and others who may undertake hand sewing.

An object of the invention is to provide a convenient implement for threading any common sewing needle.

While such simple operation must be frequently performed, it is not an easy matter, but particularly difficult if the operator's vision is defective, and wholly impossible in a dim light.

Another purpose is to produce an effective, but small and compact implement, by which the needle eye is accurately positioned and the thread passed through it in a rapid manner, even in the dark or by a blind person.

A further feature is in the provision of an inexpensive device so low in cost as to place it within the reach of all, and so simple that it can be operated even by unskilled persons.

These several valuable purposes are attained by the novel construction an arrangement of parts hereinafter described and shown in the annexed drawing, forming part of this disclosure, and in which:

Figure 1 is a side elevational view of a needle threader made in accordance with the invention.

Figure 2 is a top plan view thereof.

Figure 3 is a view similar to Fig. 1, but with the top or cap portion removed, looking on lines 3—3 of Fig. 2.

Figure 4 is an enlarged fragmentary view showing the operative parts in position to draw the thread through the needle eye.

Figure 5 is a similar view of the same but showing the thread as passed through the needle eye.

Figure 6 is a perspective view of the thread engaging hook and its holder.

Referring more in detail to the several views, the device will be seen to consist of a frame, made in two substantially equal flat plates, front and rear, respectively 10 and 12, having the same profile and held together by screws 11.

These plates are shaped to produce a spear shaped handle 15 having opposed edge recesses 16 to provide an efficient grip for the hand; outwardly beyond the recesses, on the top side edge, is an outstanding lug 17, while at the adjacent end is an angular guide 18, the opposite, rear edge 19 being level.

A central bore 20 extends axially through the handle portion to a diametrically reduced bore 21 reaching through to the end.

A transverse drilled guide way 23 passes through the lug 17, to intersect the bore 21, the outer end of the opening terminating in a conical recess 24.

The level side edge 19 is drilled and topped to receive an adjusting screw 25 having a depression in its point directly in register with the needle guide way 23.

A plunger 28, provided with an enlarged head 29, by which it is conveniently handled, is formed with a key way or slot 30, receptive of the point of a limit screw 31 set in the handle 15.

Within the bore 20, the plunger is reduced, as at 32, and encircled by a compression spring 33, and in the end of the reduced portion is set a thin flat spear 35, its outer end 36 bevelled and at the beginning of the bevel is a notch 37 constituting a catch to engage a thread T as best seen in Figs. 4 and 5.

When the plunger is pressed inwardly, to the limit of the stop screw 31, the catch is in position to receive a strand of the thread, guided into it by the angular rear face of the guide 20, into a notch 27.

The needle N is passed into opening 23, this being facilitated by the funnel shaped entrance, until its head contacts the screw 25, which may be adjusted to suit the size and type of needle used.

It will be understood that the spear 35 is adapted to first aid in turning the needle into proper receptive position for the thread and thereafter pass through its eye to receive the thread, which is drawn through the needle eye by action of the spring 38 when the plunger is released.

The simplicity of the device and ease of operation are believed apparent, therefore what is claimed as new and sought to secure by Letters Patent, is:

A needle threader comprising a flat block formed of two equal parts, its edge shaped to produce a finger grip and a raised lug on one edge, said block having a central longitudinal bore shouldered and reduced in diameter adjacent said lug, a cylindrical plunger movable in said bore, means to prevent rotation of said plunger, said means also limiting its movement, a concavely faced operating knob on said plunger, a spring in the bore of said block urging said plunger outwardly, guide means in said lug receptive of a needle, an adjustable socket in said block to aline the eye of an entered needle with the reduced portion of the bore, a hook on the inner end of said plunger adapted to pass through the eye of a needle on said socket, and means integral with said block to direct a thread into position to be seized by said hook.

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