

J. KOVACS.
WRENCH.
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1,015,194.

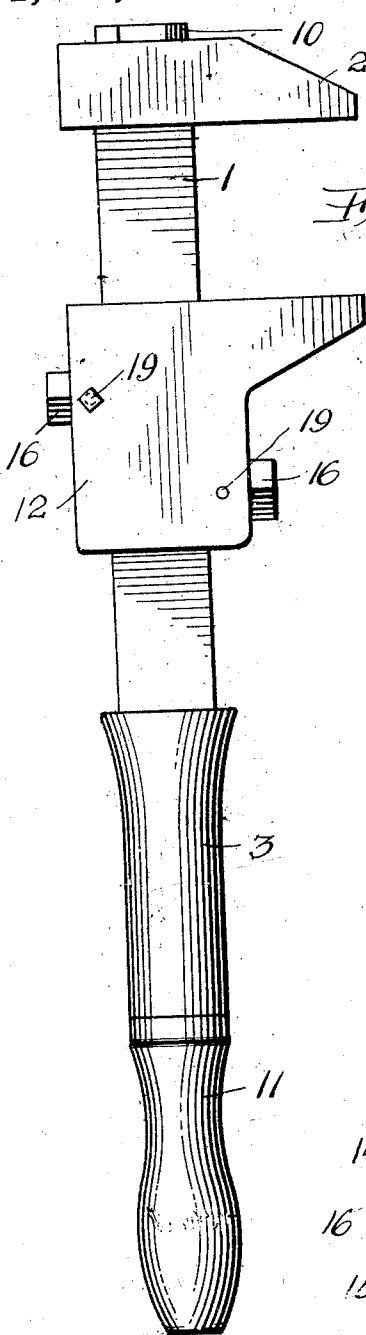


Fig. 1.

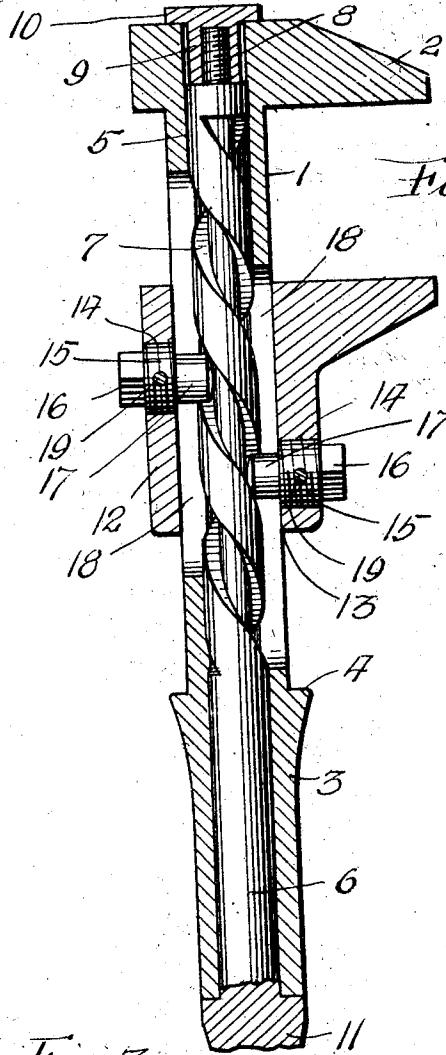


Fig. 2.

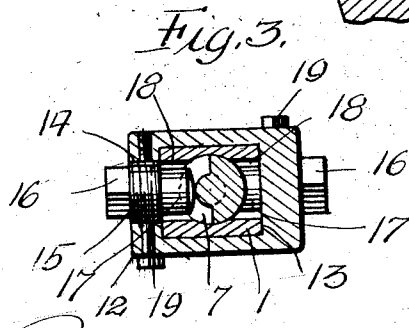


Fig. 3.

WITNESSES

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JOSEF KOVACS, OF MOUNT CARMEL, PENNSYLVANIA.

WRENCH.

1,015,194.

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To all whom it may concern:

Be it known that I, JOSEF KOVACS, a subject of the King of Hungary, residing at Mount Carmel, in the county of Northumberland 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 primary object of my invention is to provide an adjustable nut wrench that can be easily and quickly manipulated to place the adjustable jaw of the wrench at a desired
15 position upon the shank relatively to the fixed jaw thereof, this operation being accomplished by a mechanism that is concealed within the shank and the adjustable jaw thereof.

20 A further object of this invention is to provide a quick acting nut wrench that is simple in construction, durable 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, wherein:—

30 Figure 1 is a side elevation of the wrench, Fig. 2 is a vertical sectional view of the same partly broken away, and Fig. 3 is a horizontal sectional view of the wrench.

A wrench in accordance with this invention comprises a shank 1 rectangular in cross section and having the outer end thereof provided with a fixed jaw 2. The inner end of the shank terminates in a cylindrical handle 3 that presents a shoulder 4
40 to limit the movement of the adjustable jaw of the wrench. The shank 1 is provided with a longitudinal cylindrical bore 5 extending from one end thereof to the opposite end. Rotatably mounted in the bore 5 is a
45 rod 6 having a spiral groove 7 for a part of its length. The outer end of the rod 6 is reduced to provide a screw threaded stem 8 and mounted upon said stem is a nut 9 having a head 10 engaging the outer side of the
50 jaw 2. The inner end of the rod 6 has a hand piece 11 engaging the end of the handle 3. The hand piece 11 coöperates

with the head 10 of the nut 9 in retaining the rod 6 within the shank 1.

Slidably mounted upon the shank 1 is an adjustable jaw 12 having a vertical opening 13 providing clearance for said shank. The jaw 12 coöperates with the jaw 2 in gripping a nut or the flat faces of an object. The front and rear sides of the adjustable jaw are provided with openings 14 having the walls thereof screw threaded and mounted in said openings are plugs 15 having the outer ends thereof provided with nuts 16 and the inner ends with pins 17. The pins 17 extend through longitudinal slots 18 provided therefor in the shank 1, said pins engaging in the spiral groove 7 of the rod 6. The plugs 15 are prevented from rotating within the openings 14 by transverse pins 19 or screws 19 extending transversely of the adjustable jaw 12 and through the plugs 15.

By rotating the hand piece 11, the rod 6 is rotated within the shank 1 and through the medium of the pins 17, the adjustable jaw 12 is moved upon the shank 1.

From the foregoing it will be observed that the parts of the wrench can be easily and quickly assembled and that the adjusting mechanism is protected and not liable to injury due to any rough usage of the wrench.

What I claim is:—

1. A wrench comprising a shank having a longitudinal bore formed therein, a fixed jaw carried by the outer end of said shank, a rod rotatably mounted in the bore of said shank and having a spiral groove formed therein, a hand piece carried by the inner end of said rod, a nut carried by the outer end of said rod and retaining said rod within the bore of said shank, an adjustable jaw slidably mounted upon said shank, plugs mounted in said jaw, and pins carried by the inner ends of said plugs and extending through slots provided therefor in said shank with said pins engaging in the spiral groove of said rod whereby said adjustable jaw will be shifted upon said shank when said rod is rotated.

2. A wrench of the type described comprising a shank, a fixed jaw carried by the outer end thereof, said shank having a longitudinal bore formed therein, a rod rotatably

bly mounted in the bore of said shank and having a spiral groove, a hand piece carried by the inner end of said rod, an adjustable jaw slidably mounted upon said shank, inwardly projecting pins supported by said jaw and extending through slots provided therefor in said shank with said pins engaging in the groove of said rod, means engaging the first mentioned jaw for retain-

ing said rod within the bore of said shank, 10 and means carried by said adjustable jaw for detachably holding the pins thereof.

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

JOSEF KOVACS.

Witnesses:

FRANK SABO,
JOS. J. DROPSKEY.