

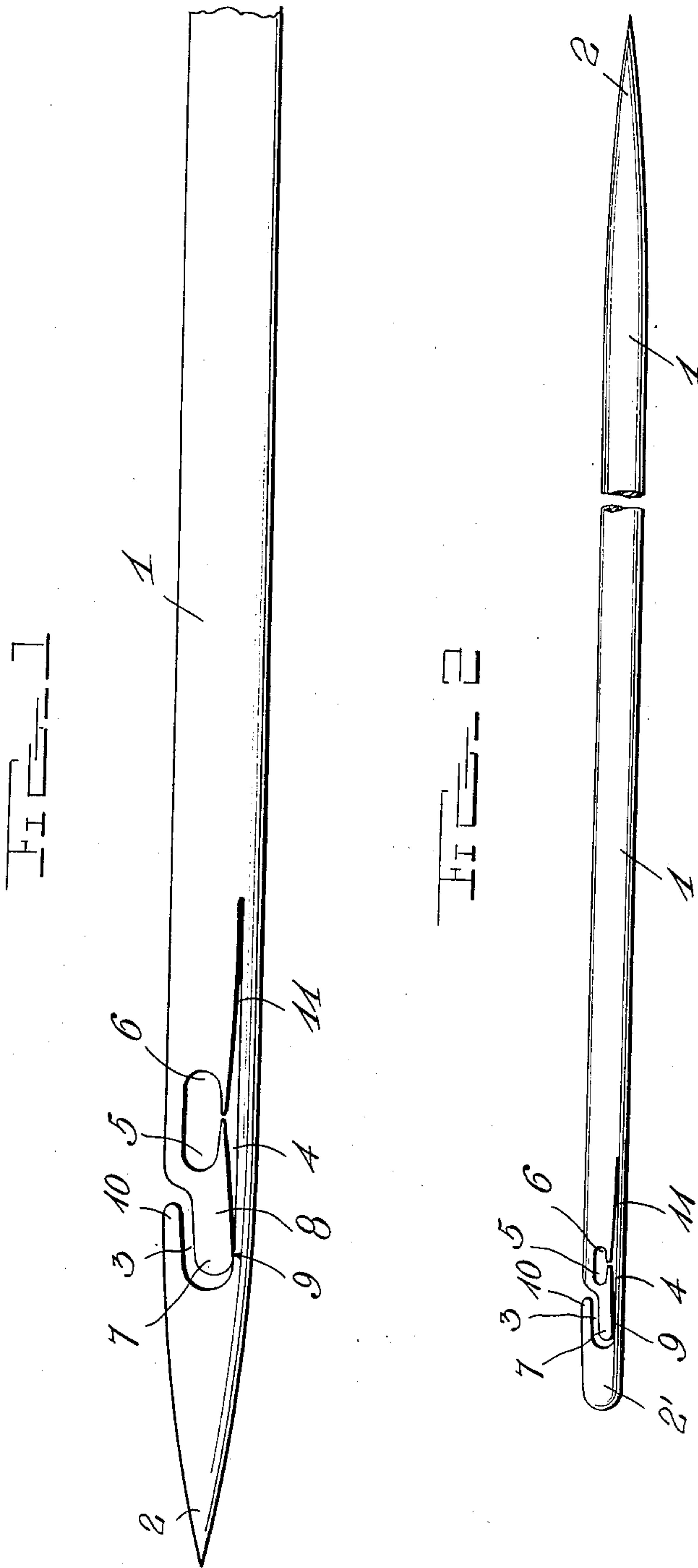
C. VAN B. REEDER.

NEEDLE.

APPLICATION FILED APR. 16, 1908.

913,648.

Patented Feb. 23, 1909.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## NEEDLE.

No. 913,648.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed April 16, 1908. Serial No. 427,491.

*To all whom it may concern:*

Be it known that I, CLINTON VAN BURAN REEDER, a citizen of the United States, residing at San Jose, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Needles; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to needles.

The object of the invention is to provide a needle which will be readily threaded without searching for the eye thereof.

A further object of the invention is the provision of means for preventing the thread from slipping out of the eye after the needle is once threaded, which has been the difficulty with needles of this character.

A still further object of the invention is the provision of means whereby the parts reinforce each other so that the threads will not be taken up entirely by the part holding the point.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is an elevation of a sewing machine needle, Fig. 2 is an elevation of a sewing needle.

Referring more especially to the drawings, 1 represents the shank of a needle and 2 the point thereof. Adjacent the point in a sewing machine needle and adjacent the head 2' of a sewing needle I provide a diagonal slot 3, which extends back upon itself as at 4, on the opposite side of the needle and leads into an enlarged opening or eye 5, which is oblong in shape and extends back into the shank, as at 6, and forward into the projection 7, which is separated from the shank to form the slots 3 and 4. The projection or finger which is formed by the cutting away of the material to form the slots 3 and 4 and the eye 5, lies adjacent the shank of the needle as at 9, and is free of the tongue 10, by a slight margin which is considerably magnified herein.

When the thread is inserted in the slot 3 and passed around the finger or projection 7 into the slot 4 the point or shank is pulled away from the finger as at 9 and the upper part thereof engages the tongue 10. This allows the thread to pass back through the opening into the eye 5. The finger 7 then springs back in place against the shank and the thread plays in the eye between the points 6 and 8. In order to make the shank resilient enough to permit of this movement I preferably slot the shank back to a point slightly beyond the rear end of the eye as at 11. It will be noted that the rear point of the projection 7 is slightly raised and that the opposite side of the aperture into the eye is provided with a similar wall so as to prevent the thread from accidentally slipping out of the eye and becoming disengaged from the needle.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claim.

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

A needle comprising a shank, a point, an eye formed in the shank, a threading channel reaching from the outside of the needle to the eye, a resilient connection between the point and the shank, and a projection on the shank lying above said resilient connection and entering a recess formed in the point, said shank being slit beyond the eye to form said resilient connection.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CLINTON VAN BURAN REEDER.

Witnesses:

CHARLES CLARK,  
A. T. HERRMANN.