

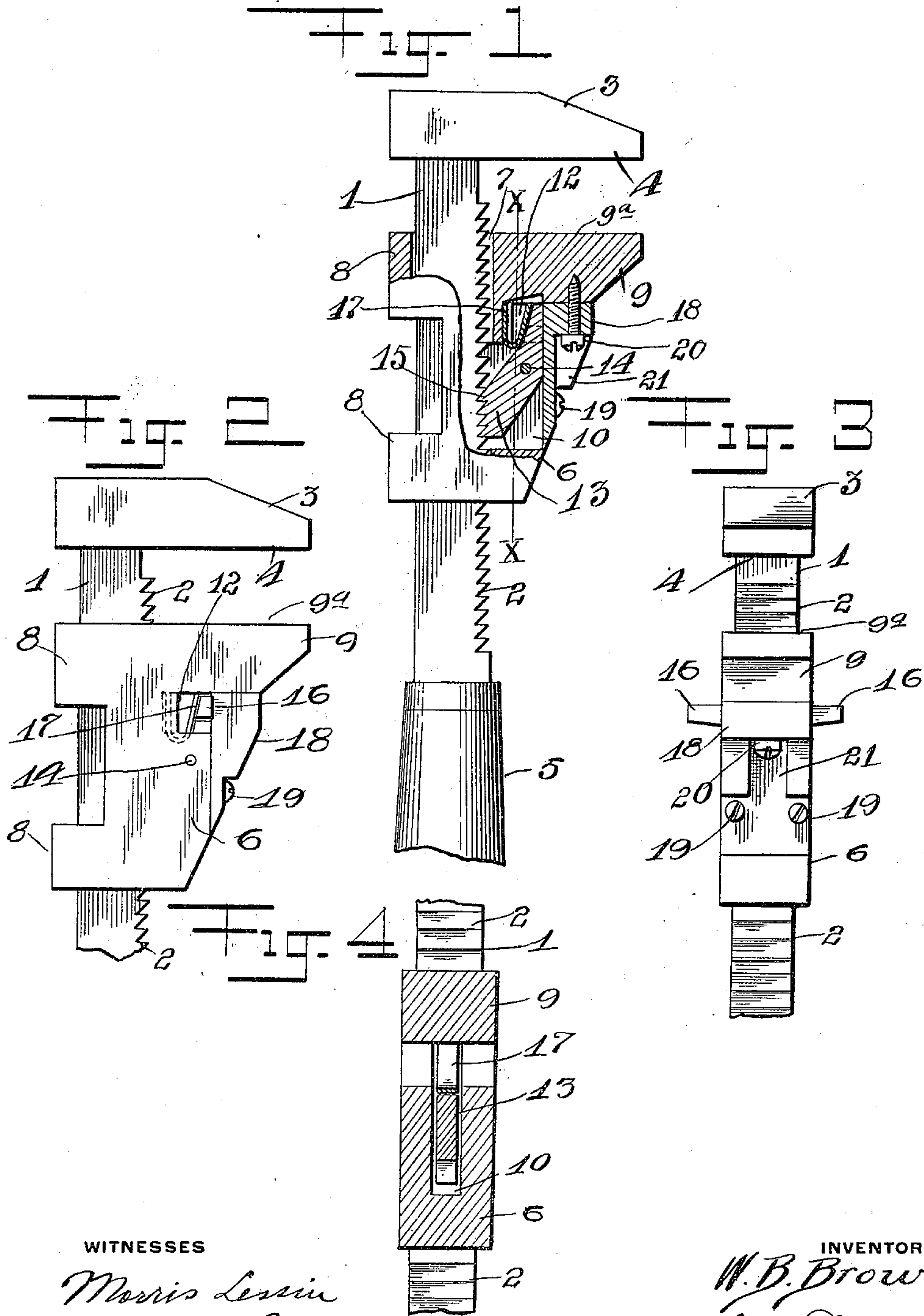
W. B. BROWN.

WRENCH.

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962,304.

Patented June 21, 1910.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM B. BROWN, OF PITTSBURG, PENNSYLVANIA.

WRENCH.

962,304.

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To all whom it may concern:

Be it known that I, WILLIAM B. BROWN, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny 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 wrenches, and the objects of my invention are, first, to provide a quick acting monkey wrench wherein positive and reliable means are employed for locking the adjustable jaw thereof in a
15 fixed position; second, to furnish a wrench with a locking device that can be easily and quickly manipulated, third, to provide a wrench consisting of comparatively few parts easily assembled and maintained in
20 an operable condition, and fourth, to accomplish the above objects by a wrench that is simple, durable, inexpensive to manufacture and highly efficient for the purposes for which it is intended.

25 I attain the above objects by a mechanical construction that will be hereinafter specifically described and then claimed, and reference will now be had to the drawing forming a part of this specification, wherein
30 there is illustrated a preferred embodiment of the invention, but it is to be understood that the structural elements thereof can be varied or changed, as to the size, shape and manner of assemblage without departing
35 from the scope of the appended claim.

40 In the drawing:—Figure 1 is a side elevation, partly broken away and partly in section, Fig. 2 is a side elevation of a portion of the wrench, Fig. 3 is a front elevation of the same, and Fig. 4 is a vertical sectional view of the wrench taken on the line X—X of Fig. 1.

45 In the accompanying drawing the reference numeral 1 denotes a shank rectangular in cross section and having the front side thereof provided with teeth 2.

50 3 denotes a fixed jaw carried by the upper end of the shank 1 and having a gripping surface 4, while 5 denotes a handle detachably mounted upon the lower end of the shank 1.

55 6 denotes an adjustable jaw slidably mounted upon the shank 1, said jaw being provided with a vertical opening 7 adapted to receive the shank and straps 8 adapted to

embrace the shank and retain the jaw in engagement therewith. The jaw 6 is provided with an extension 9 having a gripping surface 9^a adapted to cooperate with the gripping surface 4 of the fixed jaw 3 in
60 clamping a nut or similar object, and the front side of the jaw 6 is provided with a recess 10 communicating with the opening 7. The upper wall of the recess 10 is cut away to form a pocket 11 and said jaw is
65 provided with transverse openings 12 communicating with the sides of said pocket.

13 denotes a pawl pivotally mounted in the recess 10 by a pin 14. The lower end of the pawl 13 is provided with teeth 15
70 adapted to engage the teeth 2 of the shank 1, and the upper end of the pawl 13 is adapted to extend into the pocket 11, where said pawl is provided with outwardly extending
75 arms 16 extending through the openings 12 of the jaw 6.

17 denotes a U-shaped spring arranged within the pocket 11 and having one end thereof bearing against the rear face of the pocket, while the opposite end of said spring
80 bears against the forward face of the pawl 13, normally retaining said pawl in engagement with the shank 1.

18 denotes a filler block arranged upon the front side of the jaw 6 under the extension
85 9 thereof, said filler block being secured to the jaw 6 by screws or other fastening means 19 and to the extension 9 by a screw 20 or other fastening means, said filler block being cut away, as at 21 to provide clearance for
90 the screw 20. The filler block 18 is adapted to close the forward end of the recess 10 and the pocket 11, besides closing the front side of the openings 12. This filler block permits of the pawl 13 and the spring 17 being
95 easily assembled within the jaw 6.

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

A wrench embodying a shank having the front side thereof provided with teeth, a
100 fixed jaw carried by the upper end of said shank, a handle carried by the lower end of said shank, a jaw adapted to slide upon said shank, straps carried by said jaw and embracing said shank, said jaw having a recess
105 formed therein, the upper wall of said recess having a pocket formed therein, and said jaw having openings in the sides thereof communicating with said pocket, a pawl pivotally mounted in said recess and having the
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lower end thereof toothed to engage said toothed shank, a U-shaped spring arranged in said pocket and adapted to bear against said pawl and normally hold said pawl in
5 engagement with said shank, outwardly extending arms carried by the upper end of said pawl and adapted to extend through the openings of said jaw to facilitate a movement of said pawl, and a filler block secured

to said jaw and adapted to close the front 10 side of said recess, pocket and openings.

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

WILLIAM B. BROWN.

Witnesses:

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C. T. HOOD.