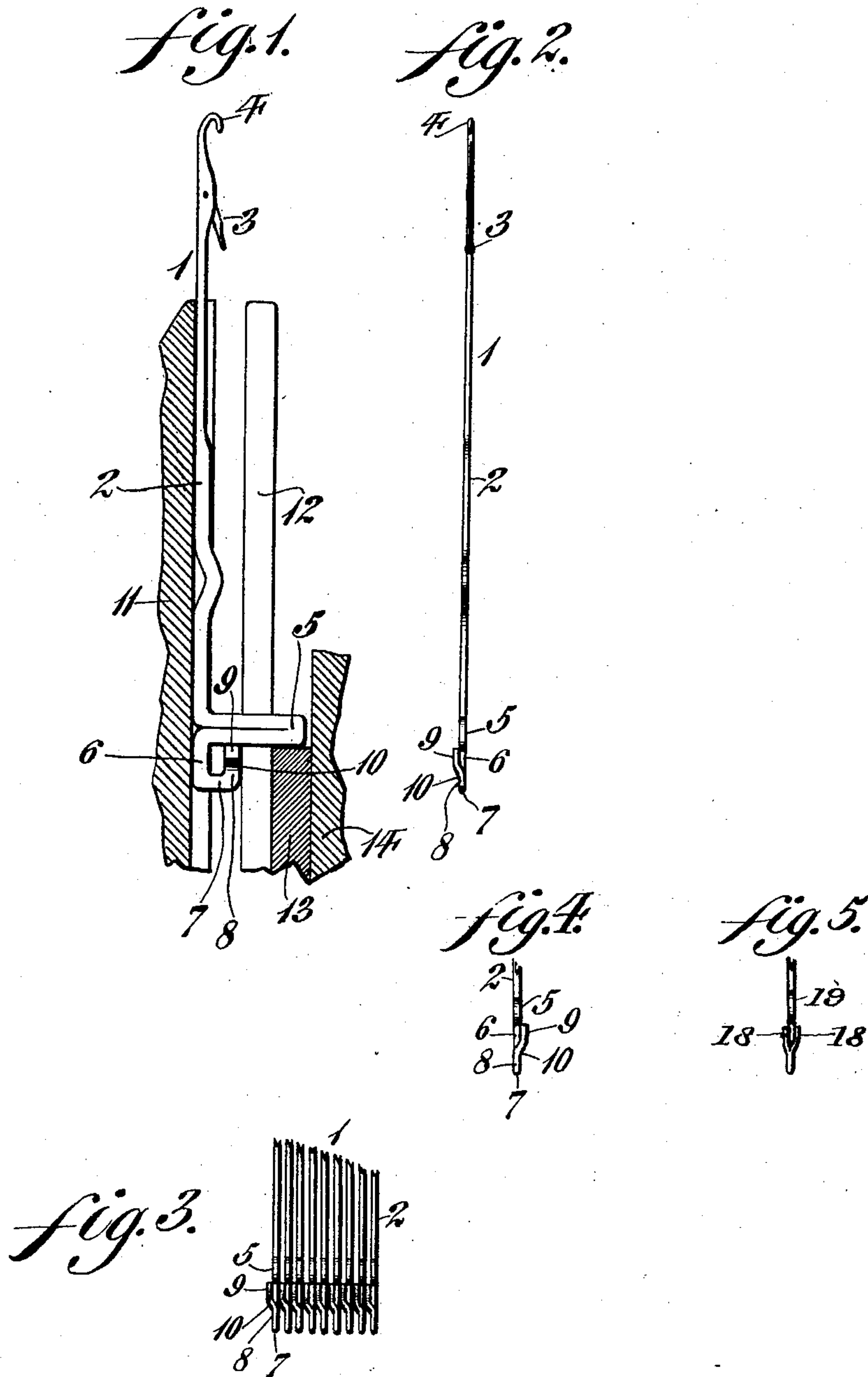


No. 885,590.

PATENTED APR. 21, 1908.

G. C. EGLY.  
KNITTING MACHINE NEEDLE.  
APPLICATION FILED SEPT. 1, 1906.



Witnesses

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# UNITED STATES PATENT OFFICE.

GEORGE C. EGLY, OF PHILADELPHIA, PENNSYLVANIA.

## KNITTING-MACHINE NEEDLE.

No. 885,590.

Specification of Letters Patent.

Patented April 21, 1908.

Application filed September 1, 1906. Serial No. 332,962.

*To all whom it may concern:*

Be it known that I, GEORGE 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 Knitting-Machine Needle, of which the following is a specification.

This invention relates to improvements in knitting machine needles, of that class having an integral off-set below the butt.

I have devised a novel construction of needle wherein I dispense with the brass sleeve or spacing device attached to the butt of the needle and in lieu thereof form an integral off-set below the needle butt, since I extend the needle butt downwardly and laterally and then upwardly and bend the upward terminal of the same at or near the extremity thereof, thereby providing a slight off-set, whereby the desired function is attained.

To the above ends, my invention consists of a needle comprising a body portion having its butt deflected downwardly, laterally and upwardly, the terminal of said upward extension being provided with an off-set whereby a needle of superior utility can be efficiently produced and will not be liable to get out of order.

My invention consists of other novel features of construction, all as will be hereinafter fully set forth and pointed out in the claims.

Figure 1 represents a side elevation of a needle embodying my invention, showing also the needle cylinder and skeleton cylinder of the usual construction employed in conjunction therewith. Fig. 2 represents an end elevation of Fig. 1. Fig. 3 represents an end elevation of a plurality of needles embodying my invention in assembled position, illustrating the function attained by my novel device. Figs. 4 and 5 represent other embodiments of my invention.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings:—1 designates my novel construction of needle, the same comprising the body portion 2 at the upper extremity of which is located the latch 3 and the hook 4 of the usual construction.

5 designates the butt of the needle, the latter having depending therefrom the extension 6 which is substantially in line with the body portion 2 and is continued laterally at 7 and upwardly at 8, the terminal 9 of

said upward extension being provided with an off-set which begins as indicated at the point 10.

11 designates a needle cylinder of the usual construction, and 12 a skeleton cylinder employed in conjunction therewith.

13 designates the needle rest attached to the cam cylinder 14, which latter parts are of the usual construction, and since the same form no part of my present invention, require no further description.

In Figs. 1 and 3 I have shown the manner of assembling my novel construction of needle, it being apparent that by reason of the extensions 6 each needle is held in proper relation with respect to the regular needle cylinder 11 and the skeleton cylinder 12, as will be apparent from Fig. 1, while by reason of the employment of the terminals or the off-sets 9 it will be seen that each needle is spaced in proper relation with respect to its neighbor or adjacent needle.

It will be further apparent that by the employment of my novel device, the needles are spaced from each other to the desired extent and at the same time the needles are permitted to be somewhat closer together than in prior constructions heretofore known, whereby a greater number of needles can be employed and much finer work may be done as will be evident to those skilled in this art.

It will be apparent that the terminal or off-set 9 of my novel needle can be deflected to either the right or left of the butt 5 or if need be, an off-set or integral spacing device may exist on both sides of the butt on said terminal 9.

In Fig. 4 I have shown the terminal 9 deflected to the side of the needle body oppositely to that shown in Figs. 2 and 3, the function of the off-set terminal being the same, while in Fig. 5 I have shown the terminal 18 as being split and having a member deflected to both sides of the needle body or butt 19, all of which devices I regard as coming within the spirit of my invention.

As seen in Fig. 1 the lateral portion 7 is of greater length than the combined width of the vertical portions 6 and 8 so as to provide a material space between the two last-named portions, as shown, so as to bring the portion 8 out of vertical line with the shank of the needle and the terminal 9 nearer the outer end of the butt.



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

1. As an improved article of manufacture,  
5 a knitting needle having a butt, a portion of said butt being deflected downwardly and thence laterally in proximity to and parallel with the butt and thence upwardly at a distance from said downwardly deflected  
10 portion, the terminal of the upward extension being provided with an offset out of the plane of the butt and out of the plane of the downwardly deflected portion.

2. As an improved article of manufacture, a knitting needle having a butt, a portion of said butt being deflected downwardly and thence laterally in proximity to and parallel with the butt and thence upwardly at a distance from said downwardly deflected portion, the terminal of said upward extension being split and having a member deflected to both sides of the body of the needle.  
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Witnesses:

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