

No. 897,071.

PATENTED AUG. 25, 1908.

G. EBENHOCH.

WRENCH.

APPLICATION FILED FEB. 7, 1908.

Fig. 1.

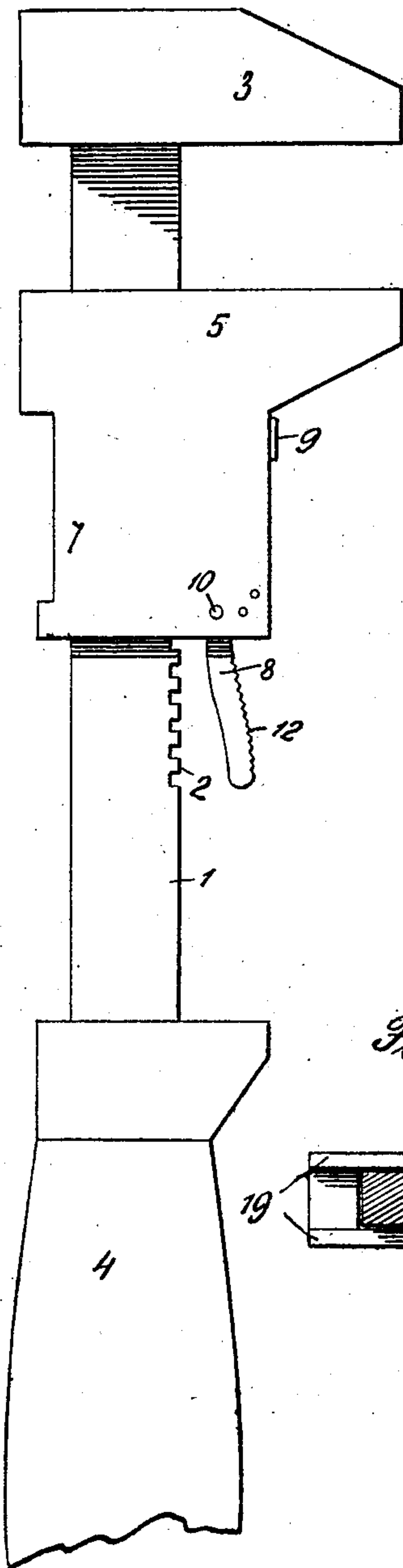


Fig. 2.

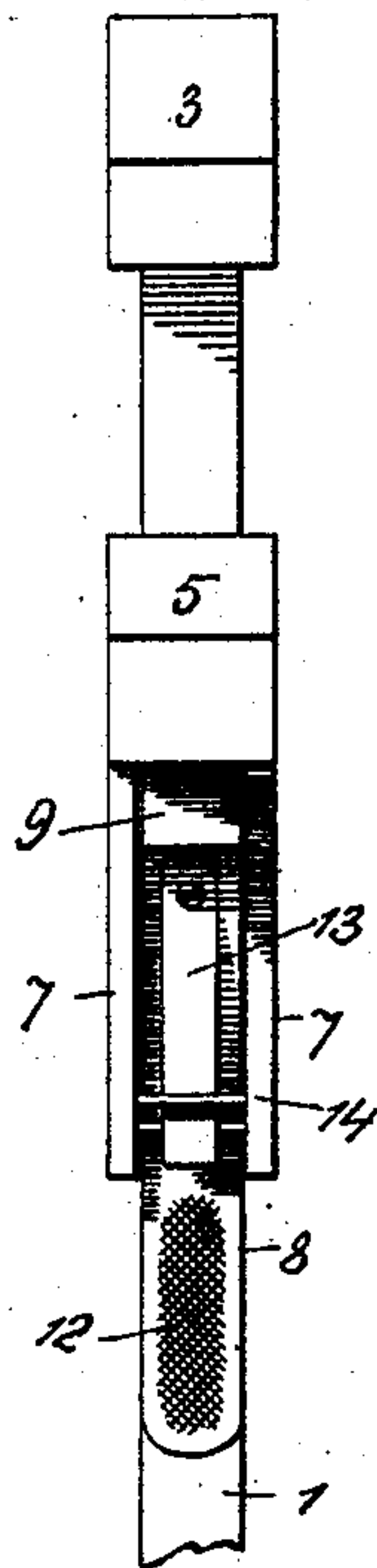


Fig. 3.

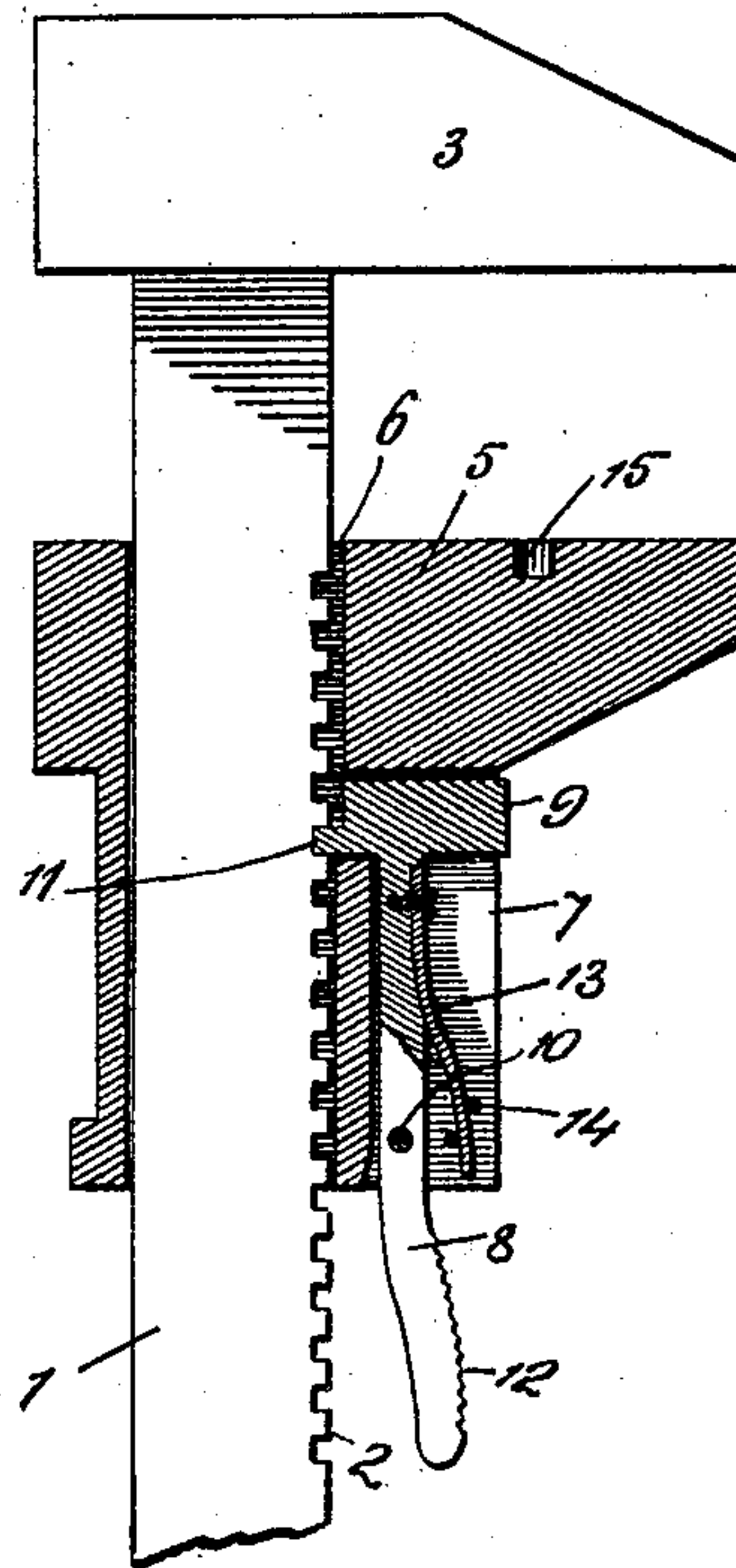
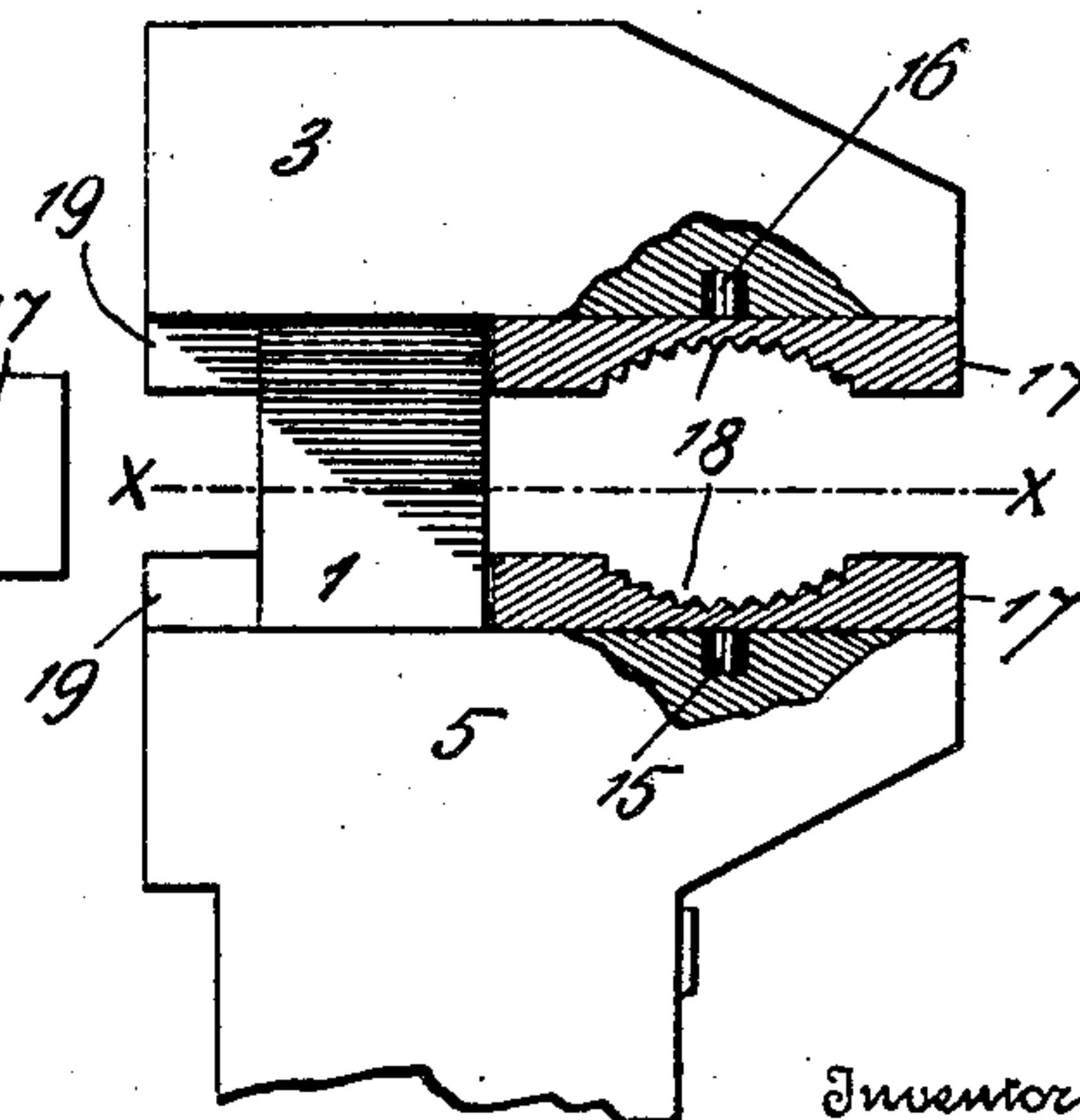
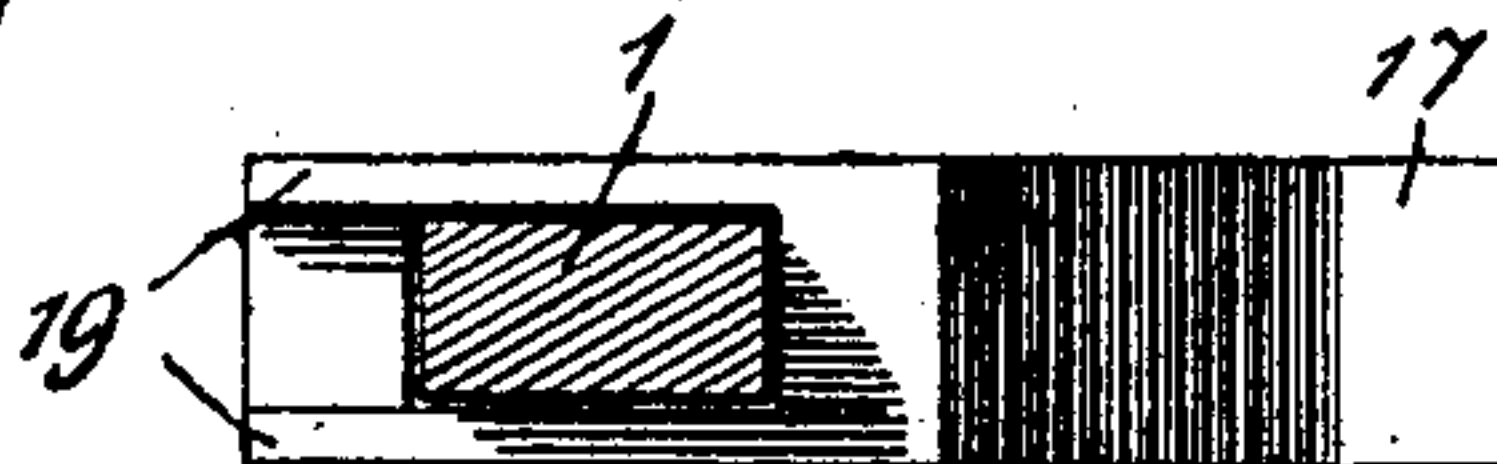


Fig. 4.

Fig. 5.



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Witnesses

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UNITED STATES PATENT OFFICE.

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WRENCH.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEBHARD EBENHOCH, citizen of the United States of America, residing at Belle Vernon, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to a wrench, and the objects of the invention are first, to provide a combined pipe and "monkey" wrench; second, to provide a wrench that can be easily and quickly adjusted; third, to dis-
15 pense with the use of screw threads and a nut for adjusting the movable jaw of a wrench, and fourth, to provide a simple, inexpensive and durable wrench. I attain these objects by a construction that will be
20 presently described and then specifically pointed out in the appended claims.

Referring to the drawings forming a part of this specification, Figure 1 is an elevation of my wrench, the handle thereof being
25 partly broken away, Fig. 2 is an edge view of the same, Fig. 3 is an elevation of a portion of the wrench, illustrating the movable jaw thereof in section. Fig. 4 is an elevation of a portion of a wrench, illustrating the jaw
30 attachments, and Fig. 5 is a horizontal sectional view taken on the line $x-x$ of Fig. 4.

In the accompanying drawings, 1 designates the shank having a toothed edge 2, a fixed jaw 3 and a handle 4. Upon the shank
35 1 is slidably mounted a movable jaw 5, this jaw being provided with a vertical opening 6 for the reception of the shank 1, also with a recess 7 for a lever 8 and a block 9 employed for locking the movable jaw 5 in
40 a fixed position with relation to the shank 1.

The lever 8 is pivotally mounted in the recess 7 of the jaw 5 by a pin 10, and this lever is formed integral with the block 9, which is provided with a tooth 11 for engag-
45 ing in the toothed edge 2 of the shank 1. The lever 8 is also provided with a serrated surface 12, whereby said lever can be easily gripped and braced for moving the block 9

outwardly from the shank 1, and disengage the tooth 11 to permit of the adjustment of
50 the movable jaw. For normally retaining the toothed block 9 in engagement with the shank 1 I secure a flat spring 13 to the lever 12, adjacent to the block 9, this spring being held between two pins 14 arranged trans-
55 versely of the recess 7.

The jaws 3 and 5 as illustrated in Figs. 1 to 3 inclusive are adapted for gripping flat surfaces, but in order that these jaws can be used upon cylindrical surfaces, I provide
60 said jaws with oppositely arranged sockets 15 to receive pins 16, carried by a jaw attachment 17, these attachments having confronting serrated or toothed concavities 18. To prevent the jaw attachment 17 from ro-
65 tating upon the jaws 3 and 5, I provide the jaw attachments with bifurcated ends 19 for embracing the shank 1.

Having now described my invention what I claim as new, is:—

70 In a wrench, a toothed shank provided on its outer end with a rigid jaw, a movable jaw slidably-mounted on said shank and provided with a recess in the edge opposite the teeth on said shank and having an opening
75 at the inner end of said recess communicating with the opening which receives the wrench shank, a lever pivotally-mounted in said recess having one end projecting out-
80 wardly along the wrench shank to form a handle and having a block on its inner end projecting into said opening at the inner end of the recess and provided on its inner end with a tooth to engage the teeth on the
85 wrench shank, a spring secured to said lever within the recess, and a pair of pins carried by the movable jaw and extending transversely across the recess in said jaw and between which the said spring is held.

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

GEBHARD EBENHOCH.

Witnesses:

LEVI J. JEFFRIES,
G. W. MARTIN.