

No. 844,482.

PATENTED FEB. 19, 1907.

R. SUMMERS.
DEVICE TO ASSIST IN THREADING NEEDLES.

APPLICATION FILED NOV. 15, 1906.

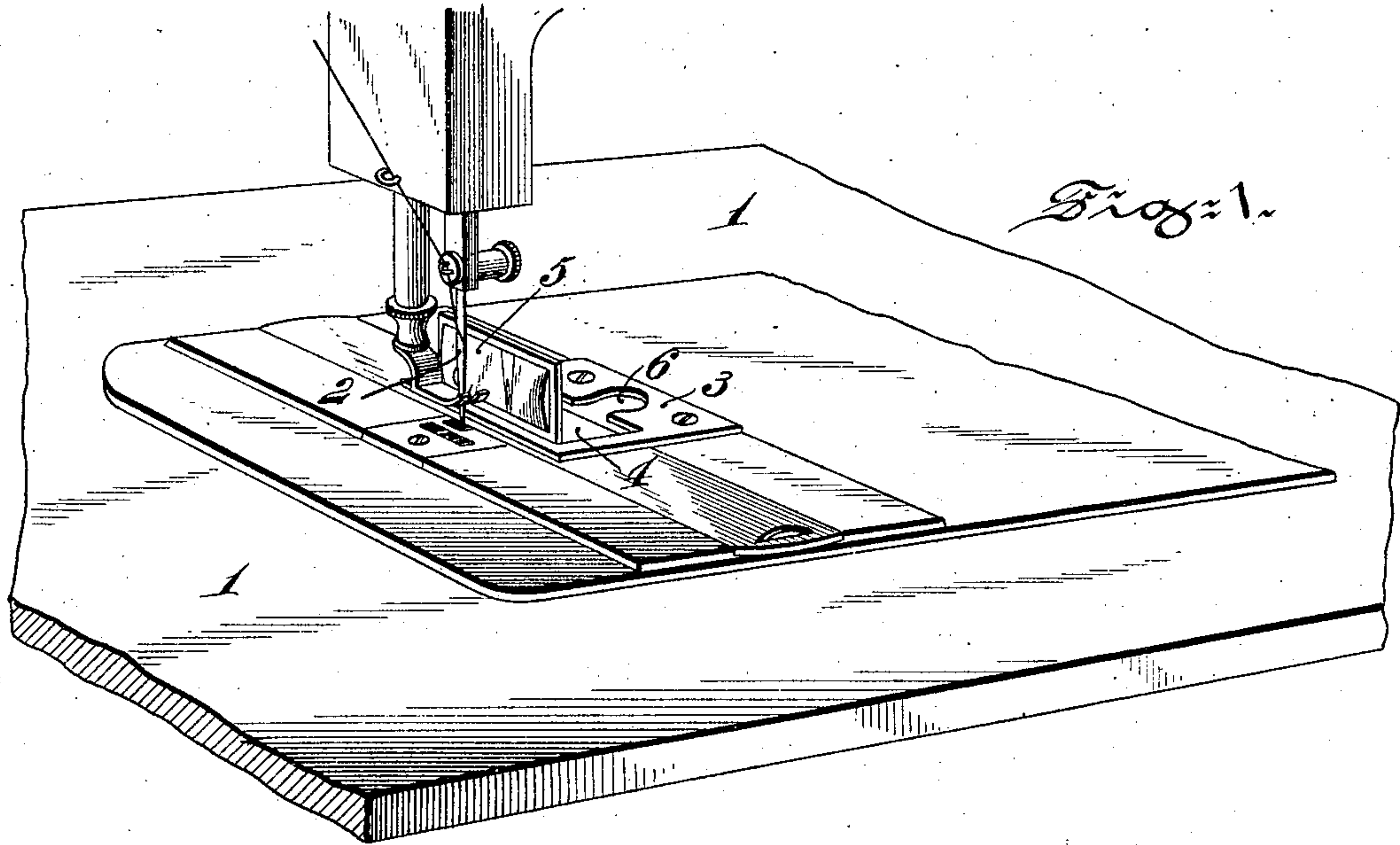


Fig. 2.

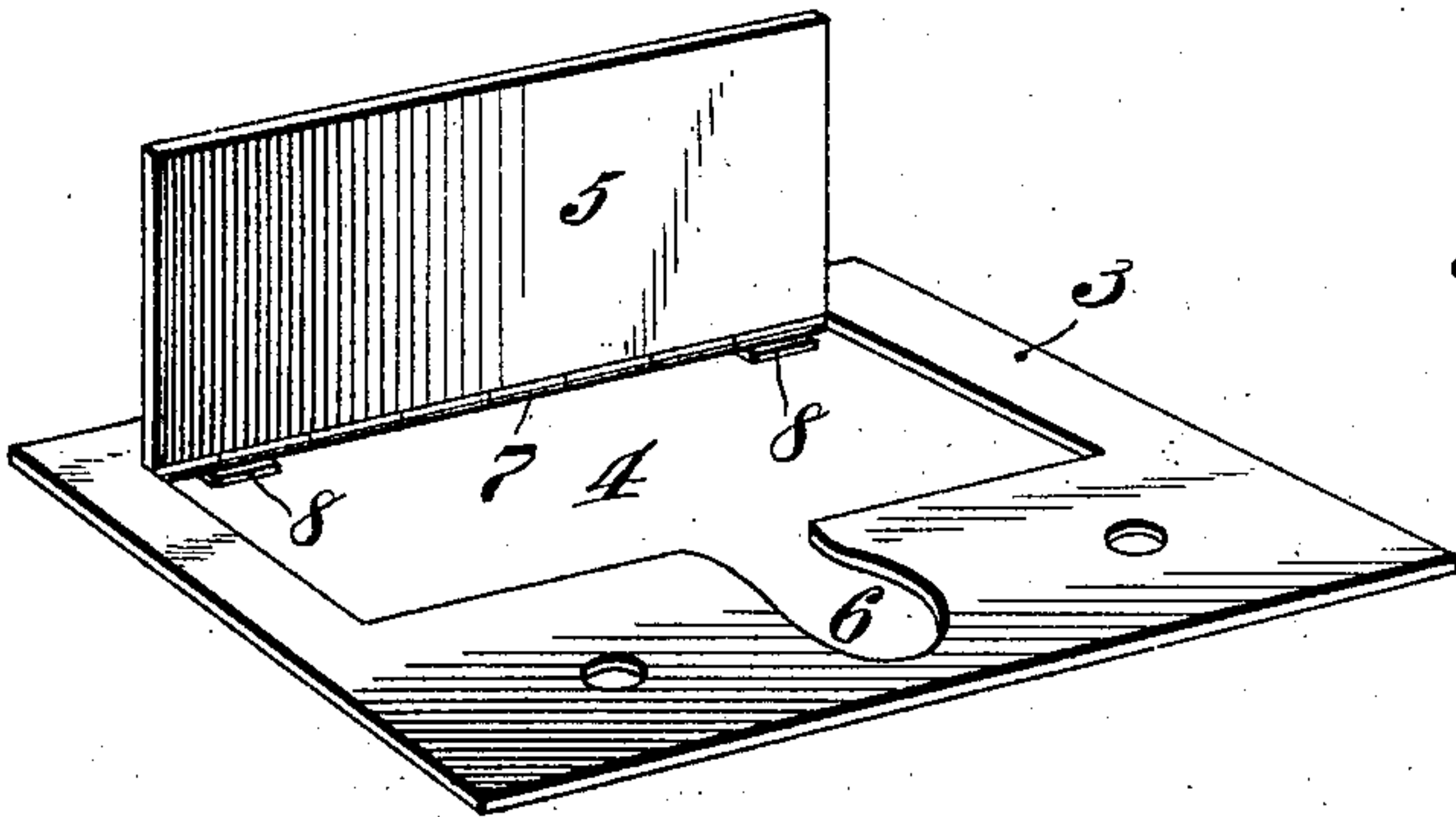


Fig. 3.

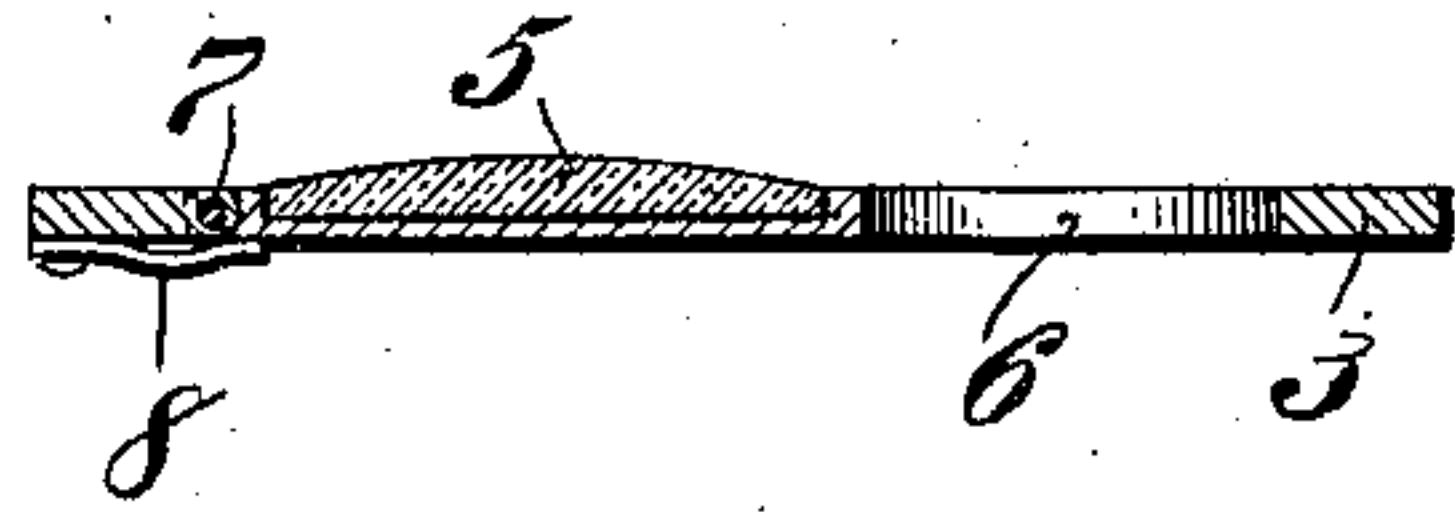
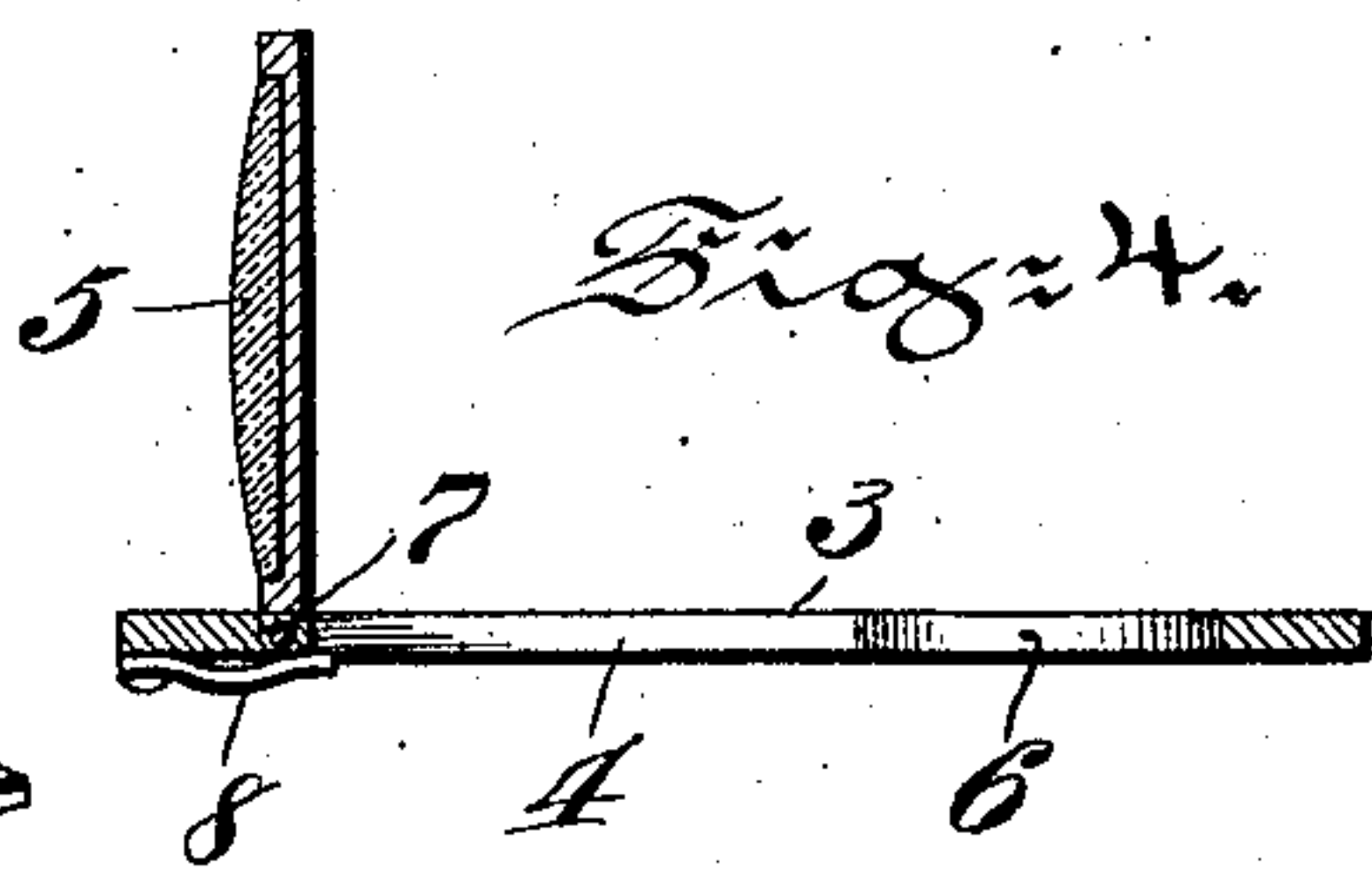


Fig. 4.



WITNESSES:

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DEVICE TO ASSIST IN THREADING NEEDLES.

No. 844,482.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed November 15, 1906. Serial No. 343,486.

To all whom it may concern:

Be it known that I, ROBERT SUMMERS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Device to Assist in Threading Needles, of which the following is a specification.

My invention relates to a device to be used in connection with a sewing-machine whereby the eye of the needle may be more readily perceived when it is desired to thread the same; and the object of my invention is to provide a magnifying-mirror located in proximity to the needle which shall not interfere with the ordinary operation of the machine, but which may be readily brought into position for use when desired.

The nature and scope of my invention will be more readily understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a perspective view of the device of my invention in position on a sewing-machine. Fig. 2 is a perspective view of the device detached from the machine. Fig. 3 is a cross-sectional view of the device with the parts in the position assumed when not in use, and Fig. 4 is a similar view with the mirror in raised or operative position.

Referring to the drawings, 1 is the bed or table of a sewing-machine, and 2 is the needle of the same. To the bed 1 in proximity to the needle 2 is secured in any suitable manner a plate 3. This plate 3 may, if desired, be the usual metal slide commonly arranged over the shuttle-race of the sewing-machine. Plate 3 is cut out, as at 4, to provide an opening into which is fitted a mirror 5, so arranged and hinged as to normally lie

flush with plate 3 and yet adapted to be raised into the position shown in Fig. 1 to reflect an image of the needle 2, so as to enable the eye of said needle to be more readily perceived, and thereby assist in the operation of threading the same. To still further enhance the effectiveness of the device, the mirror 5 is preferably made magnifying in its action. To permit of easily raising the mirror from its lowered or flush position, there is provided an opening 6, constituting an extension of opening 4, to allow the finger to be inserted beneath the mirror when it is desired to raise the same. To maintain the mirror in its respective raised or lowered positions, the hinge 7 is provided with a spring 8, operating in the well-known manner of such devices.

I claim—

1. In a device of the character described, a plate located in proximity to the needle, a mirror hinged in an opening in said plate in such manner as to be flush with the same or to be raised in position to reflect an image of said needle when it is desired to thread the same.

2. In a device of the character described, a plate located in proximity to the needle, said plate having an opening within which is hinged a mirror adapted to reflect an image of the needle when said mirror is raised, said opening having an extension to permit of inserting the finger to raise said mirror.

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

ROBERT SUMMERS.

Witnesses:

GEORGE W. SELTZE,
ALLEN H. GANGEWER.