

A. ANDERSON.
SEWING MACHINE NEEDLE THREADER.
APPLICATION FILED MAR. 10, 1908.

906,985.

Patented Dec. 15, 1908.

Fig. 1.

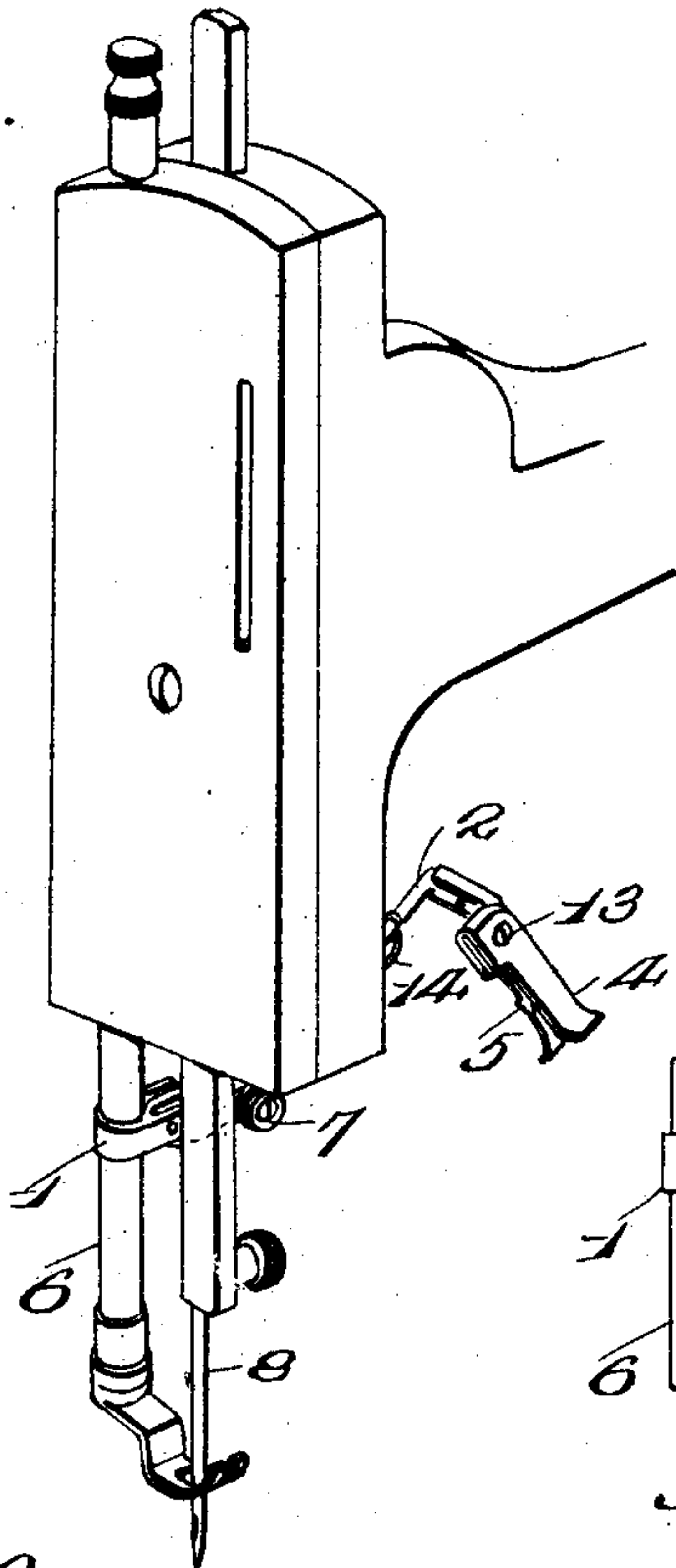


Fig. 2.

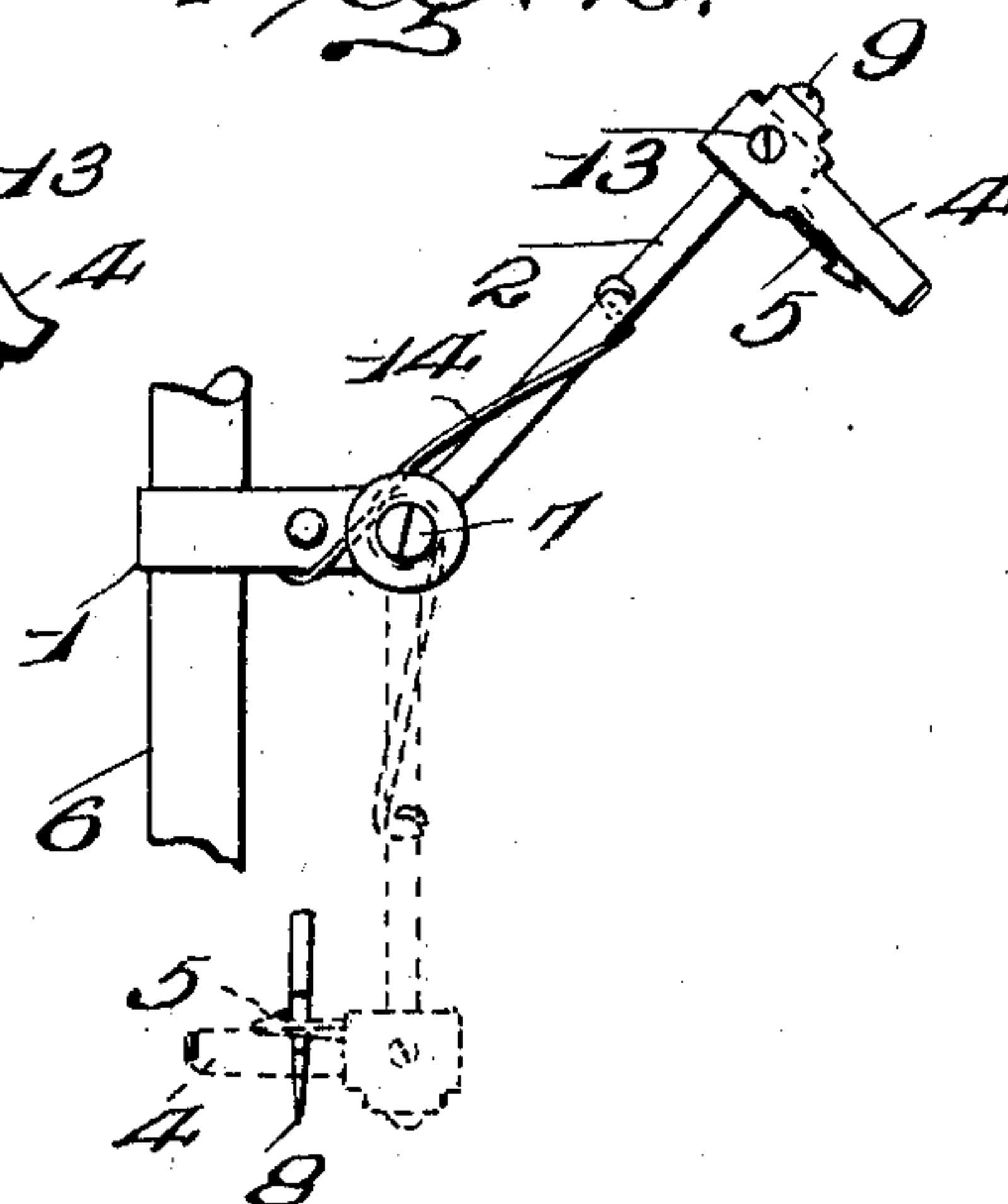


Fig. 5.

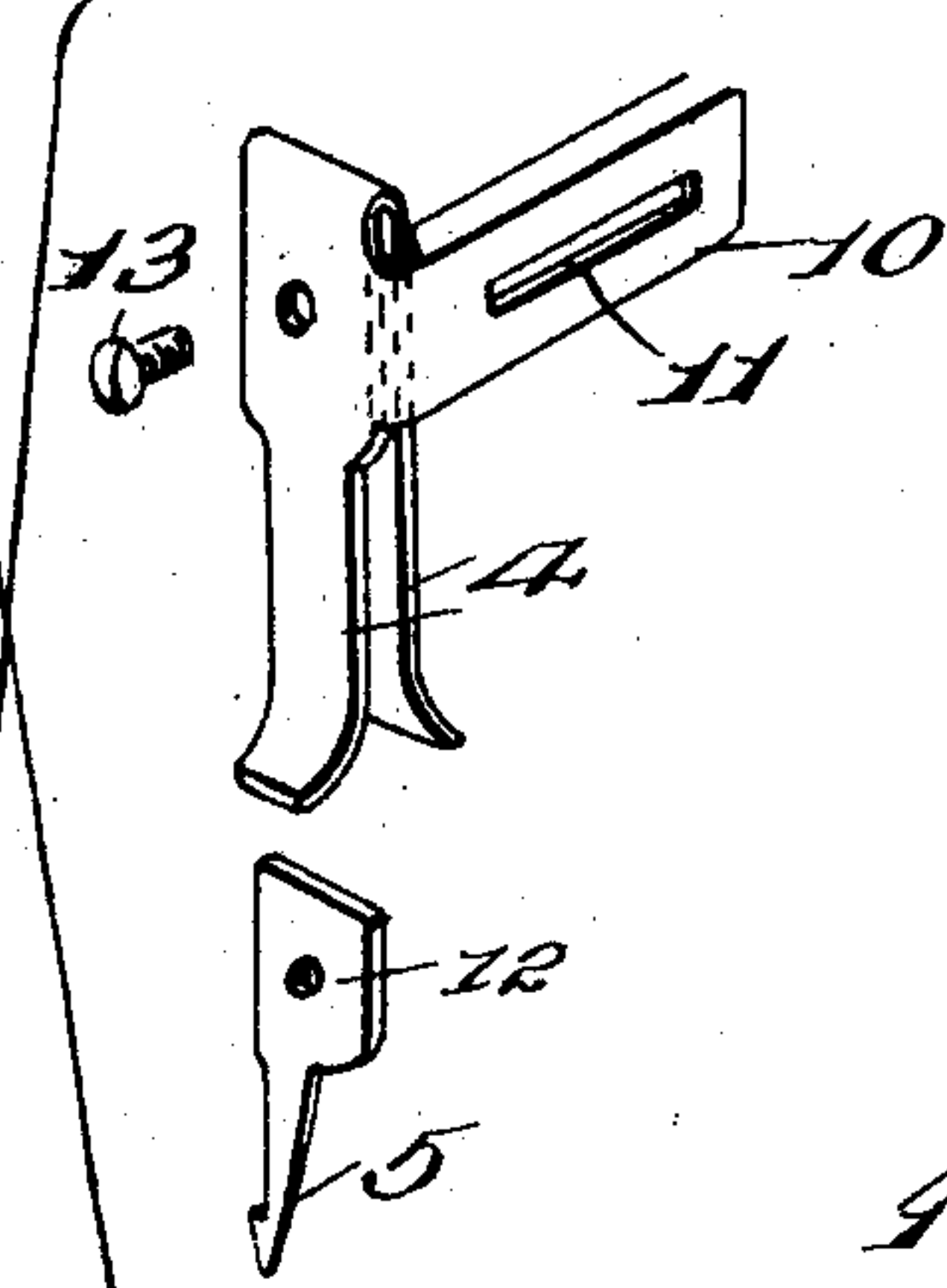


Fig. 3.

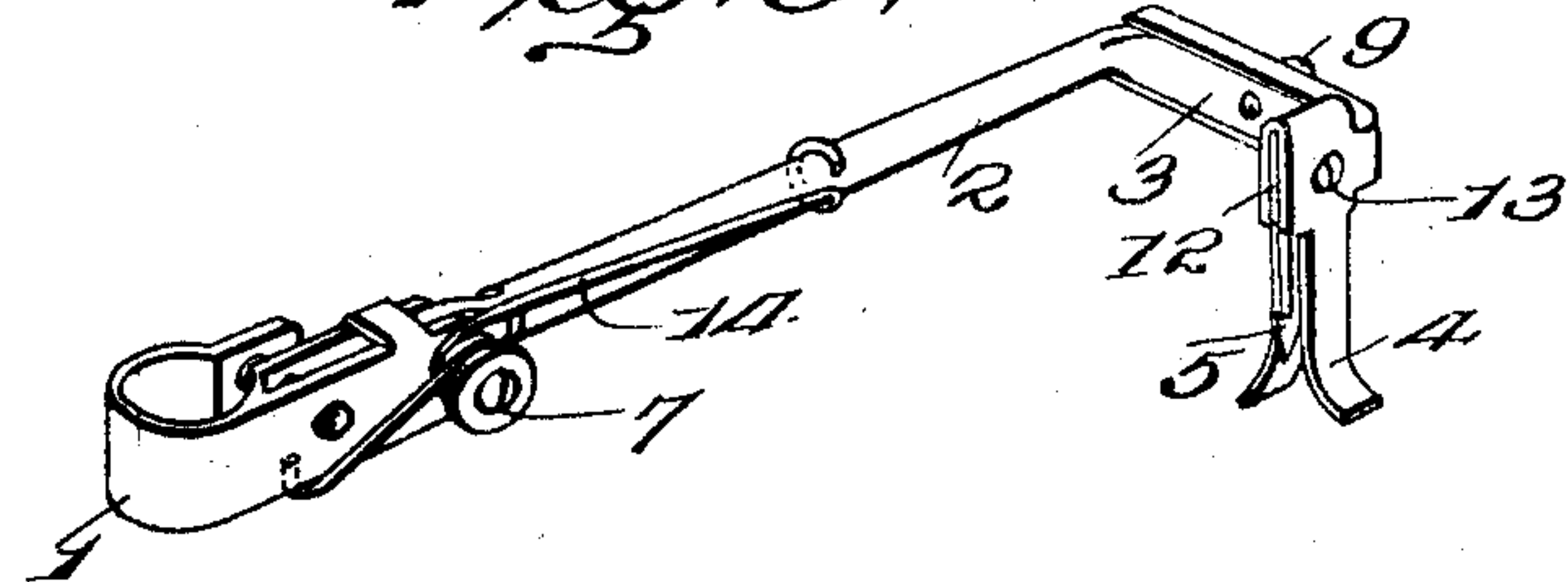
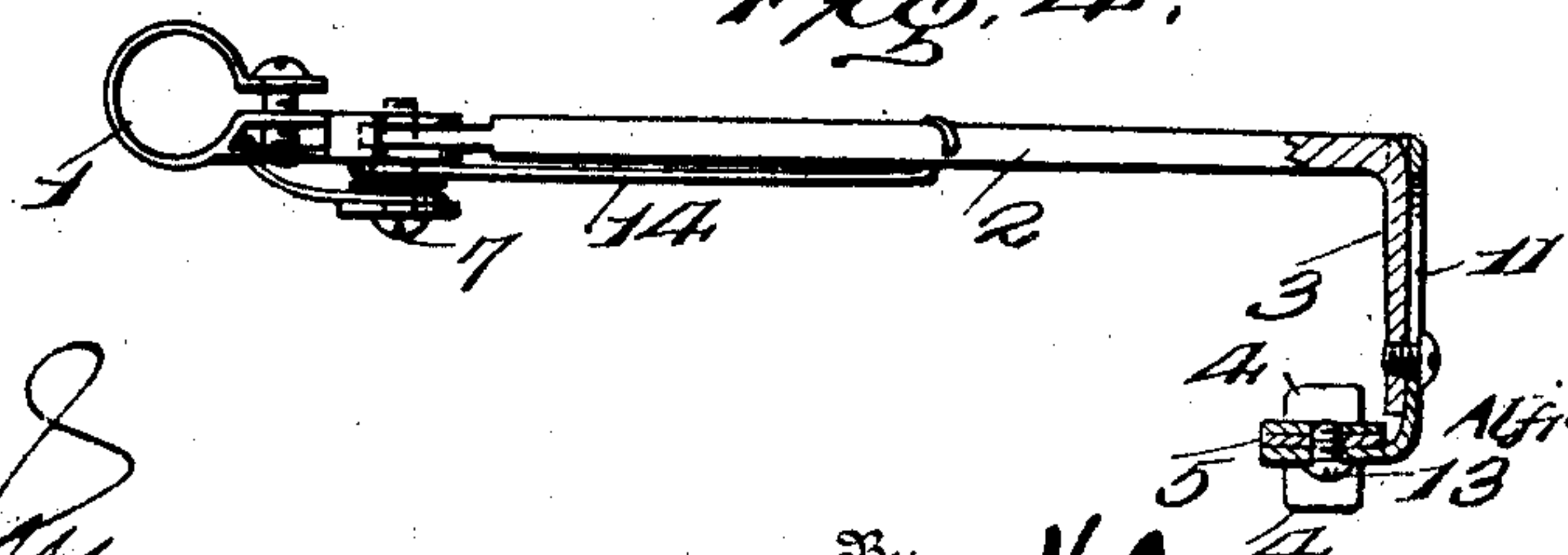


Fig. 4.



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ALFRED ANDERSON, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR TO GLOBE MANUFACTURING COMPANY, OF MINNEAPOLIS, MINNESOTA.

SEWING-MACHINE-NEEDLE THREADER.

No. 906,985.

Specification of Letters Patent.

Patented Dec. 15, 1908.

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To all whom it may concern:

Be it known that I, ALFRED ANDERSON, citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Sewing-Machine-Needle Threaders, of which the following is a specification.

The present invention provides an attachment for sewing machines to admit of the needle being quickly, easily and conveniently threaded, the attachment being of such formation as to be secured to the machine so as always to be in position for instant use, thereby preventing misplacement or loss of the same should it be separated from the machine and employed as any other attachment required to be placed in position for use. The threader is of such construction and arrangement as not to interfere with the ordinary use of the sewing machine or the employment of the accustomed attachments, yet being fitted thereto in position for instant use when it is required to thread the needle.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which:

Figure 1 is a perspective view of the end of the sewing machine arm provided with the presser foot and needle bars having the attachment in position. Fig. 2 is a front view of the attachment showing a portion of the presser foot bar and the sewing machine needle, the full lines showing the threader in its normal position when thrown up out of the way, and the dotted lines indicating the position of the threader after the threader hook has been passed through the eye of the sewing machine needle. Fig. 3 is a perspective view of the attachment. Fig. 4 is a top plan view of the attachment, a portion of the pivoted bar and the threader proper being in section. Fig. 5 is a detail perspective view of the threader proper and threader hook, the parts being separated.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The attachment consists of a clip 1, rod or bar 2 pivoted to the clip 1 and provided at its lower end with a horizontal extension 3 and a threader fitted to the horizontal extension 3 and comprising guides 4 and a hook 5. The clip 1 is designed to secure the attachment to the presser bar 6 of a sewing machine, said clip having an extension to which the rod or bar 2 is pivoted. The clip 1 may be of any construction so long as it serves the purpose of securing the attachment to the presser bar in the required position. The rod or bar 2 may be connected to the clip 1 by a pivot fastening 7 of any type so long as it admits of the rod or bar swinging to carry the threader towards or away from the sewing machine needle 8. The horizontal extension 3 at the lower end of the rod or bar 2 forms a part of the latter and is flattened and receives the threader, which is adjustable thereon and adapted to be secured in the required position by means of a set screw 9.

The threader comprises a shank 10 which receives the horizontal extension 3, said shank being channeled and having its longitudinal flanges spaced apart a distance to engage with opposite longitudinal edges of the horizontal extension 3. A slot 11 is formed lengthwise of the shank 10 to receive the set screw 9, thereby admitting of the threader being adjustable on the horizontal extension 3. The guides 4 consist of plates arranged at a right angle to the shank 10 and preferably form a part thereof, said guides consisting of a strip doubled upon itself and having its end portions flared to admit of ready adjustment of the threader to the sewing machine needle when required to thread the latter. The hook 5 is extremely slender so as to pass through the eye of the smallest sized sewing machine needle and engage with the thread and draw the same through the eye. The hook 5 is provided with a shank 12 which is secured between the rear ends of the guides 4 by means of a set screw 13, said set screw also serving to draw the guides together more or less to insure the point of the hook 5 passing through the eye of the needle when the threader is properly adjusted. A spring 14 is mounted upon the pivot fastening 7 and its end portions project and

engage with, respectively, the clip 1 and the rod or bar 2, said spring serving to normally hold the threader elevated and out of the way.

5 When adapting the attachment to a sewing machine it is secured to the presser bar 6 by means of the clip 1, the threader being adjusted on the horizontal extension 3 to cause the hook 5 to pass through the eye of the
10 needle 8 when the latter is lowered and the rod or bar 2 pressed downward into an approximately vertical position. The hook 5 is located about in the plane of the upper edge of the guides 4, so that when thrust through
15 the eye of the needle the thread may engage therewith so that as the hook is withdrawn from the eye, the thread is carried there-through. The attachment is exceedingly light and when in position is normally out of
20 the way and when required for use may incidentally be moved to cause the hook to assume a position to pass through the eye of the needle when the latter is lowered or adjusted to the proper height. When releasing the clip upon the rod or bar 2, the spring
25 14 comes into play and moves the same so as

to throw the threader out of the way of the needle and needle bar, so as not to interfere with any attachments that may require connection therewith.

Having thus described the invention, what is claimed as new is:

The herein described threader attachment for sewing machines, the same comprising a clip, a rod or bar having pivotal connection
35 with the clip and provided with a horizontal extension, a spring interposed between the clip and rod or bar, a shank adjustably fitted to said extension and having a channel forming flanges which embrace the longitudinal
40 edge portions of the said extension, means for securing the shank to the horizontal extension in an adjusted position, spaced guides forming a part of said shank, and a threaded
45 hook secured between said guides.

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

ALFRED ANDERSON. [L. S.]

Witnesses:

GEO. C. HARPER,
GEO. L. START.