

No. 773,722.

PATENTED NOV. 1, 1904.

J. C. EGLY.  
KNITTING MACHINE NEEDLE.

APPLICATION FILED MAY 26, 1902.

NO MODEL.

fig. 1.

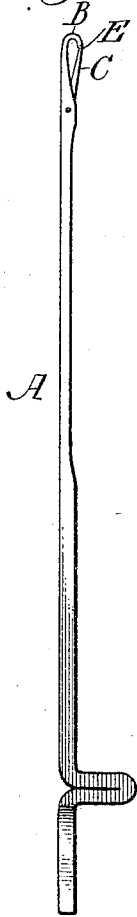


fig. 2.

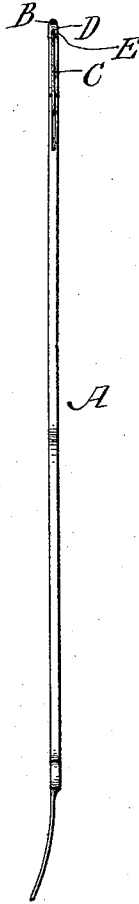


fig. 3.

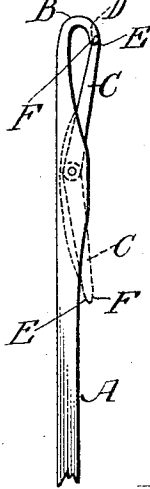


fig. 4.

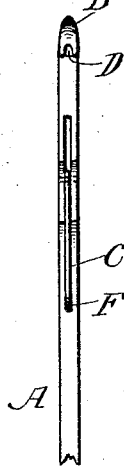
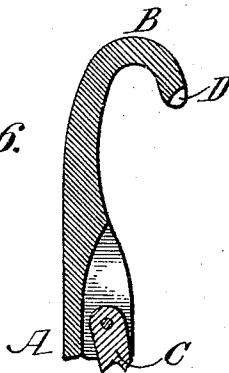


fig. 5.



fig. 6.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## KNITTING-MACHINE NEEDLE.

SPECIFICATION forming part of Letters Patent No. 773,722, dated November 1, 1904.

Application filed May 26, 1902. Serial No. 108,949. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN C. EGLY, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Knitting-Machine Needles, of which the following is a specification.

My invention consists of a knitting-machine needle having a pivotal latch which is adapted to be seated in a recess in the end of the hook or head of the needle and form an unbroken surface with said hook or head, thus avoiding sharp or cutting edges on the hook and latch when the latter is closed and on the latch when the same is open and the latch is laterally sustained in a firm and reliable manner on said hook.

My invention further consists of other novel features, as will be hereinafter pointed out in the claims.

Figures 1 and 2 represent side elevations of a knitting-machine needle embodying my invention. Figs. 3 and 4 represent side elevations of portions of the same, on an enlarged scale, the latch being shown in different positions. Fig. 5 represents a side elevation of the latch detached and on an enlarged scale. Fig. 6 represents a vertical section of the upper portion of the needle, the latch being open.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a knitting-machine needle having the hook B and the pivotal latch C, it being noted that the side walls of said latch extend in substantially a rectilinear line, so that no obstruction to the stitch is presented when the needle is in use. In the end of said hook is a groove or recess D, which extends toward the top of the hook and into which the end of the latch when the latter is closed is received and seated. By this provision the outer edge of the end of the latch is set back from the outer edge of the end of the hook B, thus forming a flush surface for said latch with said hook and preventing the end of the latch from projecting beyond the end of the hook. Furthermore, the outer edge of the latch is tapering

in curved direction toward its point, as at E, so as to produce an unbroken curved surface with the curved edge of the hook, it being noticed that when the latch is closed the thread or yarn will pass freely over the joint between the latch and hook and there are no obstructions or sharp edges presented thereat to interfere with the free motion of the yarn or thread or cause a cutting of the same. The edge of the latch opposite to the edge E is also tapering in curved direction toward its point, as at F, so that when the latch is lowered said edge F, which is now on the outside of the latch, likewise presents a surface which will neither obstruct nor cut the yarn or thread.

It will be apparent to those skilled in the art that in my construction by locating the recess in the hook I am enabled to form a seat for the rounded end of the pivotal latch without necessitating a thickening or bulging thereof such as is required where the recess is in the latch, whereby the construction is much cheapened and simplified. Furthermore, when the latch is seated in the hook it is laterally sustained therein in a firm and reliable manner and both its body and pivot are relieved of side strain.

It will be apparent that changes may be made by those skilled in the art which will come within the scope of my invention, and I do not, therefore, desire to be limited in every instance to the exact construction I have herein shown and described.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A knitting-machine needle having a hook, provided with a recess and a latch pivoted to the needle and provided with curved opposite edges which meet at a point at the extremity of said latch, the side walls of the latter extending in substantially a rectilinear line, whereby the end of said latch, when seated in said recess, forms an unbroken continuity with the outer edge of said hook at the extremity thereof.

2. In a knitting-machine needle, a hook hav-

ing a recess in the end thereof, a latch pivoted  
to said needle and having rectilinear sides, the  
edge of the latter being curved at its extrem-  
ity which seats in said recess, whereby the  
5 outer edge of said latch when closed forms an  
unbroken continuity with the outer edge of  
said hook.

3. A knitting-machine needle having a hook  
provided with a recess in the end thereof, and  
10 a latch pivoted to said needle, and adapted to

be seated in said recess, said latch having a  
curved edge on its end, whereby its outer  
edge when closed forms an unbroken contin-  
uity with the outer edge of said hook at  
the end thereof.

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Witnesses:

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