

No. 658,710.

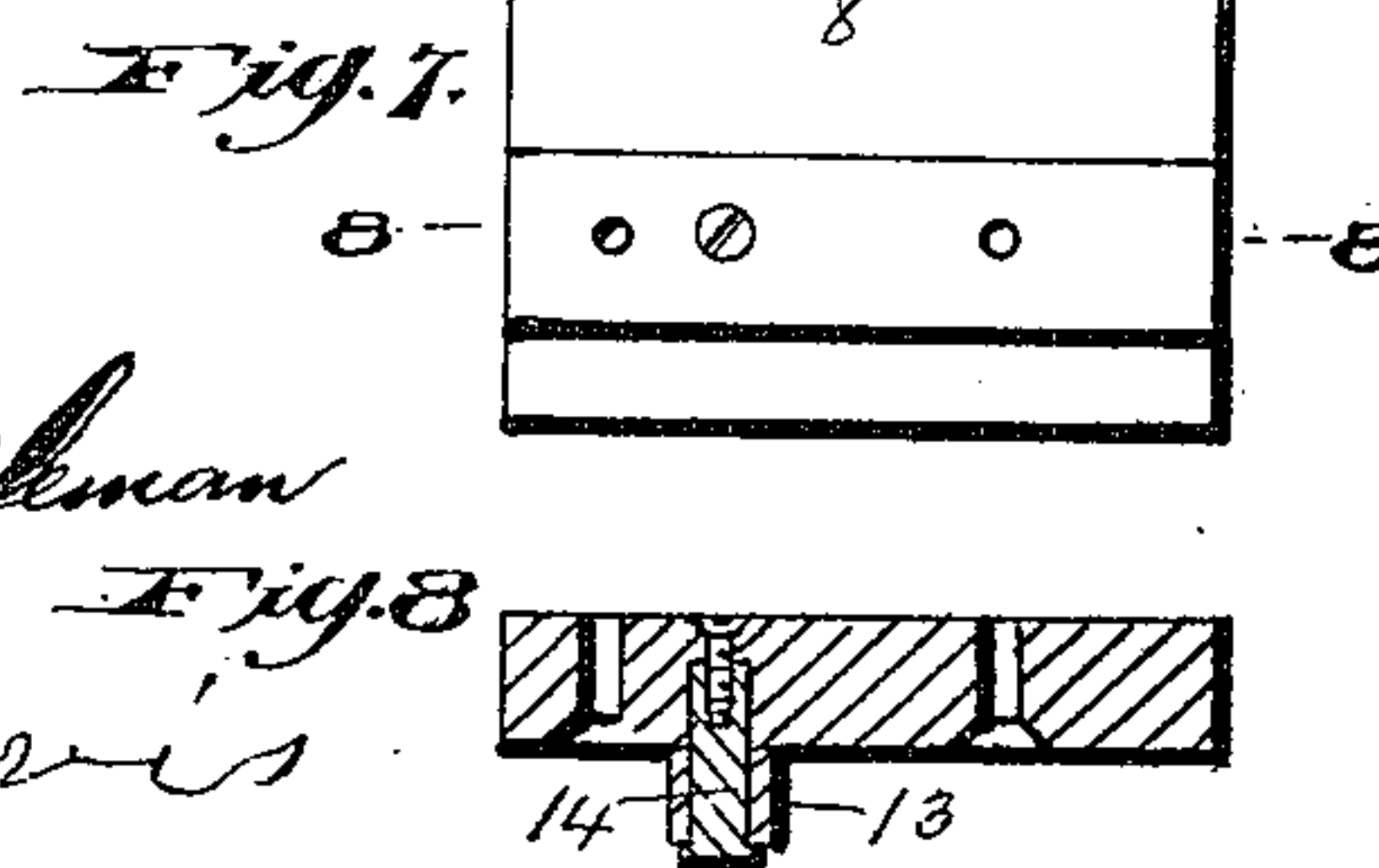
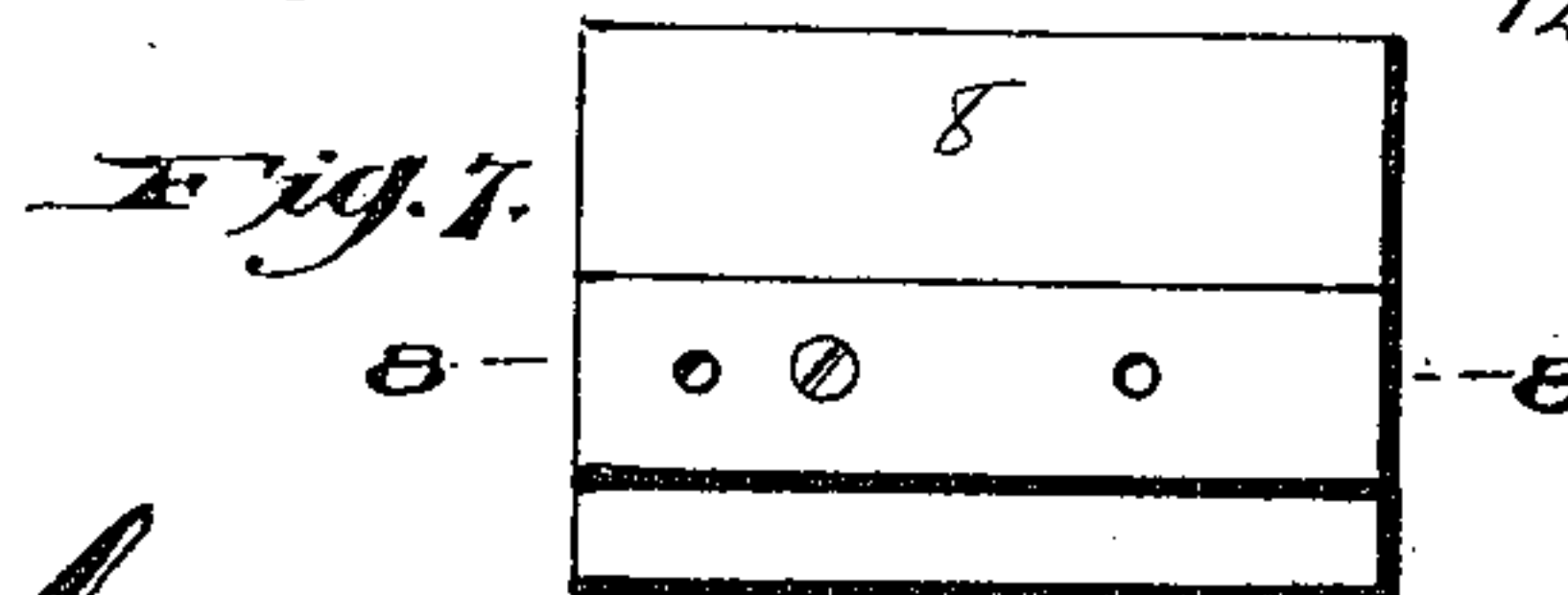
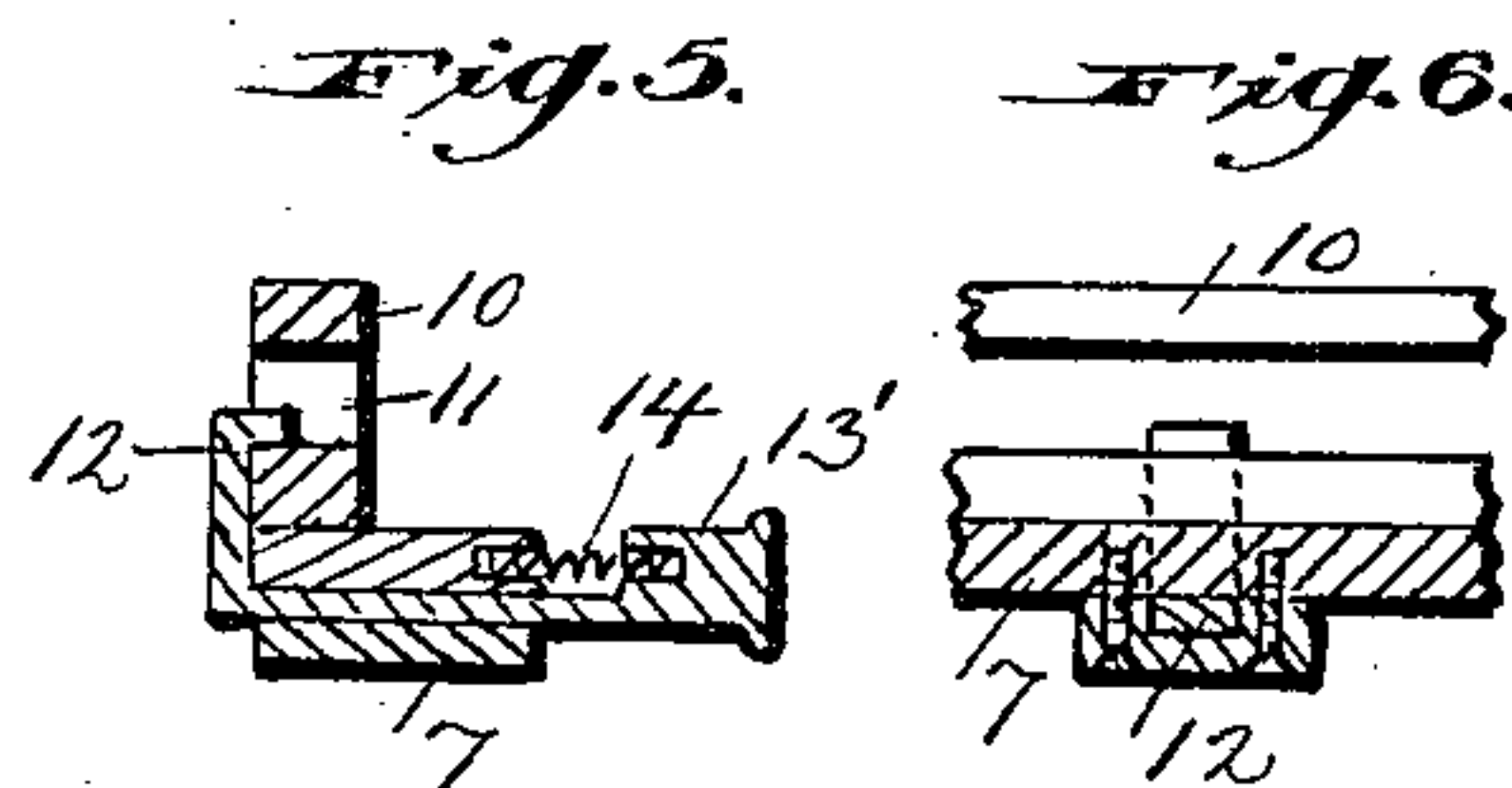
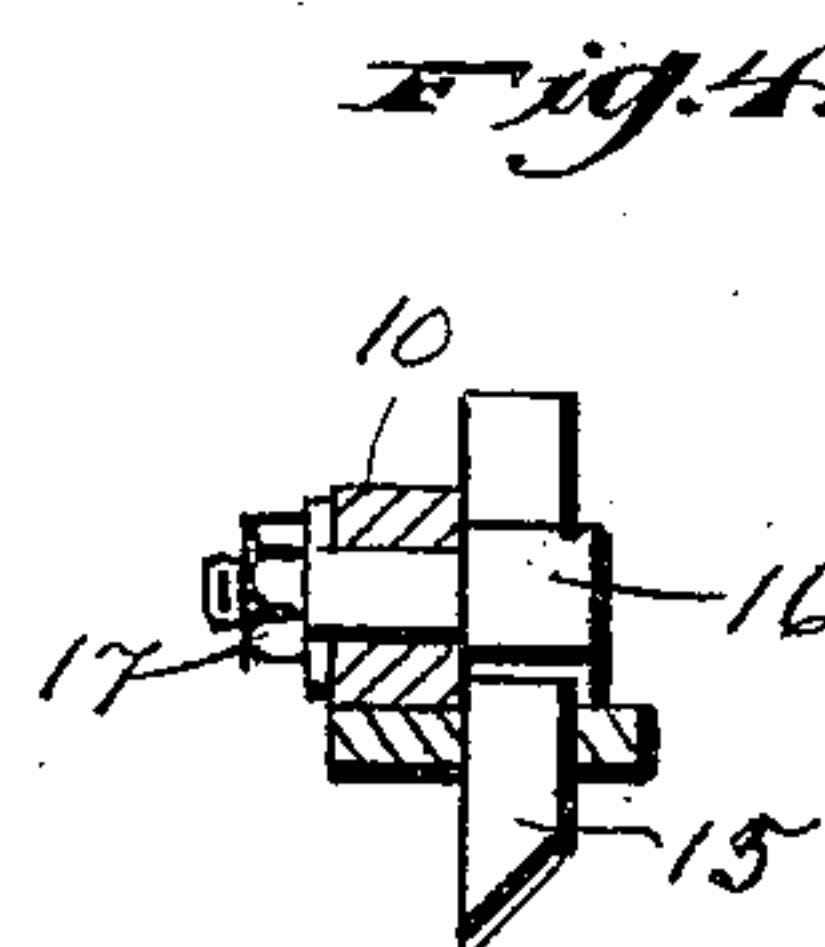
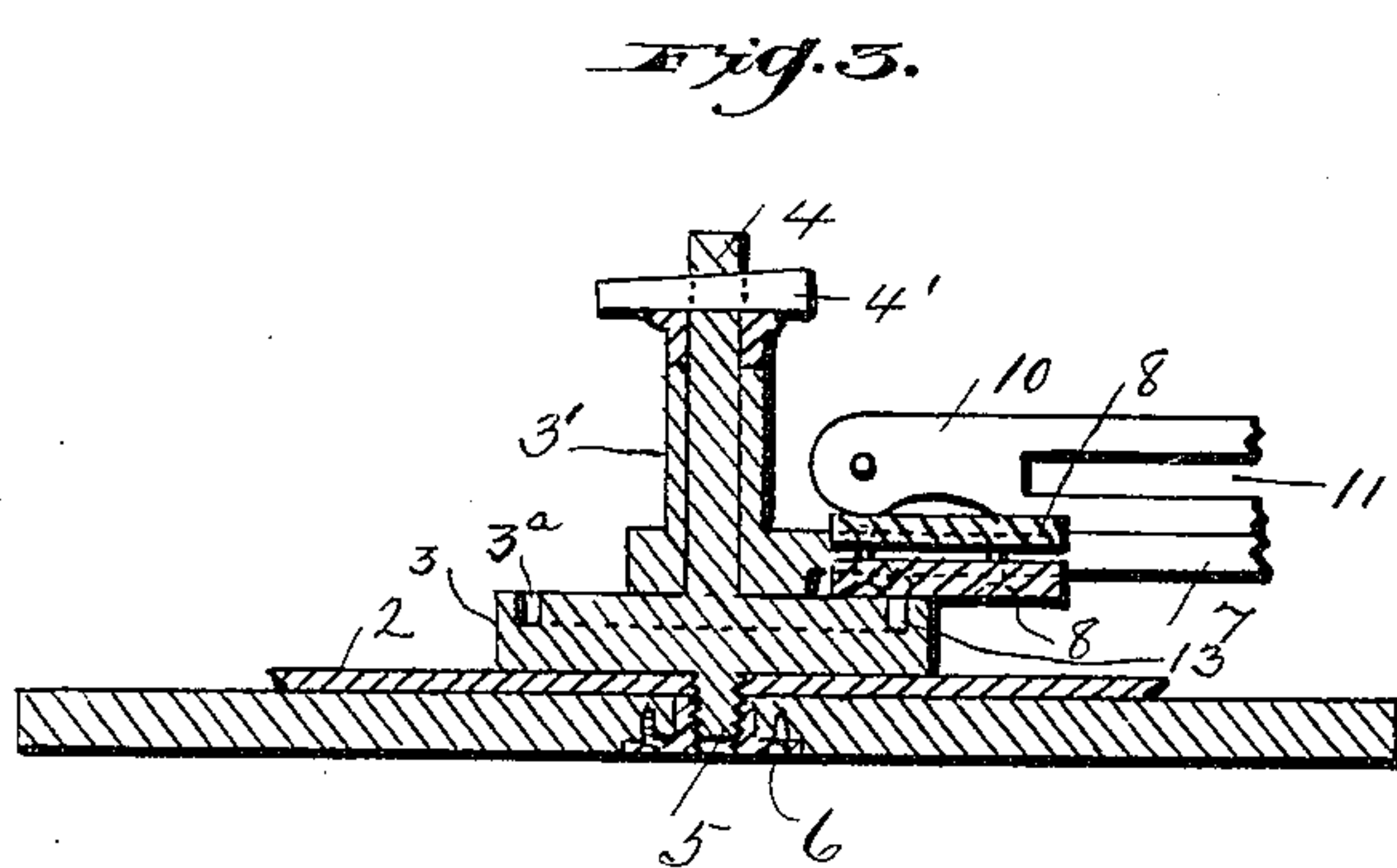
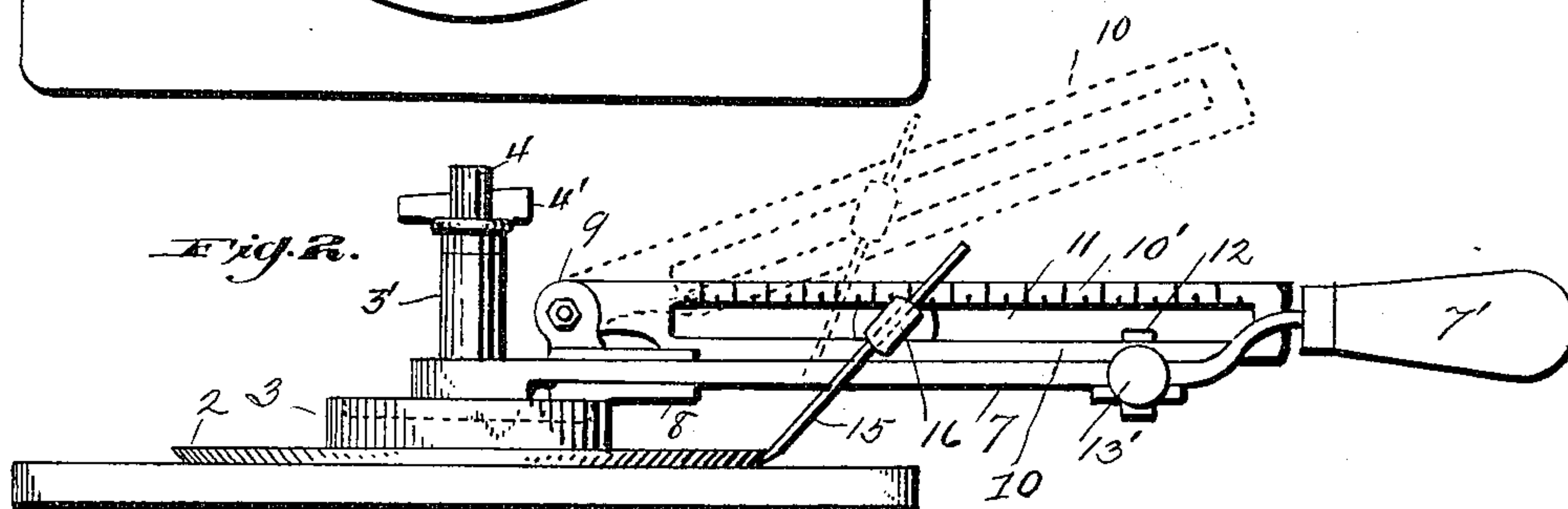
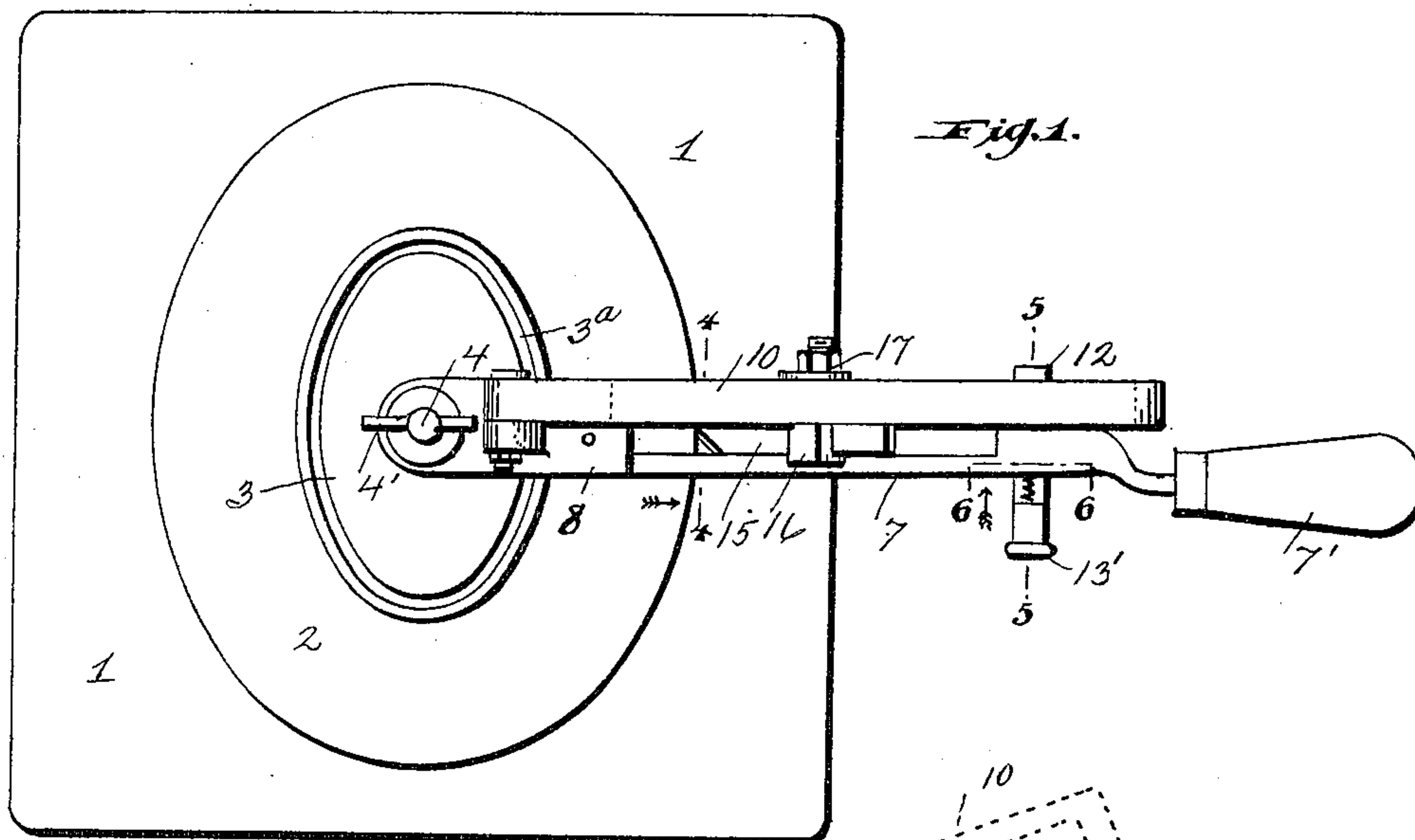
Patented Sept. 25, 1900.

W. H. FORKER.

APPARATUS FOR CUTTING OVALS FROM CARDBOARD.

(Application filed Mar. 6, 1900.)

(No Model.)



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. FORKER, OF MEADVILLE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO M. TORBETT FORKER, OF SAME PLACE.

## APPARATUS FOR CUTTING OVALS FROM CARDBOARD.

SPECIFICATION forming part of Letters Patent No. 658,710, dated September 25, 1900.

Application filed March 6, 1900. Serial No. 7,573. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. FORKER, a citizen of the United States of America, residing at Meadville, in the county of Crawford and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Cutting Ovals from Cardboard; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved apparatus for cutting ovals from cardboard and other material; and it consists in a means for clamping the board in position, a means for operating a knife in the form of an oval, a means for adjusting the said knife to form large and small ovals, together with the certain details of construction and combination of parts as will be fully described hereinafter.

In the accompanying drawings, Figure 1 is a plan view of my improved apparatus, which is constructed and arranged in accordance with my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a central sectional elevation of the device. Fig. 4 is a detailed sectional view taken on the line 4 4 of Fig. 1. Fig. 5 is a detailed sectional view taken on the line 5 5 of Fig. 1. Fig. 6 is a detailed front section taken on the line 6 6 of Fig. 1. Fig. 7 is a plan view of the slide carrying the roller for moving the knife toward and away from the center of the apparatus. Fig. 8 is a sectional view of the same taken on the line 8 8 of Fig. 7.

To put my invention into practice, I provide a base-board 1, having a threaded socket 6 secured in the bottom thereof, in which is screwed the threaded stud 5, carried by an oval base-piece 3. This base-piece 3 acts as the clamp for securing in position on the base-board 1 the blank of cardboard or like material 2 to be operated upon, and the base-piece carries on its upper face a vertically-arranged center post or shank 4, and also has arranged in said upper face near its edge an oval groove 3<sup>a</sup>. A sleeve 3' is mounted for rotation upon the center post or shank 4 and is held from vertical movement by means of a wedge-pin 4', which is inserted through the center post or shank near its upper end. This sleeve 3' has formed integral therewith a slot-

ted lever 7, carrying a handle 7', and connected to this lever 7 through the slot is a slide 8, fitted upon the under side with a pin 14, which carries a roller 13 to engage in the oval groove 3<sup>a</sup> of the base-piece. The upper part of this slide carries a lug 9, to which is hinged an arm 10, provided with an elongated slot 11 and a scale 10'. This slotted arm is locked to the lever 7 by the catch 12, that is mounted in the slot of the lever 7 and held in engagement by the spring 14 engaging said lever 7 and in a recess in the end 13' of the catch, as shown in Fig. 5 of the drawings. Mounted in the slot 11 of the arm 10 is a slide 16, capable of adjustment lengthwise of the arm 10, and is clamped at any desired position by means of the nut 17. A knife 15 is carried by this slide 16 and is adjustable in the slide to a vertical or inclined position, so as to cut the cardboard or other material in the desired manner.

In operation the oval base-piece 3 and its connected parts are removed from the base-board 1, the cardboard or other material to be operated upon is placed on the base-board 1, and the base 3 then replaced, so as to rest upon the cardboard or other material and clamp the same securely in position. The slide 16 is adjusted along the lever 10, so as to bring the knife 15 to the desired position and held by means of the nut 17. The knife 15 is adjusted to the proper inclined or vertical position, and the lever 7 is then moved around by means of its handle 7', and by reason of the pin 14 and its roller 13 traveling in the oval groove 3<sup>a</sup> the knife will be caused to travel in the form of an oval corresponding to the oval groove 3<sup>a</sup>, cutting the desired shape from the blank 2. The desired size of the oval may be readily obtained by adjusting the knife to the correct position, as determined by the scale 10' on the slotted arm 10. Of course it will be observed that the periphery of the shape cut will be either at an incline or perpendicular, according to the position in which the knife has been placed.

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

1. In a device of the character described, the combination with the base-board, of the



oval base-piece removably mounted on said base-board, said base-piece provided in its upper face with an oval groove, a centrally-arranged center post or shank formed integral with the upper face of said base-piece, a sleeve mounted to rotate on said center post or shank, a slotted lever formed integral with said sleeve, a slide adjustably connected to said slotted lever and carrying a pin having a roller to engage in the oval groove in the base-piece, a slotted arm connected to the slotted lever, a spring-catch for holding said arm in engagement with said lever, and a knife adjustably mounted in the slotted arm, substantially as shown and described.

2. The combination of the base-board having the threaded socket therein, the oval base-piece having a threaded stud to engage with said socket, said base-piece having an oval groove in its upper face, the center post or shank carried by said base-piece, the sleeve

rotatably mounted on said center post or shank, the wedge-pin engaging the center post or shank to secure the sleeve in position, the slotted lever connected to said sleeve and provided on its free end with a handle, the adjustable slide connected to said lever, the guiding means carried by said slide for engagement with the oval groove in the base-piece, the slotted arm hinged to said slide, means carried by said lever and engaging said arm to secure the lever and arm together, and the adjustable knife carried by said slotted arm, substantially as shown and described.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

WILLIAM H. FORKER.

Witnesses:

JAMES G. FOSTER,  
OTTO A. STOLZ.