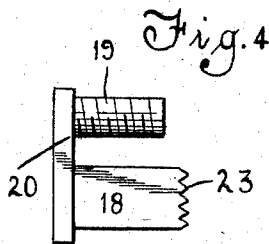


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UNITED STATES PATENT OFFICE.

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WRENCH.

967,062.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DWIGHT MOODY RUSSELL, a citizen of the United States of America, residing at Bulger, in the county of Washington 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.

This invention relates to wrenches, and the objects of my invention are to provide the movable jaw of a wrench with positive and reliable means whereby it can be easily and quickly adjusted, and to provide a wrench that is simple in construction, strong, durable and highly efficient for the purposes for which it is intended. These and such other objects as may hereinafter appear are attained by the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed, and reference will now be had to the drawing forming a part of this specification, wherein 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 without departing from the scope of the appended claim.

In the drawing:—Figure 1 is a side elevation of a wrench, partly broken away and partly in section, showing the movable jaw thereof locked in engagement with the shank of the wrench, Fig. 2 is a similar view showing the movable jaw released, Fig. 3 is a cross sectional view through the movable jaw taken on the line X—X of Fig. 1, and Fig. 4 is an elevation of a detached locking member adapted to form part of the movable jaw.

In the accompanying drawing the reference numeral 1 denotes a shank, rectangular in cross section and having the inner end thereof reduced to provide a handle 2, while fixed to or formed integral with the outer end of said shank is a stationary gripping jaw 3 having a gripping surface 4 extending from the front side of the shank 1. The stationary jaw 3 is of a greater width than the shank 1 whereby it will extend over the sides of the shank and provide shoulders 5. The front side of the shank is provided with a longitudinal groove 6 and the material bordering upon the rear side of this groove is milled to provide transverse V-shaped teeth 7 throughout the length of said groove.

Slidably mounted upon the shank 1 is a movable jaw corresponding in width to the stationary jaw 3. The movable jaw is designated 8 and is provided with a gripping surface 9 which confronts and coöperates with the gripping surface 4 of the stationary jaw 3. The gripping jaw 8 is provided with an opening 10 to clear the shank 1 and is also provided with a casing, comprising side walls 11, a front wall 12, a rear wall 13 and an inner plate 14. The inner plate 14 is provided with an opening 15 to clear the shank 1 and the front wall 12 with two openings 16 and 17, the former providing clearance for a gripping member 18 and the latter clearance for a screw 19. The locking member 18 and the screw 19 have the outer ends thereof connected to a plate 20, and rotatably mounted upon the screw 19 is a knurled nut 21. The side walls 11 are provided with openings 22 to clear the nut 21, and the walls of said openings retain the nut 21 within the casing of the movable jaw, whereby the nut can be rotated to move the screw 19 and adjust the locking member 18. The inner end of the locking member 18 is provided with transverse teeth 23 adapted to engage the teeth 7 of the shank 1. By simply rotating the nut 21 the locking member 18 can be moved into and out of engagement with the shank 1 and the jaw easily adjusted relatively to the stationary jaw 3.

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 fixed jaw carried by the outer end of said shank, an adjustable jaw slidably mounted upon said shank, a casing carried by said jaw and provided with a transverse opening, a locking member movably mounted in said casing to engage said shank, a screw also mounted in said casing and extending into said transverse opening, a plate connecting the outer ends of said screw and said locking member, and a nut rotatably mounted on said screw within the transverse opening in said casing and held against longitudinal movement by the side walls of said opening.

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

DWIGHT MOODY RUSSELL.

Witnesses:

J. L. STEPHANY,
KARL H. BUTLER.