

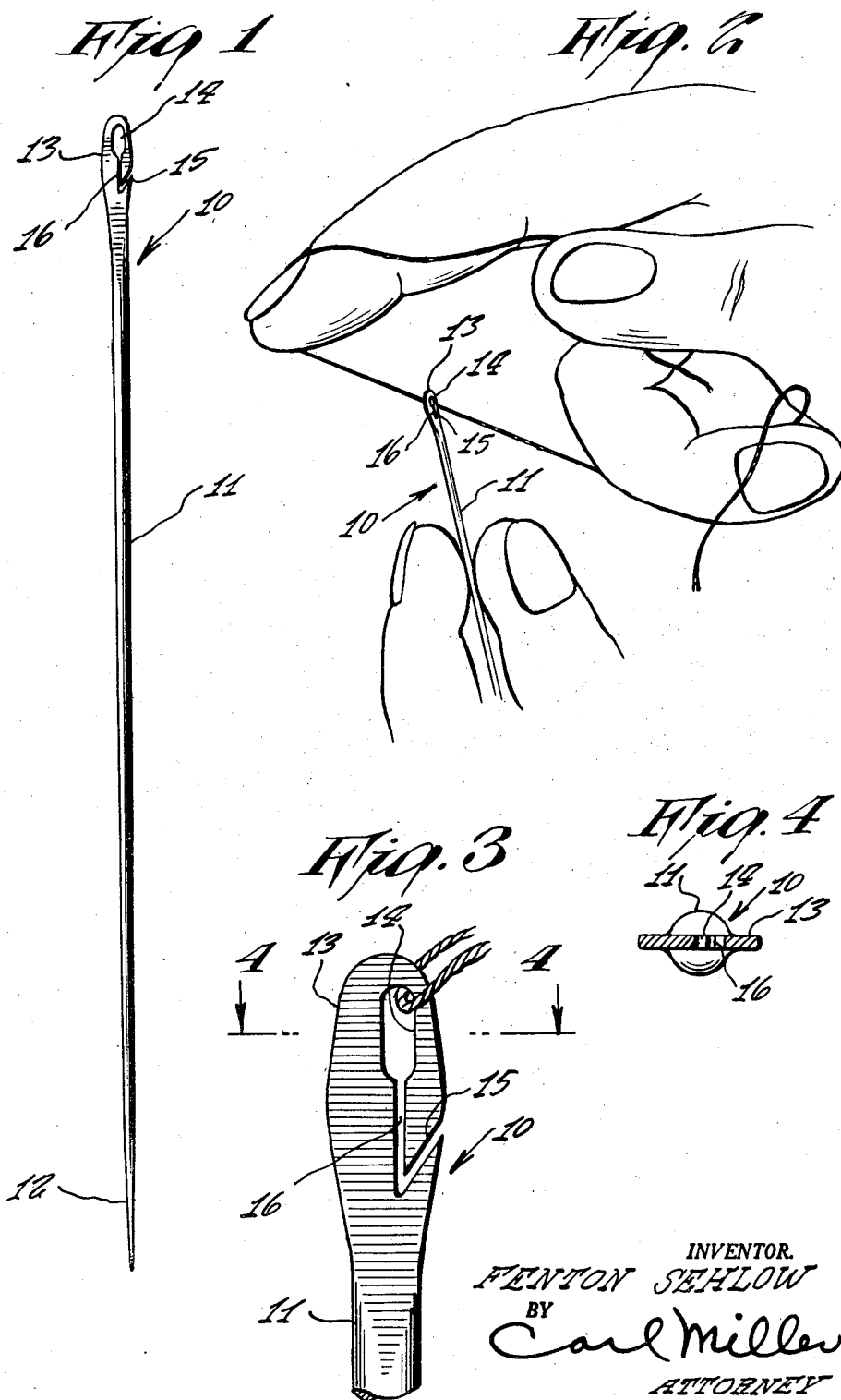
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READILY THREADED NEEDLE

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READILY THREADED NEEDLE

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1 Claim. (Cl. 223—102)

This application is a substitute application for my application filed March 13, 1953, Serial No. 342,114, now abandoned.

This invention relates to needles.

It is an object of the present invention to provide a needle which may be easily and readily threaded by people with poor sight, the eye of the needle being provided with a slight indent which catches the thread and automatically feeds it into the eye.

It is another object of the present invention to provide a needle of the above type wherein the eye is located off center to insure the point of stress at a given point.

Other objects of the present invention are to provide a readily threaded needle bearing the above objects in mind which is of simple construction, inexpensive to manufacture, has a minimum number of parts, is easy to use and efficient in operation.

For other objects and a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which:

Figure 1 is a side elevational view of a needle embodying the features of the present invention;

Fig. 2 is a perspective view thereof showing the needle in operative use and about to be threaded;

Fig. 3 is an enlarged fragmentary side elevational view of the needle head; and

Fig. 4 is a transverse sectional view taken along the line 4—4 of Fig. 3.

Referring now more in detail to the drawing, in which similar reference numerals identify corresponding parts throughout the several views, there is shown a readily threaded needle, referred to collectively as 10 and including the usual body portion 11 of steel, substantially as illustrated.

The body 11 is pointed in the usual manner as at 12, while the other end of the body 11 is flattened into an enlarged head 13, substantially as illustrated.

The head 13 is provided with an elongated slot or eye 14, this eye being located off-center, substantially as illustrated in Fig. 3.

The head 13 is also provided with a diagonal slot 15 extending inwardly and toward the point 12 at one side thereof and a second slot 16 connecting the inner end of slot 15 with eye 14.

Thus, to thread the needle 10 it is only necessary to grab the thread in the manner shown in Fig. 2 and to slide the same downwardly along the longitudinal edge of head 13, having slot 15, until the thread automatically moves into slot 15, as will be obvious. The thread is then brought upwardly through slot 16 into the eye 14 to complete the threading operation.

It will be noted that this entire operation may be done with the hands without applying the eyesight, making the invention particularly desirable for people with poor sight.

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It will be noted also that the eye 14 is off center to insure the point of stress at the given point shown (see Fig. 3).

It will also be noted that the thread may be readily removed from the eye without breaking by merely reversing the above steps. This is particularly advantageous when the thread is knotted after passing through the eye 14.

The needle 10 may be readily manufactured in the same manner as conventional needles, the only change in the procedure being the flattening of the enlarged head 13 and the stamping therein of the eye 14 and slots 15 and 16.

The readily threaded needle 10 may be manufactured in all sizes and adapted to various sewing requirements.

It should now be apparent that there has been provided a needle which is particularly advantageous to people with poor sight, the thread being automatically fed into the eye in a novel manner. It should also be apparent that there has been provided a needle of the above type wherein an off-center eye communicates with the outer edge of the needle head by means of a pair of intersecting slots.

Due to the off-center position of the eye 14, the stress will be such as to close the slot 15 and prevent the needle from accidentally becoming unthreaded, by a reversal of the threading operation.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention, as defined by the appended claim.

Having thus set forth and disclosed the nature of my invention, what is claimed is:

A readily threaded needle including an elongated steel body tapering at one end to a point and having a thin flat head at the other end with a longitudinally extending eye with straight parallel sides and with the long axis thereof parallel to but spaced to one side of the longitudinal axis of the needle as a whole, the head having a rounded end with a portion of the outer sides diverging from the rounded end toward the intermediate portion of said head and the remaining portions of said sides tapering inwardly toward the normal sides of said body with the eye disposed exclusively in the end portion of the head beyond the intermediate portion thereof, the head also having a longitudinally disposed straight slot communicating with the end of the eye remote from the rounded end of the head and having another slot communicating with the end of said straight slot remote from said eye at an acute angle with said straight slot and extending to said intermediate portion of said head and opening to the outer edge thereof at one side at the widest portion of the head, and the section of said head along the closed side thereof tapering off generally in width from the intermediate portion of said side to the rounded end of said head, the side of the eye nearer to the slotted other side of said head having the acute angle slot to provide maximum strength for the section of the head upon its closed side.

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