

No. 826,876.

PATENTED JULY 24, 1906.

I. E. PALMER.
THREAD GUIDE.

APPLICATION FILED APR. 16, 1906.

Fig. 1.

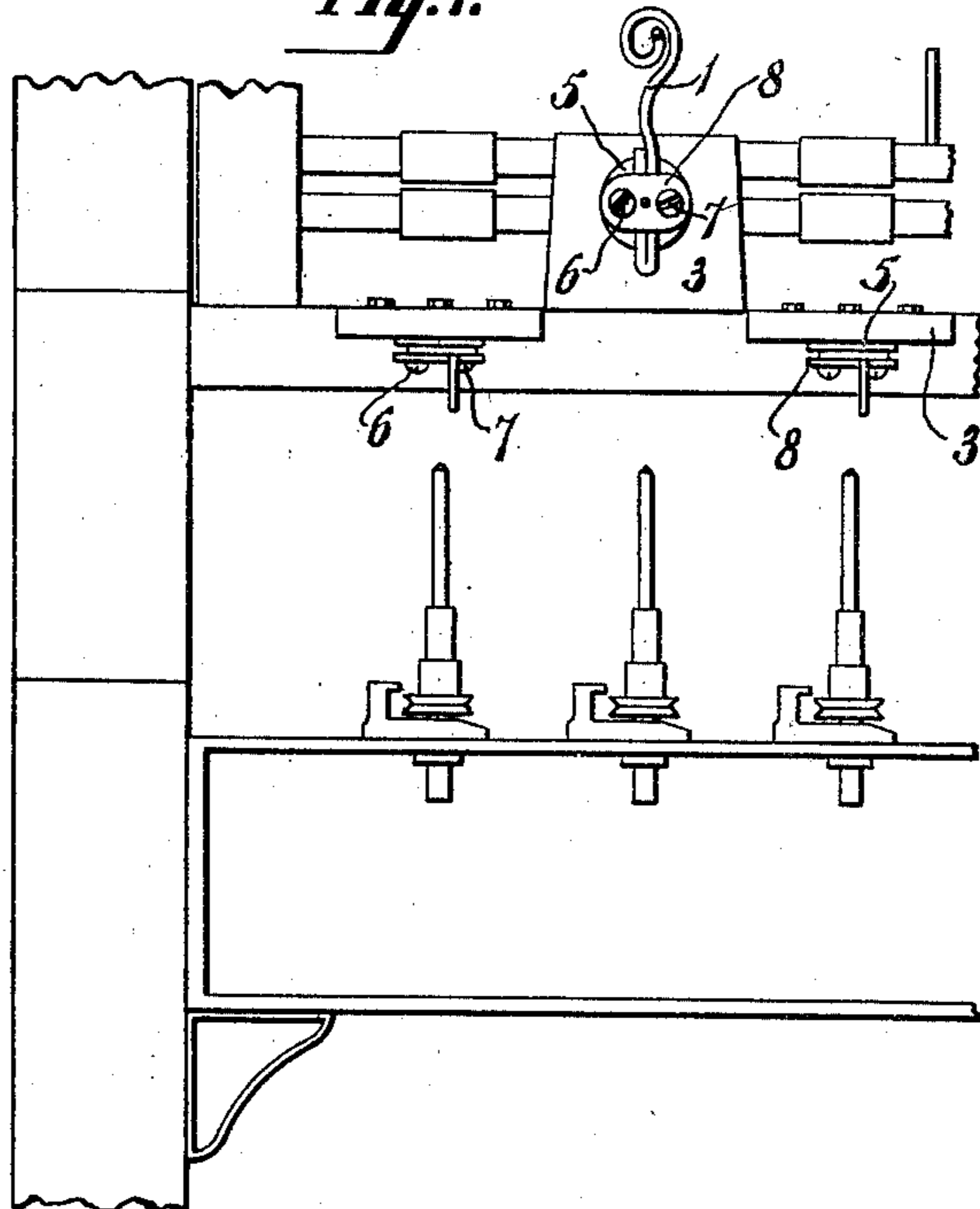


Fig. 2.

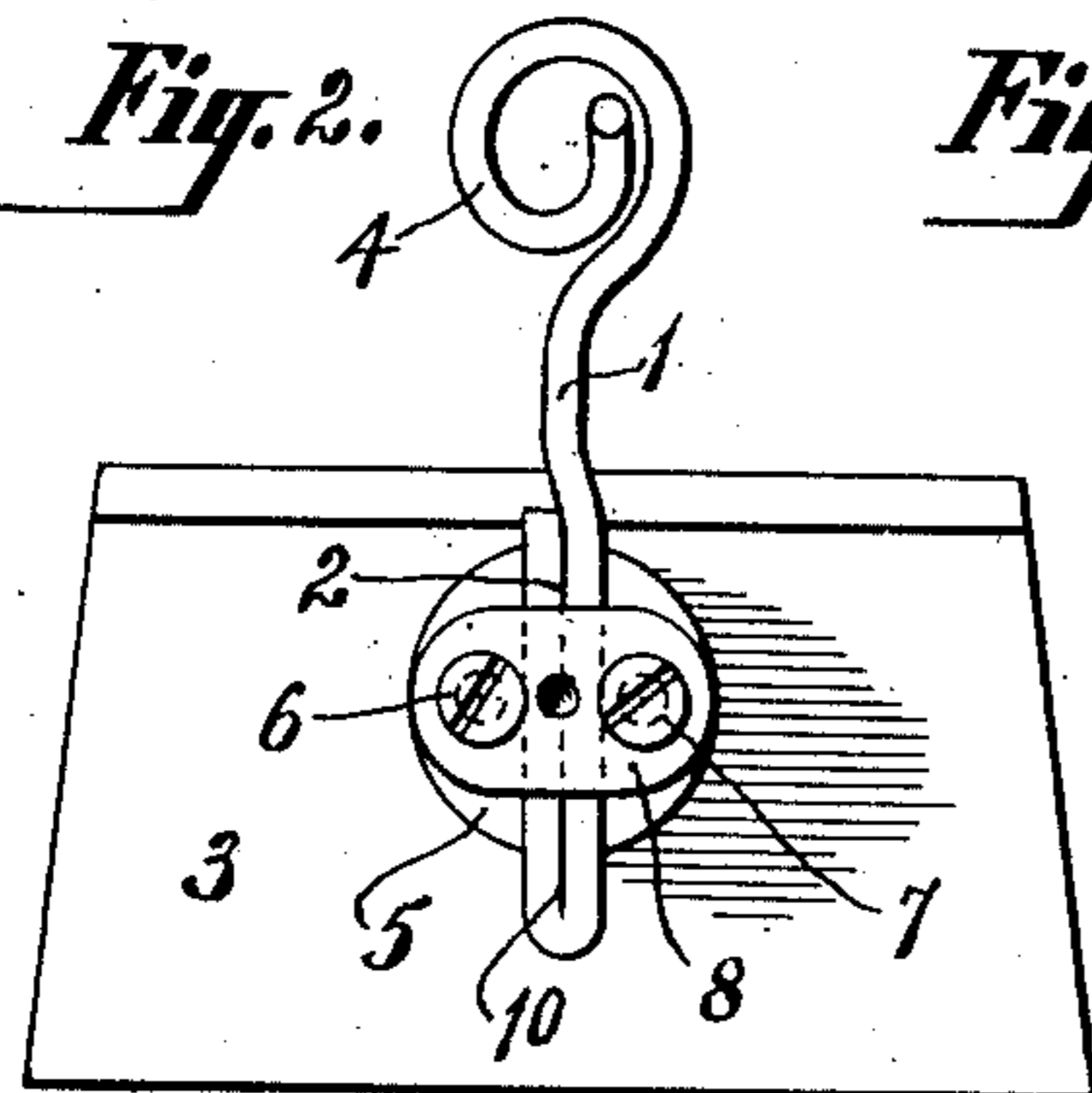


Fig. 3.

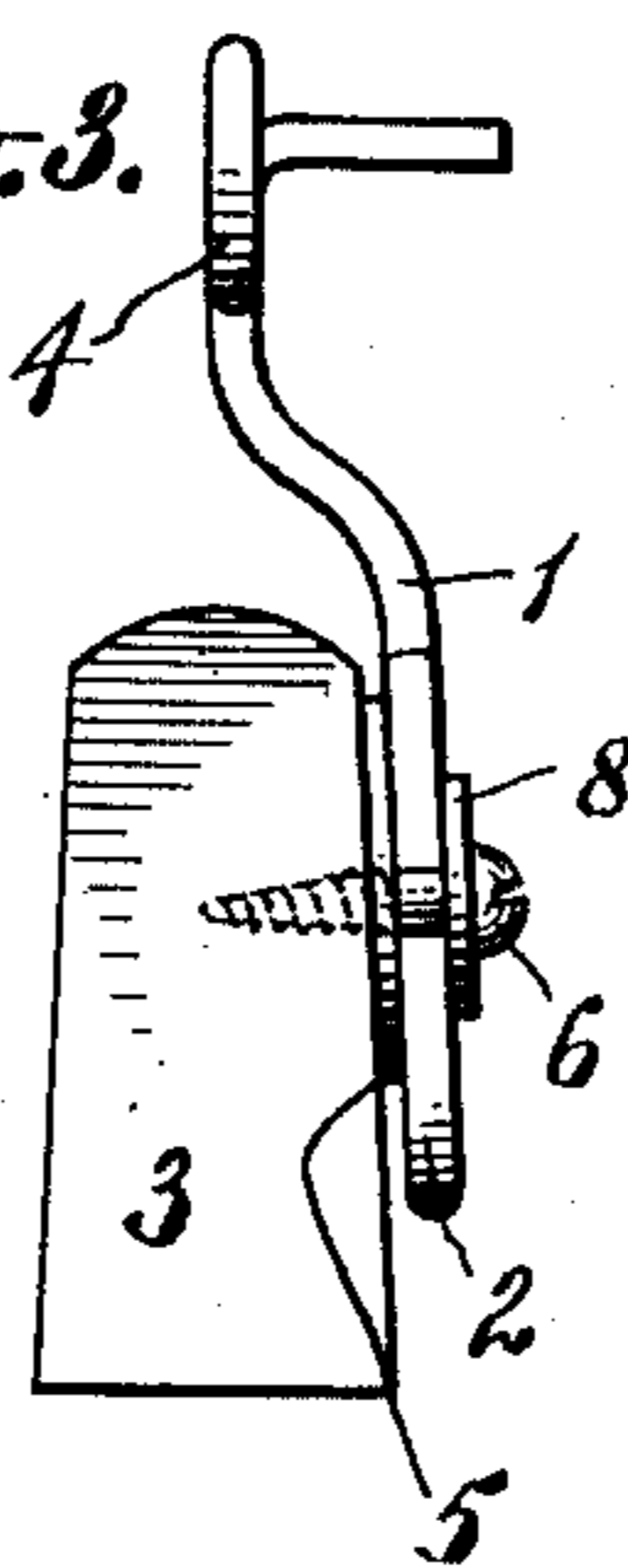


Fig. 5.

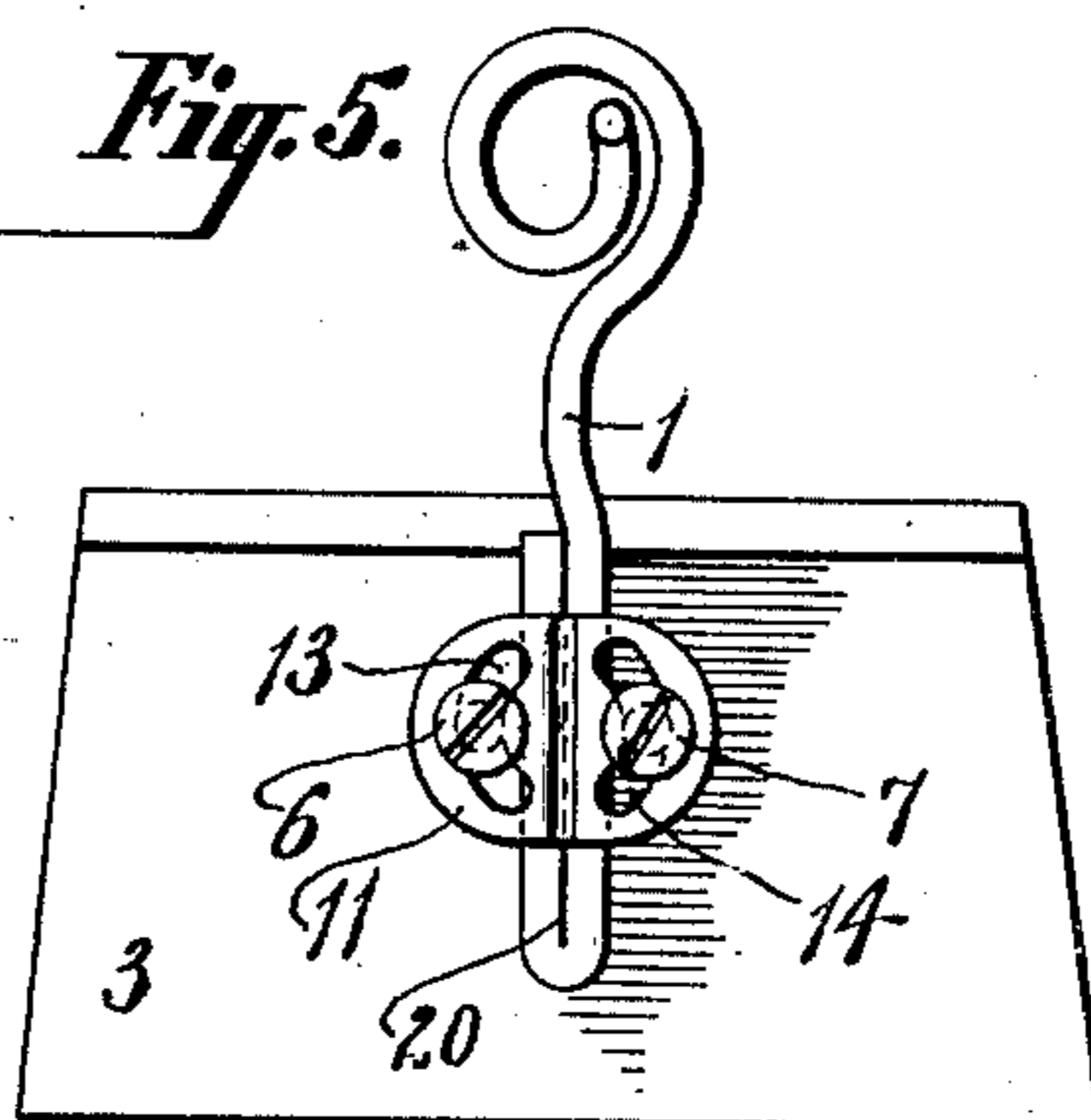


Fig. 4.

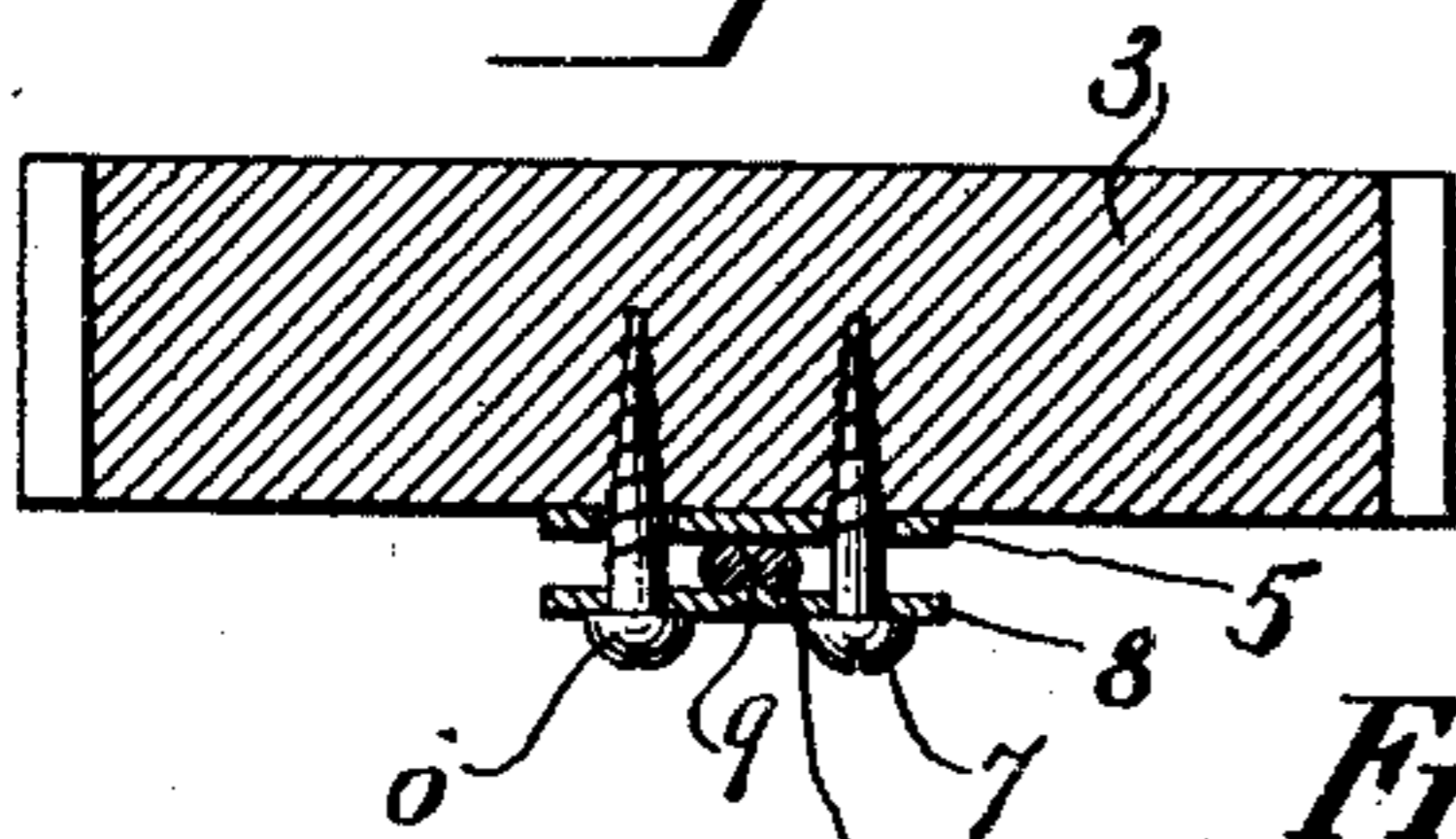
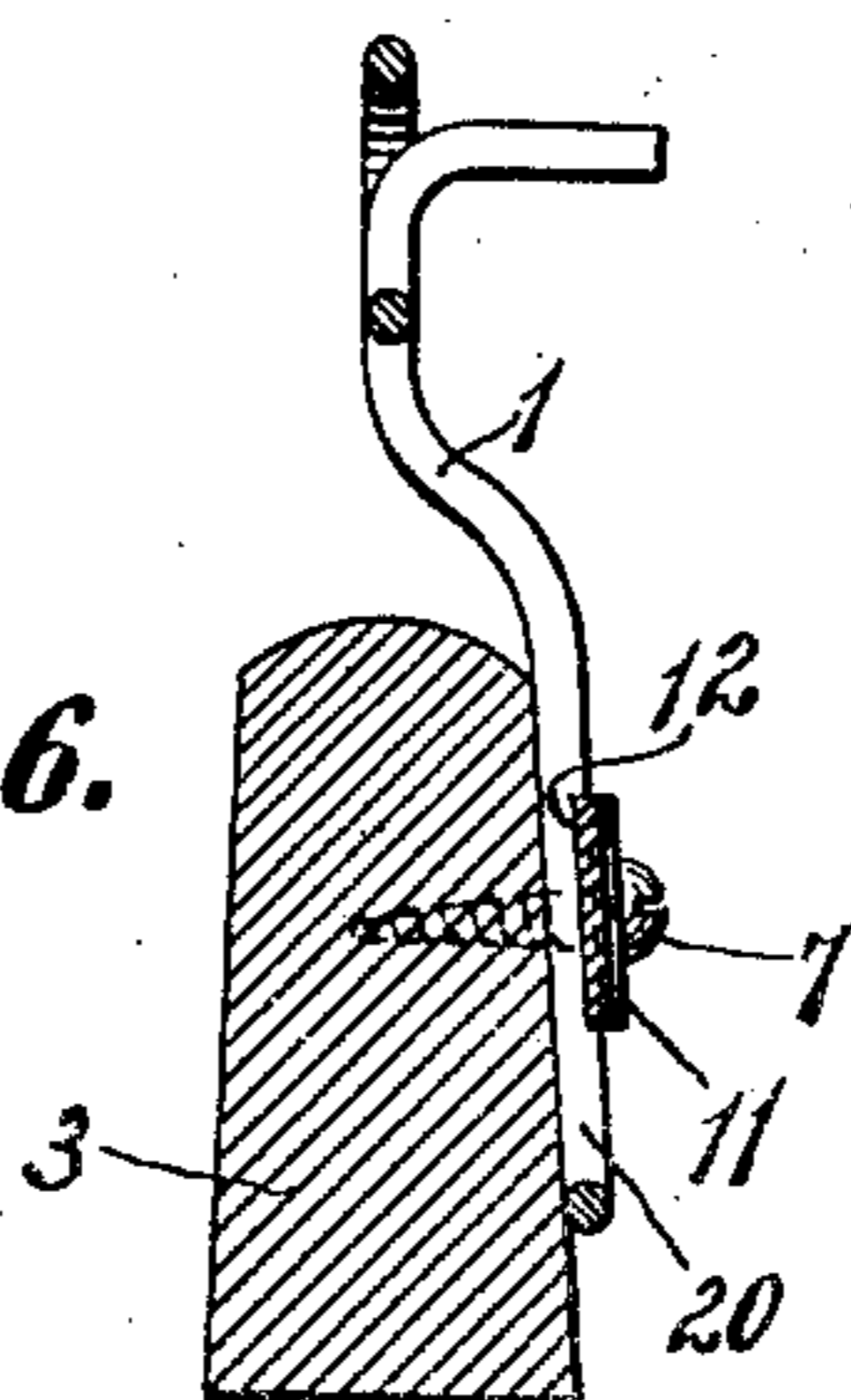


Fig. 6.



Witnesses:

J. S. Hachenburg,
Henry Thieme

Inventor:

Isaac E. Palmer
By Brown & Swart
his Attorneys

UNITED STATES PATENT OFFICE.

ISAAC E. PALMER, OF MIDDLETOWN, CONNECTICUT.

THREAD-GUIDE.

No. 826,876.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed April 16, 1906. Serial No. 311,878.

To all whom it may concern:

Be it known that I, ISAAC E. PALMER, a citizen of the United States, and a resident of Middletown, in the county of Middlesex and State of Connecticut, have invented new and useful Improvements in Thread-Guides, of which the following is a specification.

My invention relates to thread-guides, and more particularly to thread-guides adapted to be used on spinning or twisting machines where it is desirable that the eye of the guide shall be adjusted accurately over the top of the spindle.

In the accompanying drawings, Figure 1 represents a portion of a spinning-machine, showing two of the thread-guides in their horizontal position as in use and one of them turned up into a vertical position for purposes of adjustment or renewal or for gaining access to the spindle as the case may be. Fig. 2 is an enlarged bottom plan view of the thread-guide, showing its attachment to the finger-board. Fig. 3 is an edge view of the same. Fig. 4 is a transverse section. Fig. 5 is a bottom plan of a thread-guide, showing a modified form; and Fig. 6 is a transverse section of the same.

The thread-guide is shown as consisting of a piece of wire, having its shank 1 turned back along itself to form an elongated and laterally-extended portion 2 for the reception of the fastening means for securing it to the finger-board 3, the opposite end of the said wire being bent to form the eye 4 of the guide, as usual. The guide may rest on a washer or bearing-plate 5, as shown in Figs. 1 to 4, inclusive, or it may rest directly on the finger-board, as shown in Figs. 5 and 6.

In the form shown in Figs. 1 to 4, inclusive, the guide is held in position by means of two screws 6 and 7, which pass through a clamping-plate 8 and through the washer or bearing-plate 5 into the finger-board 3. The screws are located on opposite sides of the portion 2 of the guide, and the clamping-plate 8 is provided intermediate of the screws 6 and 7 with a projection 9, in the present instance a pointed or conical projection formed on its side toward the shank of the guide by simply punching the clamping-plate and raising thereby a conical-shaped projection.

This projection 9 is intended to seat intermediate of the parts formed by the return-bend of the shank and acts as a pivot on which the guide may be swung back and forth horizontally, while at the same time the guide is permitted to move outwardly and inwardly, the projection 9 sliding along a shallow groove 10 between the parts of the shank of the guide. In whatever position the guide be swung or adjusted it may be held securely in place by tightening the screws 6 and 7.

In the form shown in Figs. 5 and 6 the bearing-plate or washer is omitted and the clamping-plate (denoted by 11 and held in position by screws corresponding to the screws 6 and 7 hereinabove referred to) is provided with a rib 12 instead of a simple conical projection, the said rib 12 being located transversely of the plate and in position to enter the shallow groove 20 between the parts of the shank of the guide to hold it in position when the screws are tightened. In this instance the clamping-plate 11 is provided with elongated openings 13 14 for the screws, so that the plate 11 may be tilted edgewise, carrying with it the guide to locate the guide in the proper horizontal adjustment, while at the same time the guide may be slid along the rib 12 to give it its proper adjustment outward and inward.

What I claim is—

1. A thread-guide having its shank turned back along itself, a clamping-plate provided with a projection engaging the parts of the shank and means for fastening the clamping-plate to the finger-board.

2. A thread-guide having its shank turned back along itself, a clamping-plate provided with a rounded projection adapted to engage the parts of the shank of the guide and means for fastening the clamping-plate to the finger-board.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 14th day of April, A. D. 1906.

ISAAC E. PALMER.

Witnesses:

FRANK P. HAYDEN,
ALFRED J. BAIER.