

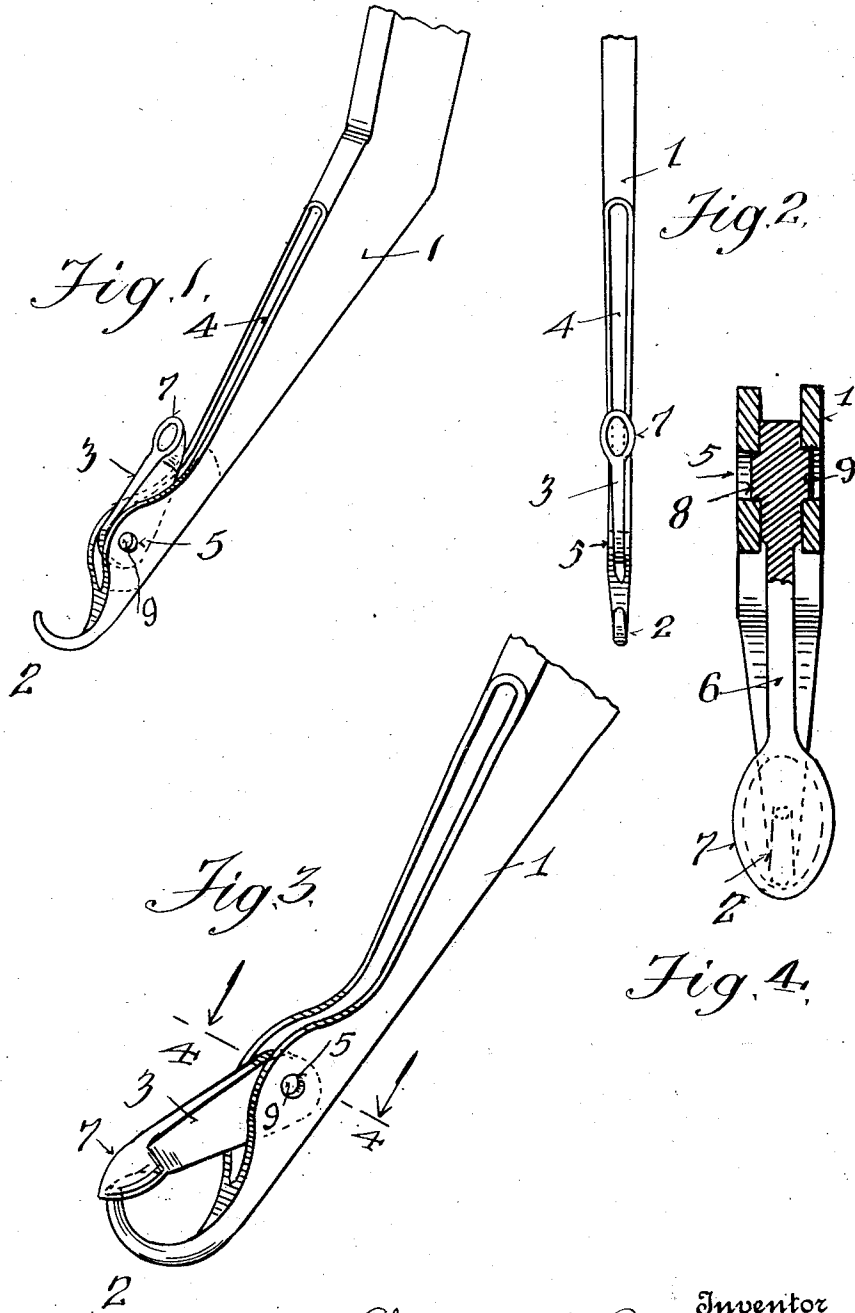
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KNITTING NEEDLE

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UNITED STATES PATENT OFFICE

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KNITTING NEEDLE

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This invention relates to knitting needles adapted to be manipulated by hand or in a machine for repairing runs in knitted fabrics such as hosiery.

5 One of the objects of the present invention is to so construct the slotted portion of the needle shank so that the sides of the slot form parallel springs which afford a lateral pressure against the latch member which is pivoted therebetween.

Further objects of the invention will appear more fully hereinafter.

15 The invention resides substantially in the structure hereinafter described, as illustrated in the accompanying drawings and pointed out in the appended claim.

Referring to the drawings:

20 Figure 1 is an enlarged perspective broken view of a needle constructed in accordance with my invention showing the latch member in open position.

Fig. 2 is a front elevation of the needle also showing the latch member in open position.

25 Fig. 3 is a view similar to Fig. 1 showing the latch member in closed position.

Fig. 4 is a sectional view of Fig. 3 taken on the line 4-4 of that figure looking in the direction of the arrows.

30 The needle comprises a shank portion 1 which terminates in the hook portion 2, and a latch 3 adapted to be pivoted in the slot 4 in said shank in a manner hereinafter to be described. If the needle is operated by hand it will be understood that the shank is secured to a suitable handle (not shown) so that it can be more readily operated. In case the needle is used in a run repairing machine the shank is secured in the usual manner to the needle bar thereof.

40 The shank portion 1 is provided with an elongated slot 4. This slot is made of a length extending from the point where the hooked end joins the shank up to a considerable distance above the point where the latch is pivoted therein. It will be noted that the slot in the shank portion of the needle, in accordance with my invention, is made of a much greater length than is usual in this type of needle. Usually the said slot is made of just a sufficient length to permit the

reception of the latch but in my improved construction the slot is made of a sufficient length to permit the said members of the shank at the point the slot is located, to have a considerable degree of spring tension. It will also be noted that the sides of the slot are somewhat closer together at the point when the latch is pivoted than in the upper portion of said slot. At the point where the latch is pivoted in the slot there are provided in each side of the needle shank the holes 5.

The latch member 3 is constructed with a fin 6 terminating at one end in a head 7 adapted to cooperate with the tip of the hook member 2 when the latch is in closed position. At the other end of the latch member the fin is provided with the side faces or projections 8 and 9 which are adapted to fit in holes 5 in the sides of the shank portion.

In assembling the latch member to the shank, the end of the latch having the projections 8 and 9 is inserted in the slot in the upper portion thereof and is drawn down the slot forming the spring arms of the shank apart until the projections on the sides of the latch are received by the holes 5 in the sides of the shank and are seated therein as clearly indicated in Fig. 4.

It will be seen that by this construction of the shank, the sides thereof, at the location of the slot will exert a spring pressure against the latch member and will thus keep it in whatever position the action of the thread pushes it in the operation of the needle in repairing a run. This is of great advantage as one of the difficulties encountered with knitting needles used in the repairing of runs in fabrics has been the failure of the latch member to remain in its open position when thrown upwardly by a thread of the run being repaired and thus preventing the proper or rapid operation of the needle.

What I claim as new and desire to secure by United States Letters Patent is:

A run repair needle having a hook shaped end portion and a shank portion having an elongated slot extending up said shank from a point in the shank adjacent the hook shaped end portion to form resilient walls, said elongated slot being narrower at the point there-

of adjacent the hooked end portion than at its upper end, pivot holes in the walls of the shank at the narrow portion of the slot, a latch member provided at one end with a hooded head portion adapted to cooperate with the hook shaped end portion and at its other end with side faces which are adapted to frictionally engage the side walls of the elongated slot at its narrow portion and lugs on said side faces adapted to be received in the pivot holes in the walls of said shank portion.

In testimony whereof I have hereunto set my hand on this 2 day of July A. D., 1929.
ALEXANDER C. PARLINI.

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