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E. DZIUK

NEEDLE

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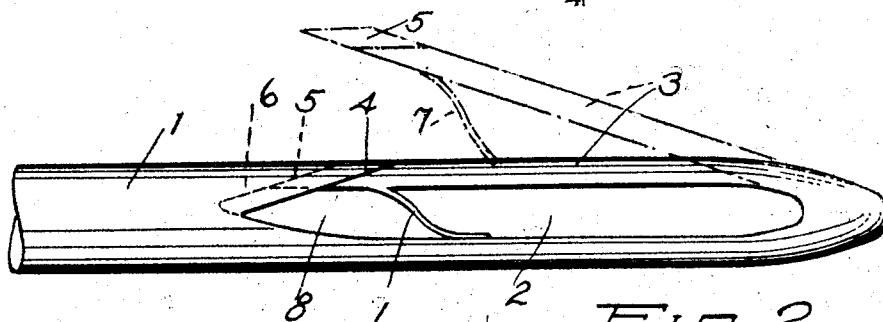
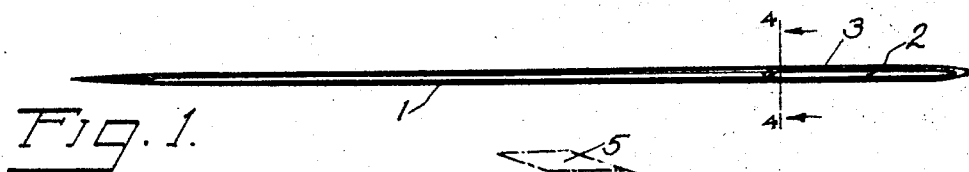


Fig. 2.

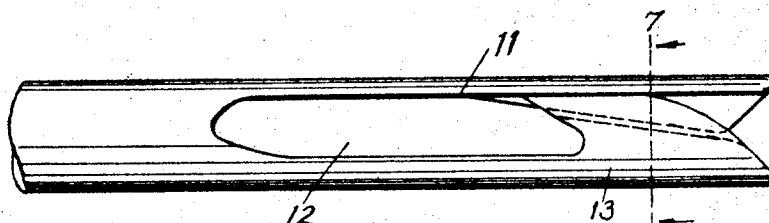


Fig. 3.

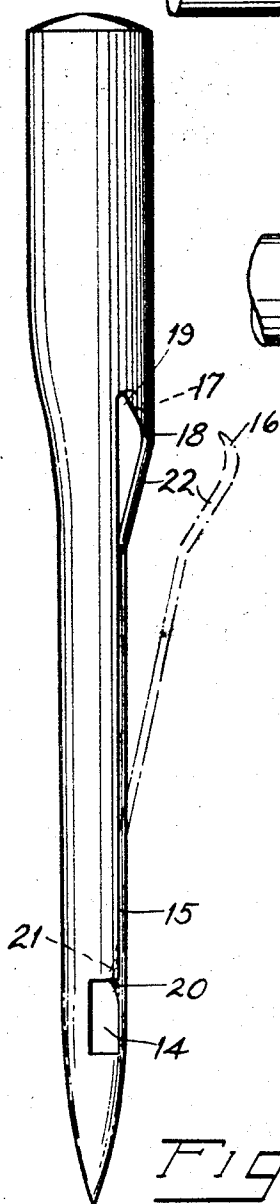


Fig. 4.

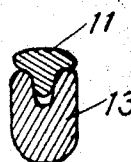


Fig. 5.

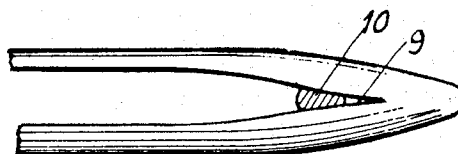


Fig. 6.

INVENTOR.
Edmund Dziuk.

BY
Charles C. Hyrick.
ATTORNEY.

UNITED STATES PATENT OFFICE.

EDMUND DZIUK, OF DETROIT, MICHIGAN.

NEEDLE.

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This invention relates to needles and the object of the invention is to provide a needle which may be threaded with the utmost ease and facility.

5. Another object of the invention is to provide a needle in which the metal at one side of the eye may be removed to allow the thread to be drawn into the eye.

10 A further object of the invention is to provide a needle in which the end of the thread may be bindingly secured in the eye.

Another object of the invention is to provide a device of the character described so arranged as to allow normal use of the
15 needle without interference.

The above and other objects will be apparent from the following description wherein reference is made to the accompanying drawings illustrating a preferred embodiment of my invention.
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In the drawings:—

Fig. 1 is a view of a needle embodying my invention.

Fig. 2 is an enlarged view of the eye thereof.
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Fig. 3 is a view of an alternative form of eye.

Fig. 4 is a section taken on line 4—4 of Fig. 1.

30 Fig. 5 is a view of the end of an eye adaptable to the needle shown in Fig. 2.

Fig. 6 shows the construction as applied to sewing machine needle.

Fig. 7 is a section taken on line 7—7 of Fig. 3.
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Similar numerals refer to similar parts throughout the several views.

The needle comprises a body portion 1 having an eye 2. The portion 3 of the metal at one side of the eye 2 is separated from the body portion 1 at the point 4 and has the nature of a spring tongue which is beveled at 5 to form a point adapted to engage in the V shaped groove 6 provided in the needle at the end of the eye 2 as shown in Figs. 2 and 4. If desired the portion 3 may be provided with a spring metal portion 7 adapted to engage the body portion 1 at the opposite side of the eye and hold the end 5 in engagement with the seat 6.
40 By this arrangement the member 3 may be depressed by drawing a thread thereagainst and allowing the thread to be drawn into the portion 8 of the eye at which time it
55 may be drawn past the spring member 7

into the portion 2 of the eye at which time the needle is threaded for sewing.

If desired the spring member 7 may be done away with in which event the tendency of the metal portion 3 to spring outwardly holds the end 5 seated in the groove 6.
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The portions 3 and end 5 may also be depressed by the fingers allowing the end 5 to be moved sideways through the portion 8 of the eye at which time it will spring to the position shown in dotted lines in Fig. 2. At this time the thread may be inserted in the eye and the portion 3 and end 5 moved back to the position shown in full lines in Fig. 2. If desired the end of the eye opposite the end 8 may be formed to provide a narrow V shaped slot 9 in which the end 10 of the thread may be bindingly engaged thus allowing the end of the thread to be caught in the eye so that a single thread may be used for sewing.
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An alternative form of the device is shown in Figs. 3 and 7 in which a portion 11 may be moved upwardly to allow the thread to be inserted in the eye 12, the members 11 and 13 interlocking as shown in Fig. 7.
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In Fig. 6 a construction is shown for the adaptation of the construction to a sewing machine needle. This needle is provided with an eye 14 and a portion 15 which forms one side of the eye similar to the portion 3 shown in Fig. 3 and extending longitudinally of the needle and is provided with an end 16 which is adapted to engage in a notch 17 provided on the under side of a shoulder 18 formed in the body of the needle, the needle being provided with a notch 19 adjacent the shoulder. Adjacent the eye 14 the member 15 is provided with a tongue 20 engaging in a notch 21 in the needle adjacent the eye which prevents the possibility of withdrawing the thread from the eye after being positioned therein.
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The portion 22 may be depressed and moved sideways through the notch 19 to the position shown in dotted lines in Fig. 6 at which time the thread may be easily inserted in the eye 14, or the thread may be drawn against the portion 22 to depress the said portion and allow the thread to be drawn into the notch 19 at which time it may be drawn downwardly longitudinally of the needle between the member 15 and the needle and will thus be drawn into the eye 14.
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From the foregoing description it becomes evident that the device is very simple and efficient in operation, may be easily and quickly threaded, will not interfere with the normal operation of the needle and provides a device which accomplishes the objects described.

While it will be apparent that the illustrated embodiment of my invention herein disclosed is well calculated to adequately fulfill the objects and advantages primarily stated it is to be understood that the invention is susceptible to variation, modification and change within the spirit and scope of the subjoined claims.

Having thus described my invention, I claim:—

1. A needle having an elongated eye and having one wall of said eye slit adjacent one end of the eye and outwardly flexible

about its other end, the body portion of the needle being formed with a seat for the free end of the flexible wall, said seat being channeled lengthwise of the needle to normally retain the end portion of the flexible wall.

2. A needle having an elongated eye, and having one wall of said eye slit adjacent to one end of the eye, and forming a spring tongue the body of the needle having a longitudinally channeled portion forming a seat normally receiving the free end of said spring tongue to maintain the eye closed, said tongue being urged by its resiliency outwardly to an acutely divergent relation to said needle, when released from said seat, and being laterally flexible to disengage it from said seat.

In witness whereof I hereunto set my hand.

EDMUND DZIUK.