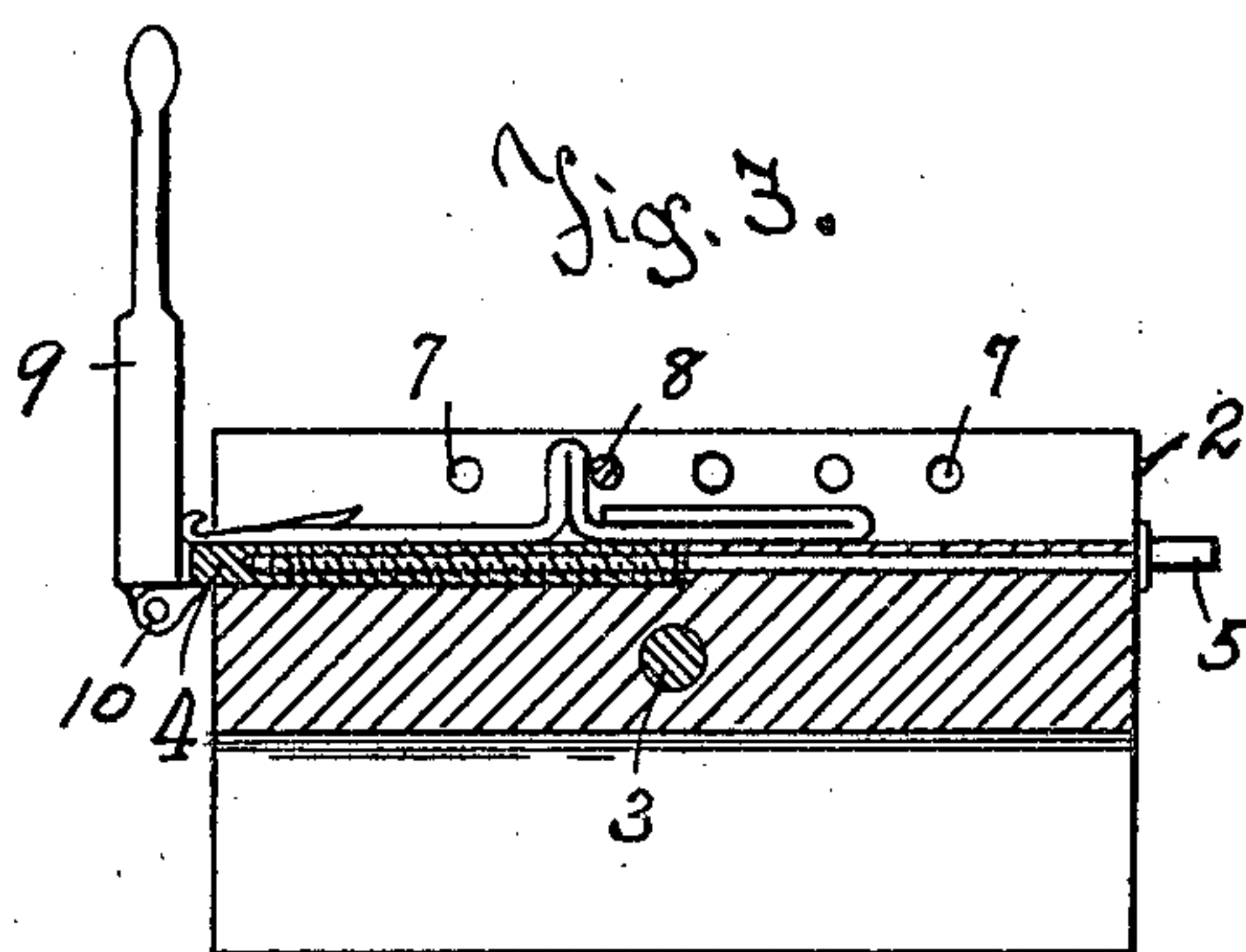
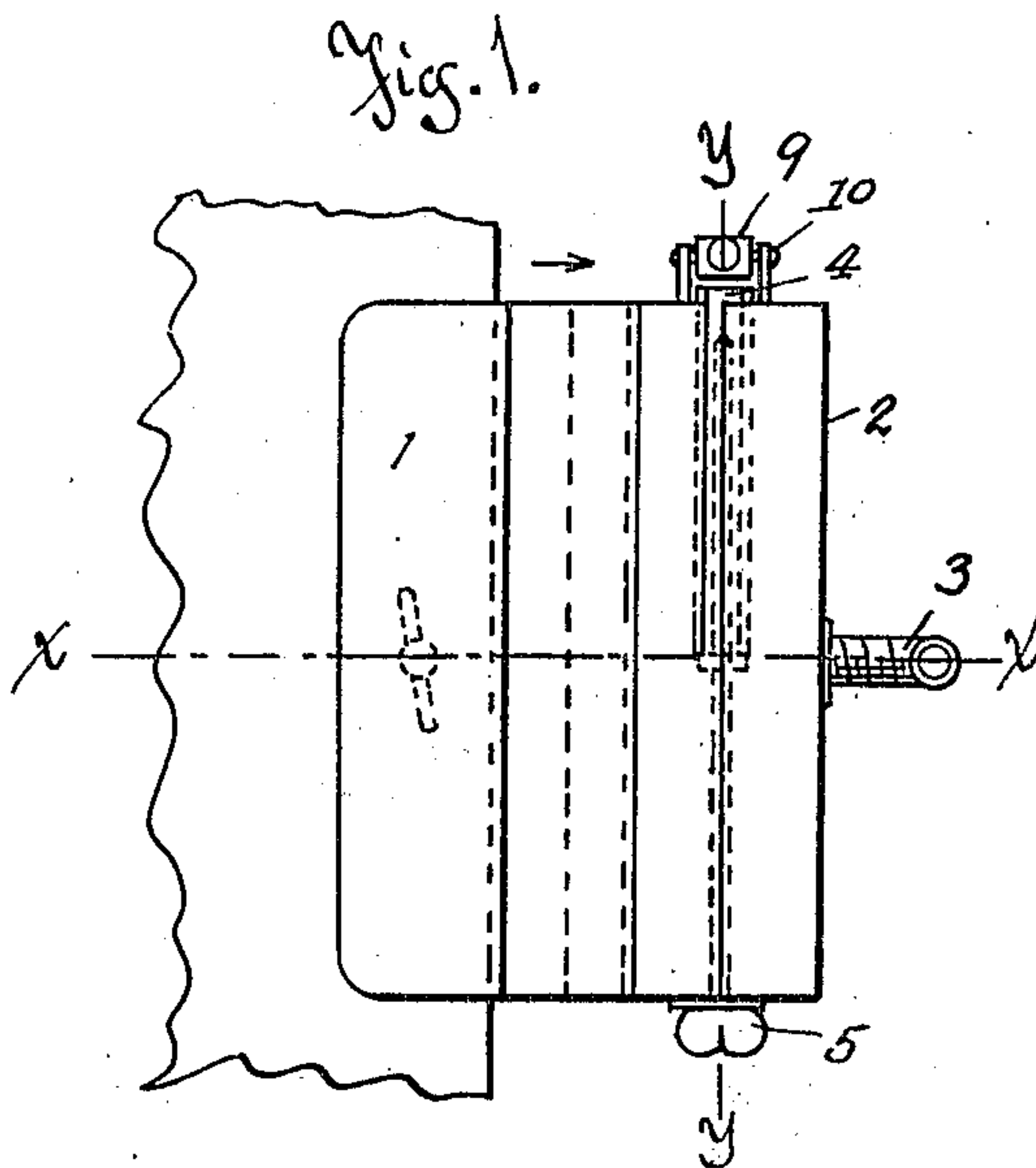
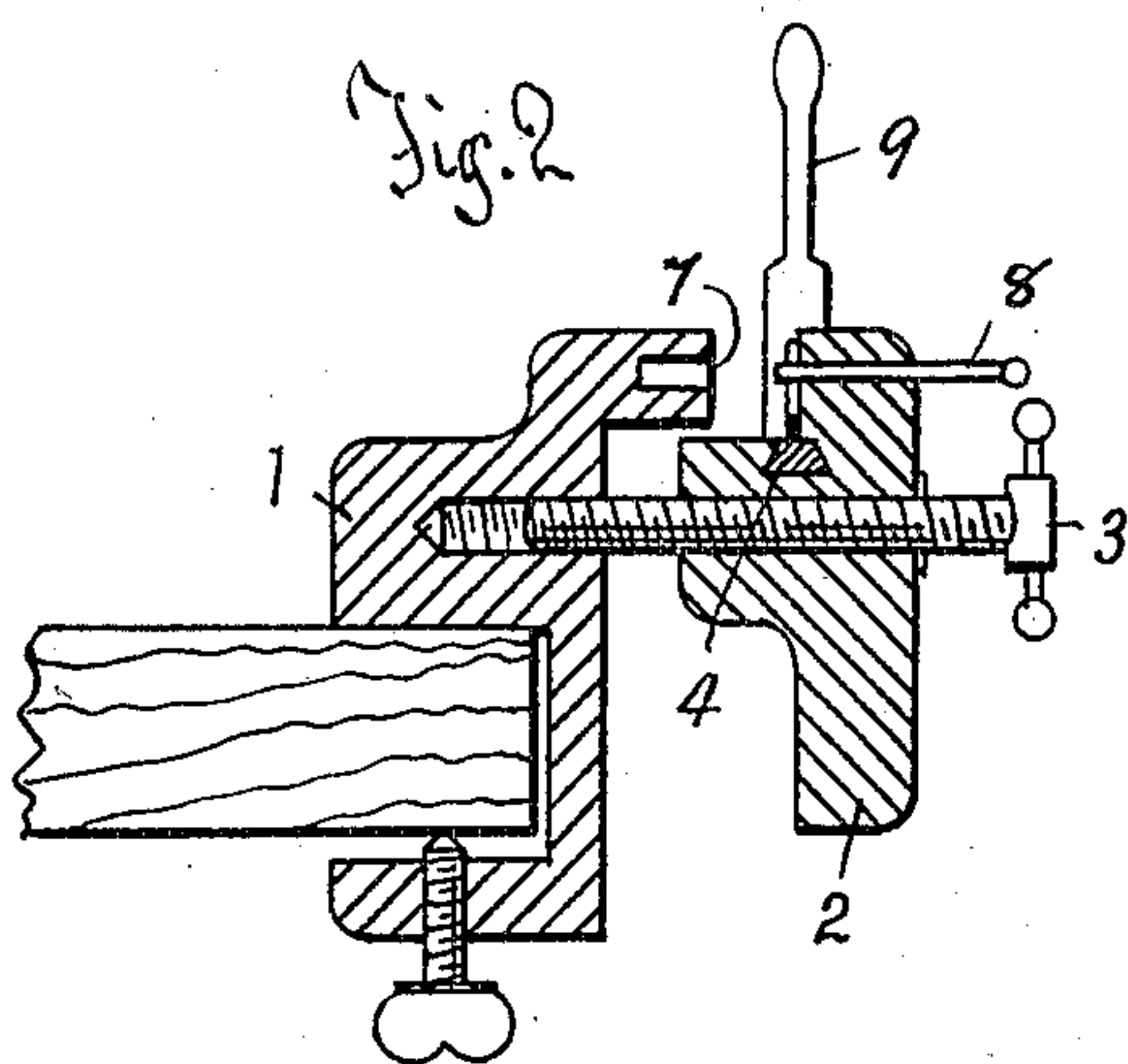


No. 837,527.

PATENTED DEC. 4, 1906.

E. T. WILLIAMS.  
NEEDLE HEADING VISE.  
APPLICATION FILED JULY 3, 1906.



Edward T. Williams,  
Inventor

Witnesses  
J. O. Kelly.  
J. J. Kline

By

Ed. J. Kelly  
Attorney

# UNITED STATES PATENT OFFICE.

EDWARD T. WILLIAMS, OF SHOEMAKERSVILLE, PENNSYLVANIA.

## NEEDLE-HEADING VISE.

No. 837,527.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed July 3, 1906. Serial No. 324,592.

*To all whom it may concern:*

Be it known that I, EDWARD T. WILLIAMS, a citizen of the United States, residing at Shoemakersville; in the county of Berks and State of Pennsylvania, have invented new and useful Improvements in Needle-Heading Vises, of which the following is a specification.

This invention relates to an improved device for heading or reheading knitting-machine needles.

The object of the device is to provide a simple means for bending the hook or point of a needle, and the machine is intended more particularly for operating on needles that have been used and in which the hook has been pulled open and become useless.

The device comprises a pair of clamping-jaws in the form of a vise for securely holding the body of a needle and a forging-lever for bending the hook on its point.

The device is simple in construction and is adapted to hold needles of varied sizes.

The invention is more fully described in the following specification and clearly illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of my vise. Fig. 2 is a sectional view on line X X of Fig. 1. Fig. 3 is a sectional view on line Y Y of Fig. 1.

The numeral 1 designates a stationary vise member, and 2 a movable member. The member 1 is provided with the usual means for securing it to a table or bench. The member 2 is provided with a hand-screw 3, passing through it and entering the member 1, by means of which the members are drawn together. The member 2 is provided with a longitudinally-movable adjustment-block 4, which block extends one-half the length of the jaw of said member and is engaged by a screw 5, which enters the jaw from the opposite end. By means of this screw the block is moved along in its guideway, in which it fits easily. Both jaw members are provided with a series of horizontal holes 7, the holes in the member 2 passing entirely through the jaw and those in the member 1 extending only partially therein from the inside. These holes are in alinement, and a removable pin 8 is placed therein to act as a stop for the needle-butt.

At the outer end of the block 4 is arranged a lever 9, secured thereto pivotally on a point

10. When closed, this lever stands in vertical position and in close proximity to the end of the block 4, between which and the inner wall of the lever the needle-hook is forged.

When it is desired to bend up the hook on the point of a needle, the needle is placed between the jaw members 1 and 2, with the point projecting slightly over the end of the block 4, and the pin 8 is then inserted in the hole 7 immediately back of the butt of the needle. If this needle-butt does not strike a point in line with one of these holes, the screw 5 is turned, moving the block 4 forward or backward until the pin does so engage the butt. The jaws are then brought together by turning the screw 3, thus tightly clamping the needle-body between them. The point of the needle will extend just sufficiently over the edge of the block 4 to permit its proper engagement by the inner wall of the lever 9. This lever is brought up into vertical position, thus bending or forging the hook on the point of the needle by contacting therewith.

The operation is simple and positive. Old needles which under ordinary circumstances are considered useless and are thrown away may be placed in my vise, as above described, and the hooks re-formed thereon, making substantially new needles of them. The operation is simple, and the saving of needles is of considerable importance.

Having thus fully described my invention and its operation, what I claim, and desire to secure by Letters Patent, is—

A device for bending the hooked points of knitting-needles, comprising a stationary jaw member, a horizontally-movable jaw member, a screw passing through said movable member and entering said stationary member, a longitudinally-adjustable block loosely fitted in said movable member, an adjusting-screw passing into said movable member from one side and engaging said block at its inner end, a forging-lever pivotally secured to said block at its outer end and adjustable means for engaging needles of varied lengths between said members.

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

EDWARD T. WILLIAMS.

Witnesses:

HOWARD SEIGER,  
D. G. GERBERICH.