

E. McI. SANDERS.
NEEDLE.

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925,953.

Patented June 22, 1909.

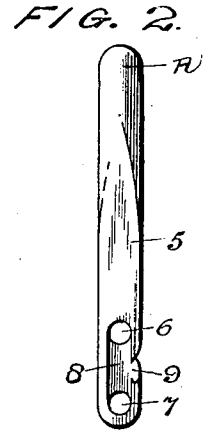
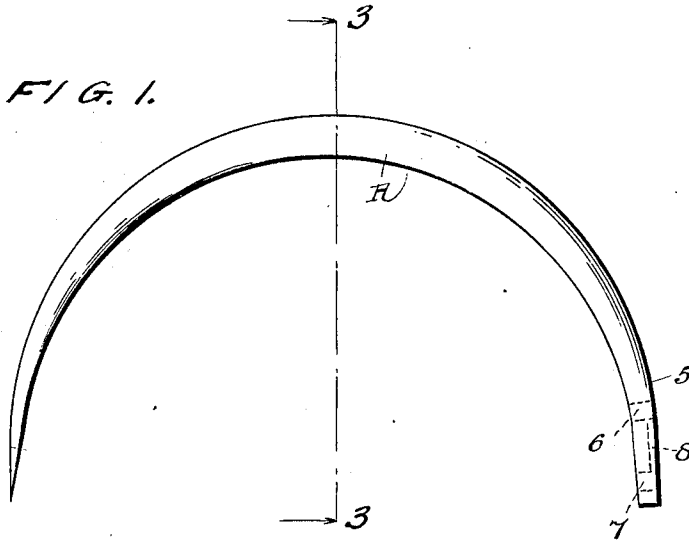
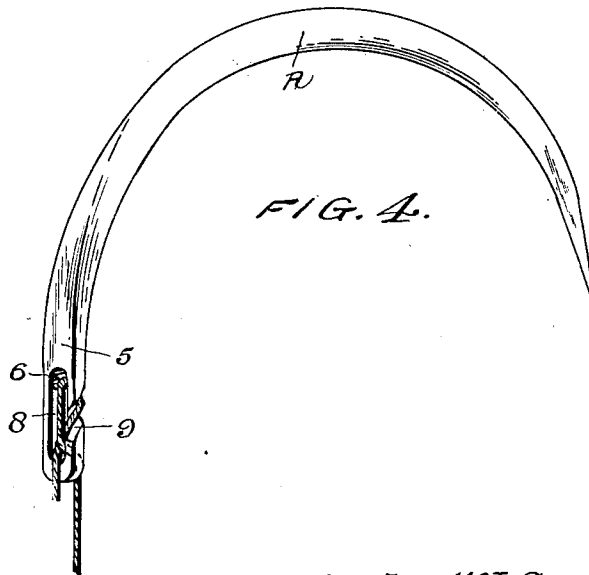
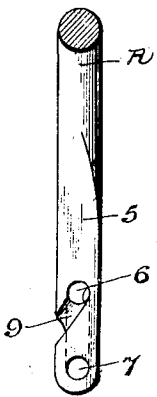


FIG. 3.



WITNESSES

C. H. Davies
Myron J. Clear

Evander M. I. Sanders
INVENTOR

C. L. Parkman
Attorney

UNITED STATES PATENT OFFICE.

EVANDER McI. SANDERS, OF NASHVILLE, TENNESSEE.

NEEDLE.

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To all whom it may concern:

Be it known that I, EVANDER McI. SANDERS, citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Needles, of which the following is a specification.

My invention relates to needles, and more especially to surgical needles, and the object thereof is to provide simple and effective means for enabling the formation of a half-hitch with the end of a thread around the shank of the needle, whereby when traction is made upon the length of thread, the connection will be drawn tight, and prevented from slipping.

In the following description, reference is made to the accompanying drawing, forming a part of this specification, and illustrating my invention, and in which,

Figure 1 is a side elevation of a needle constructed in accordance with my invention. Fig. 2 is an end elevation thereof. Fig. 3 is a sectional elevation of one end thereof, taken on the section line 3—3 of Fig. 1, and looking in the direction of the arrows, and, Fig. 4 is a perspective view of the same illustrating the manner of threading for practical purposes.

As shown in the accompanying drawing, the needle A comprises the usual tapered and pointed body which may be either curved as shown, or straight, and which is provided with a slightly flattened squared blunt or base end 5.

In accordance with my invention, I provide the needle with a pair of spaced apertures 6 and 7, extending transversely through the squared end 5, and the adjacent ends of which are connected by a longitudinal groove 8, formed within one of the flattened surfaces of said squared portion. Opposite ends of the apertures 6 and 7 are also con-

nected by a slightly curved angular groove 9, through another one of the flattened surfaces of the squared end 5, which latter groove 9 merges, at one end thereof, into the longitudinal straight groove 8. Thus, to thread the needle as shown in Fig. 4, the end of the thread is passed through the aperture 7, from the end thereof opposite the groove 8, through groove 8, aperture 6, and rearwardly through the groove 9, the extremity being passed beneath the portion of thread lying within groove 8, thus forming a half-hitch which becomes firmer with every pull upon the length of thread.

Having fully described my invention, I claim:

1. A needle, having a plurality of threading eyes extending transversely there-through, and provided with a longitudinal peripheral groove connecting said eyes upon one side of said needle, said needle being further provided with a helical peripheral groove connecting said eye upon oppositely disposed sides of said needle, said helical peripheral groove merging at one end into one end of said longitudinal groove, substantially as described.

2. In a needle, having a plurality of threading eyes extending transversely there-through, and provided with a longitudinal peripheral groove connecting said eyes upon one side of said needle, said needle being further provided with a curved peripheral groove connecting said eyes upon oppositely disposed sides of said needle, said curved peripheral groove merging into said longitudinal groove, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EVANDER McI. SANDERS.

Witnesses:

S. T. JOHNSON,
G. W. CHIPMAN.