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C. I. FULLER.  
GUARD FOR INSEAM SEWING MACHINES.  
APPLICATION FILED JAN. 13, 1906.

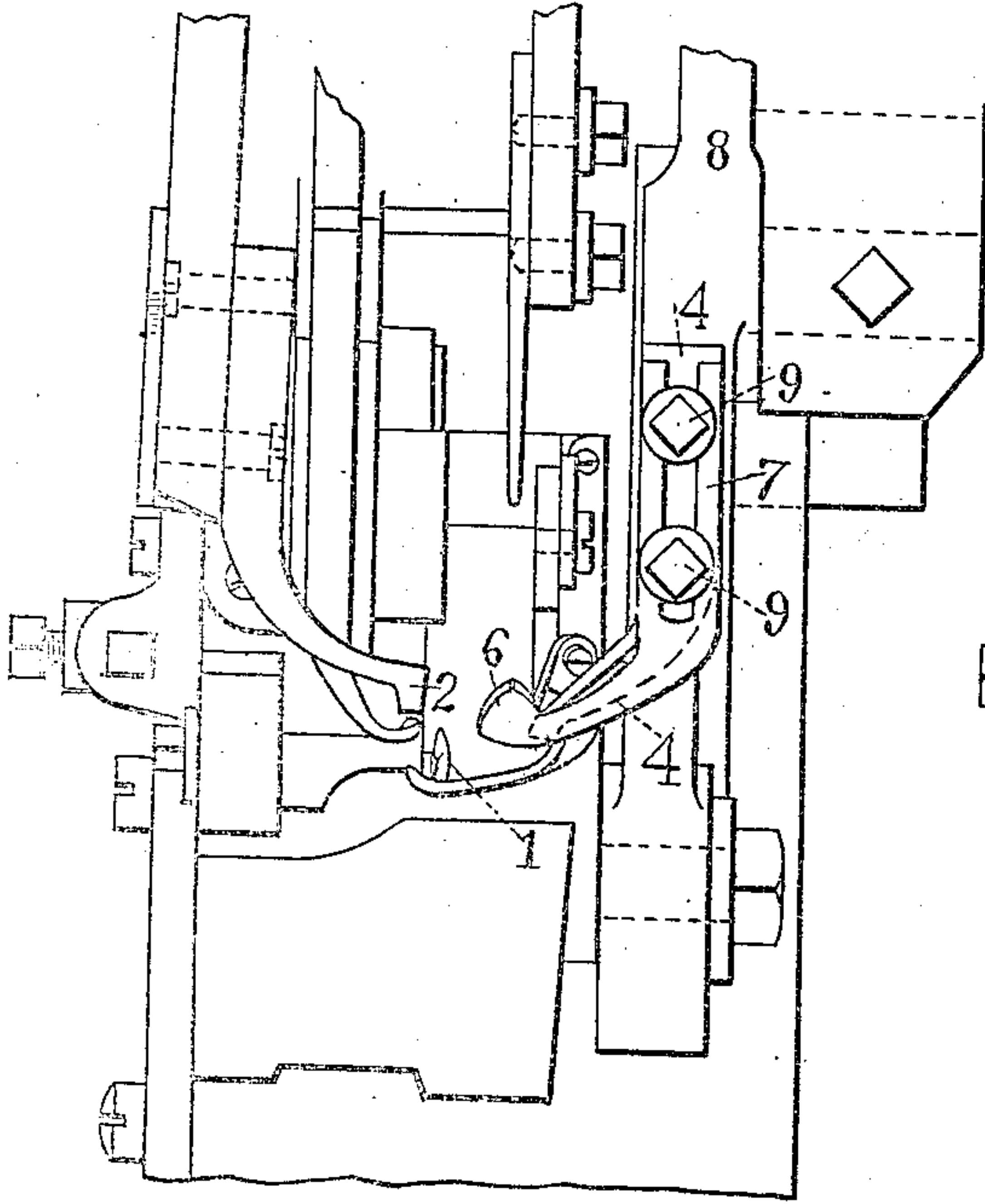


Fig. 1.

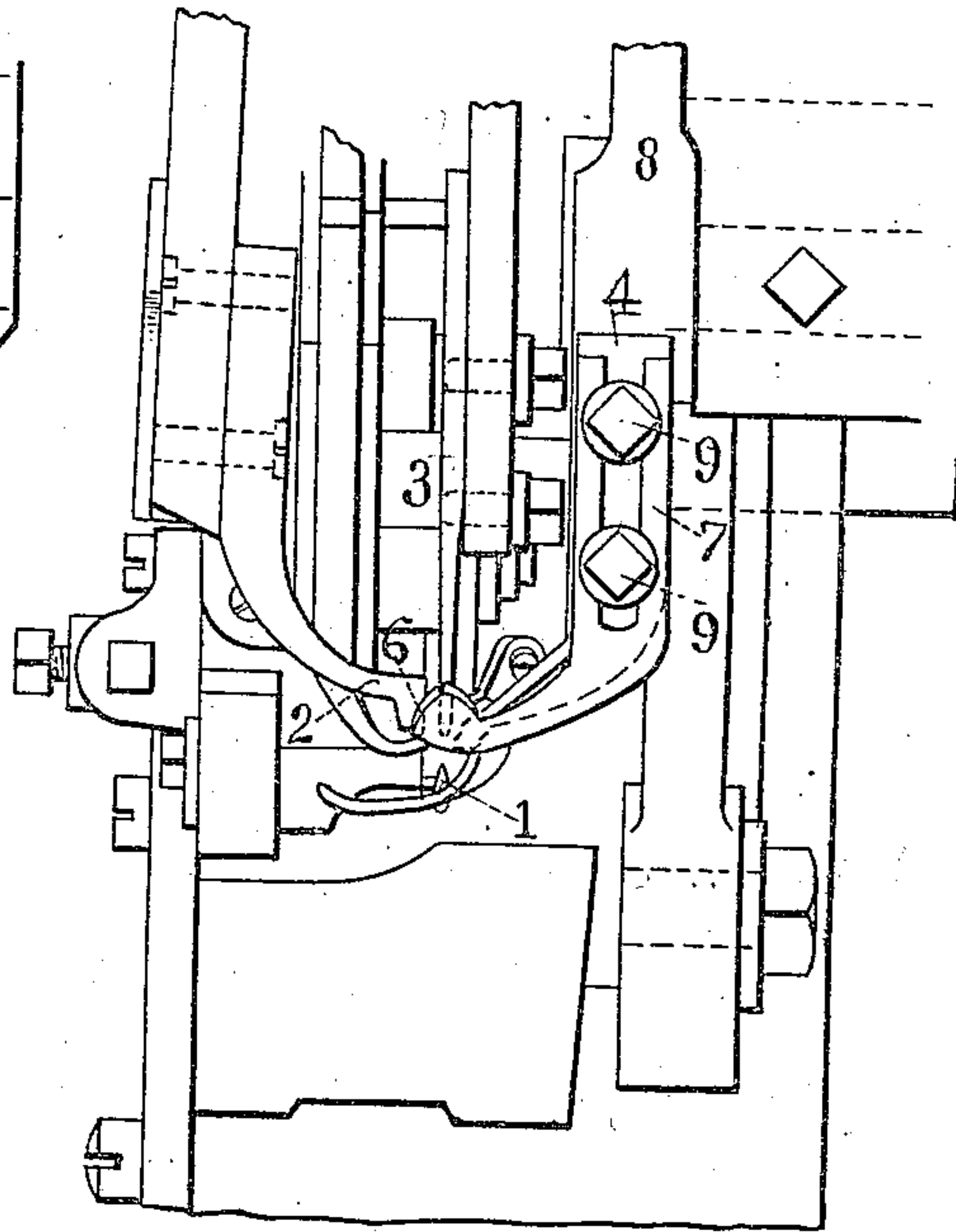


Fig. 2.

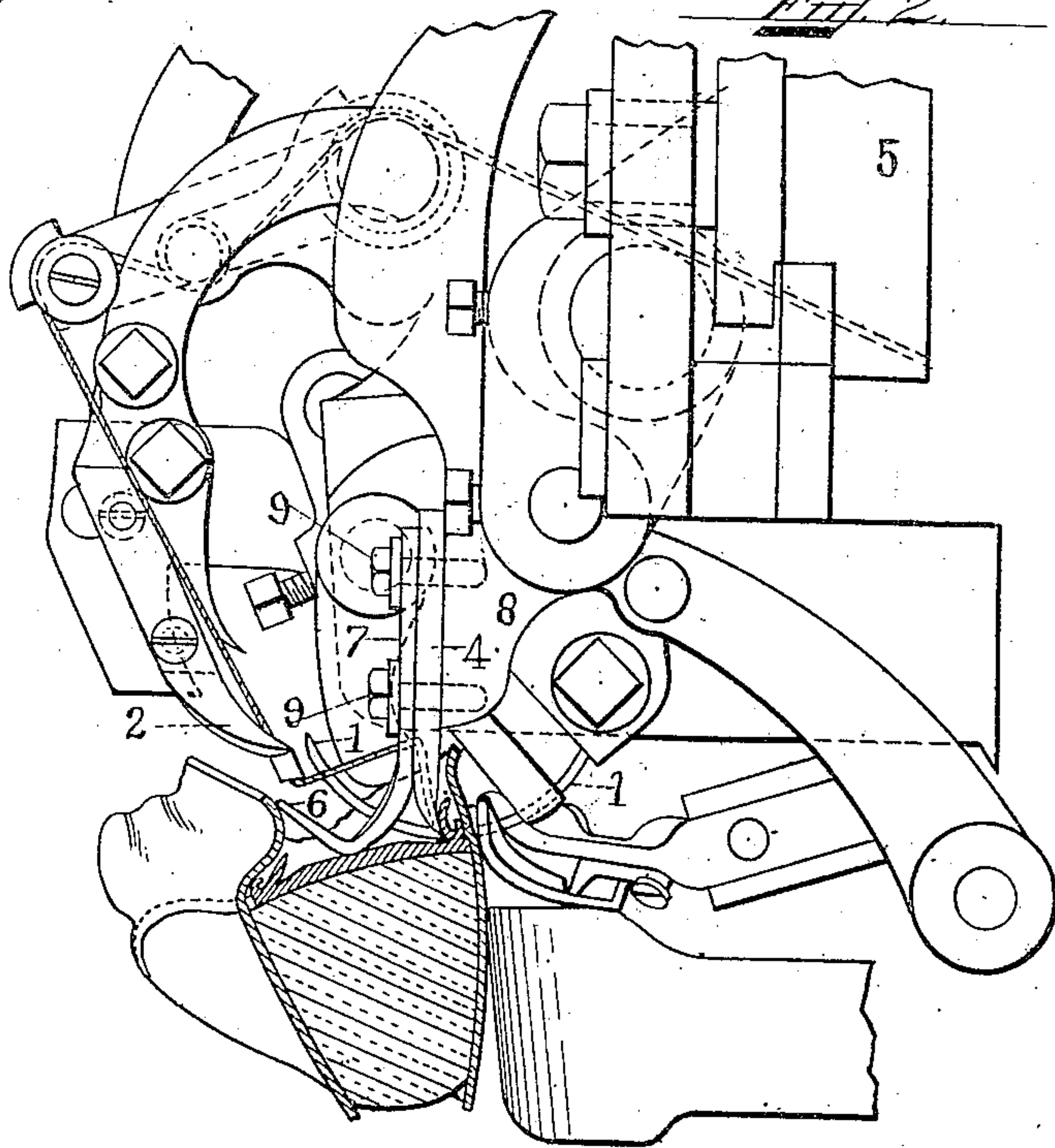


Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## GUARD FOR INSEAM-SEWING MACHINES.

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Specification of Letters Patent.

Patented Nov. 13, 1906.

Application filed January 13, 1906. Serial No. 295,843.

*To all whom it may concern:*

Be it known that I, CHARLES IRVING FULLER, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Guards for Inseam-Sewing Machines; and I do hereby 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.

The present invention relates to an improved guard for inseam-sewing machines.

Shoes are frequently or usually lasted with an upper somewhat larger than is necessary to reach over the edge of the sole or insole, so that after the upper has been secured by the lasting-tacks or other means a margin of varying and frequently considerable width projects upwardly from the edge of the sole. When the shoe is narrow, and particularly at the shank portion of the shoe, the margin of the upper frequently projects so far from one side as to cause inconvenience in sewing the inseam at the opposite side of the shoe, since the surplus upper material projects into the space in which the sewing instrumentalities of the machine are moving, so as to be pierced by the needle or the feed-point or to interfere with the proper looping of the needle by the looper. The danger of such accidental contact necessitates either the preliminary trimming of the upper to reduce the width of the margin or other precautions on the part of the sewing-machine operator and causes much inconvenience and loss of time.

The object of the present invention is to produce a guard for use on inseam-sewing machines of the curved hooked-needle type, which will prevent accidental contact between the upper and the sewing instrumentalities and will relieve the operator from the necessity of any precautions to this end; and the invention consists in the devices and combinations of devices hereinafter described, as defined in the claims.

In the drawings, Figures 1 and 2 are front elevations of portions of an inseam-sewing machine in which the invention is embodied; and Fig. 3 is a side elevation of the same parts, showing also in section a shoe upon which the machine is operating.

The invention is illustrated as embodied in

an inseam-sewing machine of the well-known Goodyear type, which is described with substantial accuracy in Letters Patent of the United States No. 412,704, granted October 8, 1889, to French and Meyer. In the drawings the curved hooked needle 1, the looper 2, the feed-point 3, and the channel-guide 4 are all constructed and operated as shown in the patent referred to. The feed-point 3 and the channel-guide 4 are mounted upon a slide 5, by which the lateral feeding movements are imparted to these instrumentalities and which forms, therefore, part of the feed mechanism.

The guard forming particularly the subject of the present invention comprises a small outwardly-inclined plate 6, provided with a slotted shank 7, by which it is secured upon the channel-guide carrier 8, the shank 7 and the channel-guide 4 being both secured to the carrier 8 by the same screws 9.

As the feed-point 3 falls and enters the channel, the needle being retracted and the looper idle, the guard occupies the position of Fig. 1 directly in front of the feed-point and holds the margin of the shoe-upper away from the feed-point, as shown in Fig. 3. In the subsequent left-hand feeding movement of the feed-point and channel-guide the guard being connected, as above described, with the feeding mechanism moves with the feed-point to the position of Fig. 2, in which it is directly in front of the needle. During the subsequent advance of the needle and the looping operation of the looper the guard holds the upper away from these parts.

The lateral movement of the guard resulting from its connection with the feed mechanism, while not an essential feature of the invention in its broader aspects, is useful, as it permits the use of a very narrow guard which does not substantially obstruct the view of the operator or interfere with the manipulation of the work. It also prevents any retardation of the feed movement which might result from friction between the guard and the sole or upper of the shoe in contact with it. The slotted shank of the guard permits vertical adjustment, and the manner in which it is secured to the machine permits its application without any alteration or additional parts whatever in the machine.



The present invention is not limited to the details of construction and operation of the illustrated embodiment, but may be embodied in other forms broadly defined in the 5 claims.

Having now described the invention, what is claimed is—

1. An inseam-sewing machine having, in combination, a curved, hooked needle, a 10 looper, and a guard located in front of the needle and looper so as to prevent contact between these parts and the upper projecting from the side of the shoe opposite to that on which the machine is operating, substan- 15 tially as described.

2. An inseam-sewing machine having, in combination, a curved, hooked needle, a 20 looper, a feed-point, and a guard interposed between the feed-point and the upper projecting from the side of the shoe opposite to that on which the machine is operating, substantially as described.

3. An inseam-sewing machine having, in combination, a curved, hooked needle, a 25 looper, feed mechanism including a feed-point, and a guard located in front of the feed-point and connected with the feed

mechanism so as to move laterally in unison with the feed-point into position in front of the needle and looper, substantially as de- 30 scribed.

4. An inseam-sewing machine, having, in combination, a curved, hooked needle, a looper, feed mechanism including a feed- 35 point, a channel-guide, and a guard, and screws passing through both the channel-guide and the guard and securing them to a portion of the feed mechanism, substantially as described.

5. An inseam-sewing machine having, in 40 combination, sewing instrumentalities including a curved, hooked needle and a looper and a vertically-adjustable guard located between the sewing instrumentalities and the 45 portion of the upper projecting from the side of the shoe opposite to that on which the machine is operating, substantially as described.

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

CHAS. IRVING FULLER.

Witnesses:

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