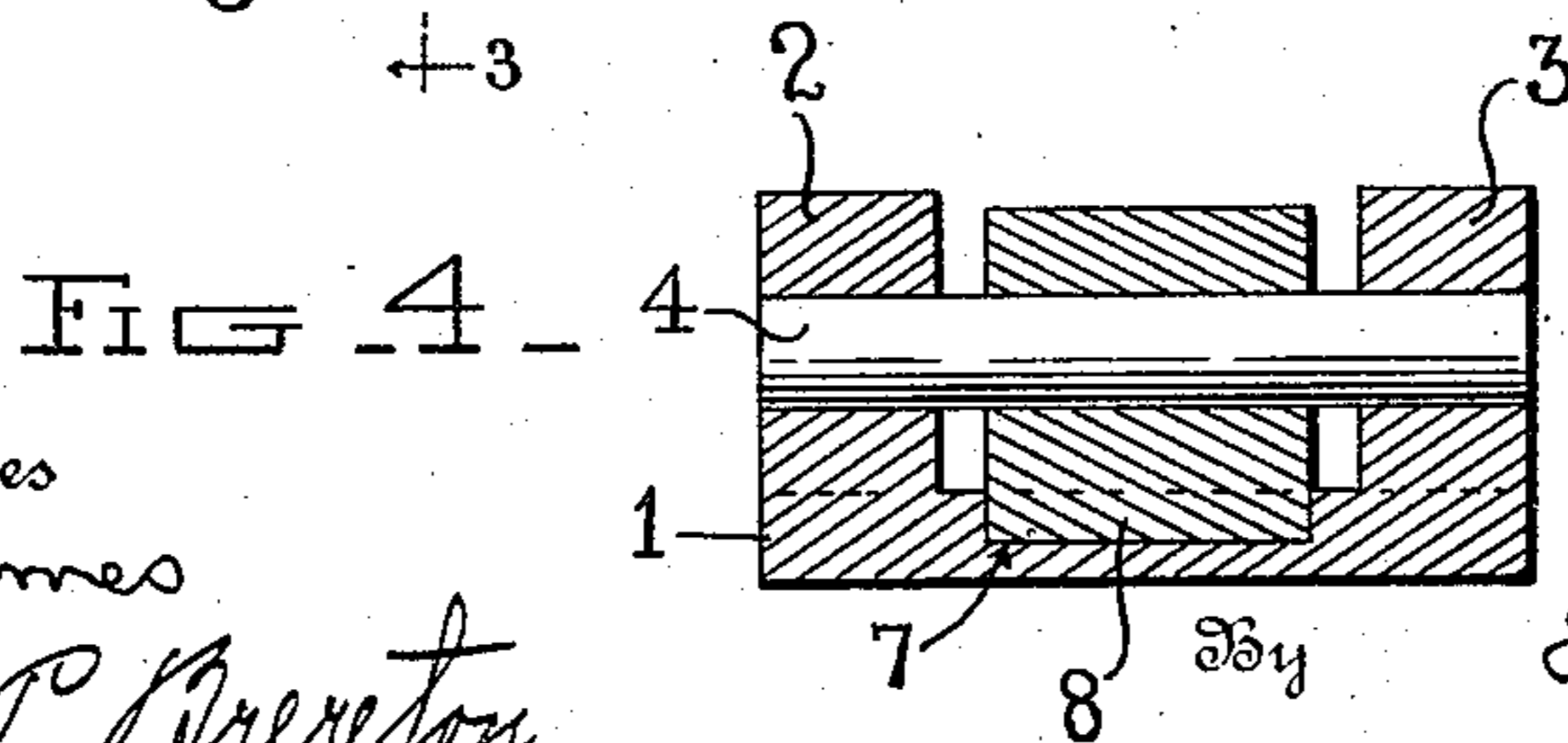
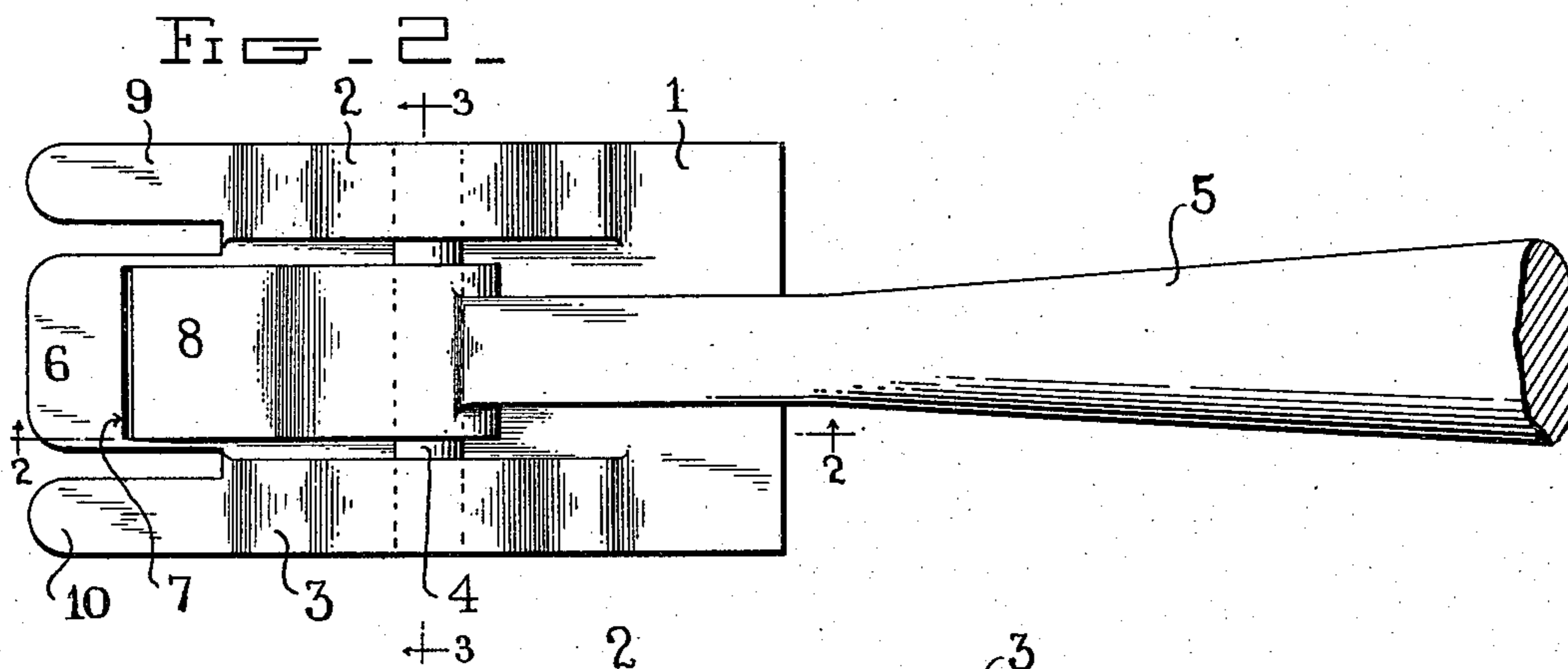
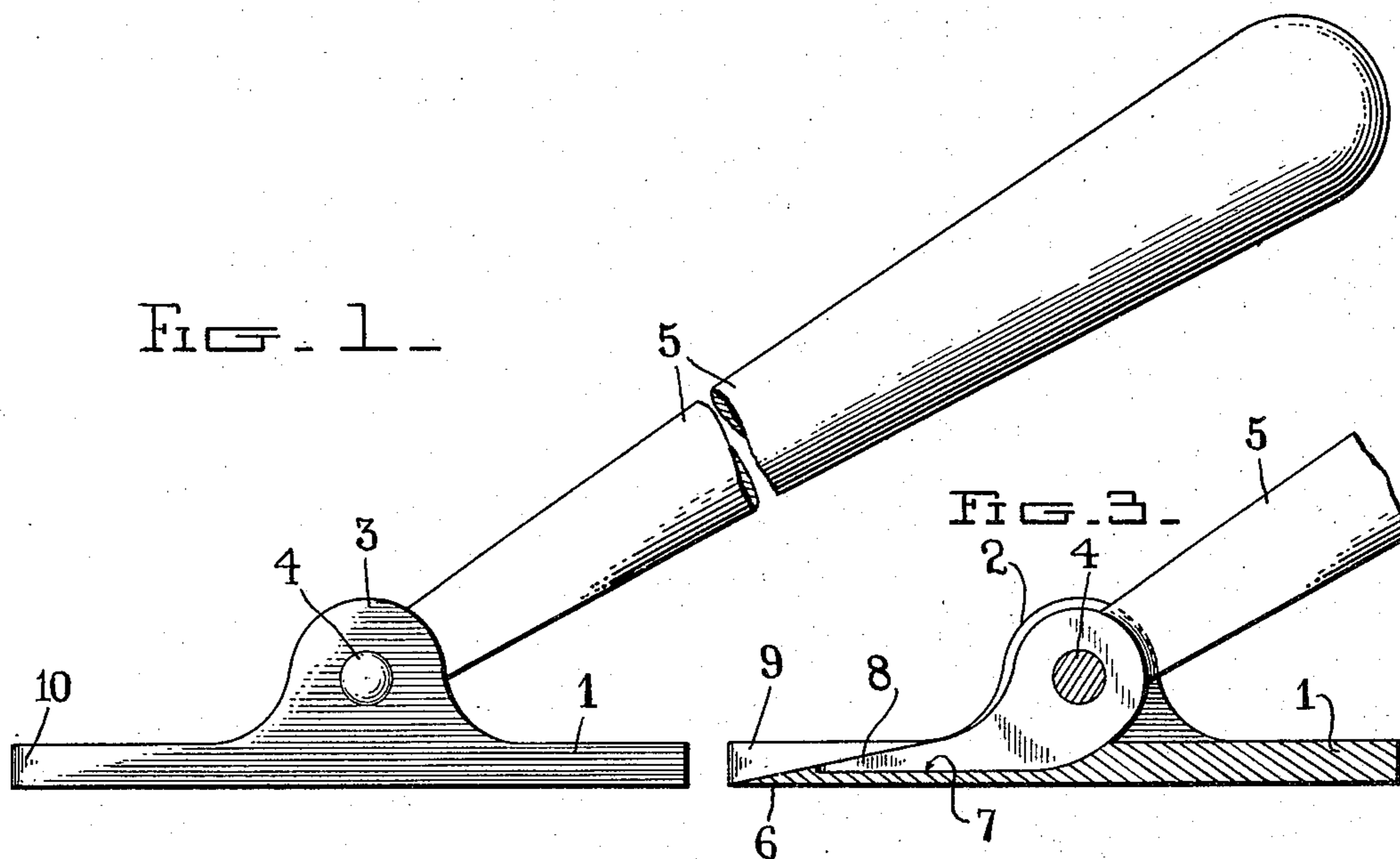


E. T. ALLAN.
STAPLE PULLER.
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1,166,419.

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STAPLE-PULLER.

1,166,419.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD T. ALLAN, a citizen of the United States, residing at Cincinnati, in the county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Staple-Pullers, of which the following is a description, reference being had to the accompanying drawing and to the figures of reference marked thereon.

My invention relates to new and useful improvements in staple pullers.

An object of the invention is to provide a staple puller which is particularly adapted for pulling staples from paper cases and in which means is provided for preventing clenched staples from tearing the paper case as it is being withdrawn.

Another object of the invention is to provide a simple, cheap and effective staple puller of this character, having certain details of structure and operation hereinafter more fully set forth.

In the accompanying drawings: Figure 1 is a side elevation of my improved staple puller; Fig. 2 is a top plan view; Fig. 3 is a longitudinal sectional view taken on the line 2—2 of Fig. 3; and Fig. 4 is a transverse sectional view taken on the line 3—3 of Fig. 2.

Referring now to the drawings, 1 represents an elongated rectangular shaped metal plate, having on each side vertically disposed oppositely arranged ears 2 and 3, in which is mounted the pivot 4 of the staple pulling lever 5. The forward end of the metal plate 1 is provided with a tongue 6 of a width approximately that of the staple to be pulled and has a recess 7 into which extends the pulling claw 8 of the lever 5. This claw 8 being placed within the recess 7 and flush with the upper edge thereof, it will be seen that when the lever 5 is forced under the staple, the staple is forced over the end of the pulling claw 8. Arranged on each side of the tongue 6 and spaced some distance therefrom are the forwardly extending members 9 and 10 which extend outwardly in alinement with the forward end of the tongue 6. The space between the tongue 6 and the forwardly extending members 9 and 10 is of a width substantially greater than the thickness of the metal of which the staple is made, so that the staple will pass between the same.

In box stapling, the staples are usually

turned upwardly and in order to prevent the clenched ends of the staples from pulling the paper outwardly with them, these members 9 and 10 extend over said clenched ends and hold the paper of the case downwardly and cause the staples to straighten as they are drawn upwardly by the claw 8. This pulling claw 8, as is readily seen, is forced upwardly after the tongue has been forced under the staple by the downward movement of the lever or handle 5, and thus the staple is readily withdrawn from the box or case without injury thereto.

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

1. A staple puller comprising a base, a tongue carried by one end of the base and having a recess in its upper face, and a lever pivoted to the base and having a forwardly extending claw within the recess.

2. A staple puller of the character described comprising an elongated base, a tongue at one end of the base and of a width less than that of the base and having a recess in its upper face, outwardly extending members carried by the base on each side of the tongue and spaced therefrom, and a lever pivoted to the base in rear of the tongue, and having a forwardly extending claw within the recess in the base.

3. A staple puller of the character described comprising a flat base, a tongue carried by one end of the base, a lever pivoted to the base and having a forwardly extending claw above the tongue, and outwardly extending members carried by the base and extending parallel with the tongue and spaced therefrom.

4. A staple puller of the character described comprising an elongated base, a tongue carried by one end of the base and of a width less than that of the base and having a recess in its upper face, outwardly extending members carried by the end of the base on each side of the tongue and spaced therefrom, upwardly extending ears carried by the base in rear of the tongue, and a lever pivoted between the ears and having a forwardly extending claw within the recess in the tongue.

5. A staple puller of the character described comprising a base, a tongue carried by one end of the base, a staple pulling member carried by the base, and outwardly extending members carried by the base and

extending parallel with the tongue and spaced therefrom, for the purpose described.

6. A staple puller of the character described, comprising a base, a tongue carried
5 by one end of the base, a staple pulling member carried by the base and extending over the tongue, and outwardly extending members carried by the base and extending par-

allel with the tongue and spaced therefrom, for the purpose described.

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

EDWARD THOMAS ALLAN.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."