

G. JURKOVICH.

WRENCH.

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1,027,341.

Patented May 21, 1912.

FIG. 1

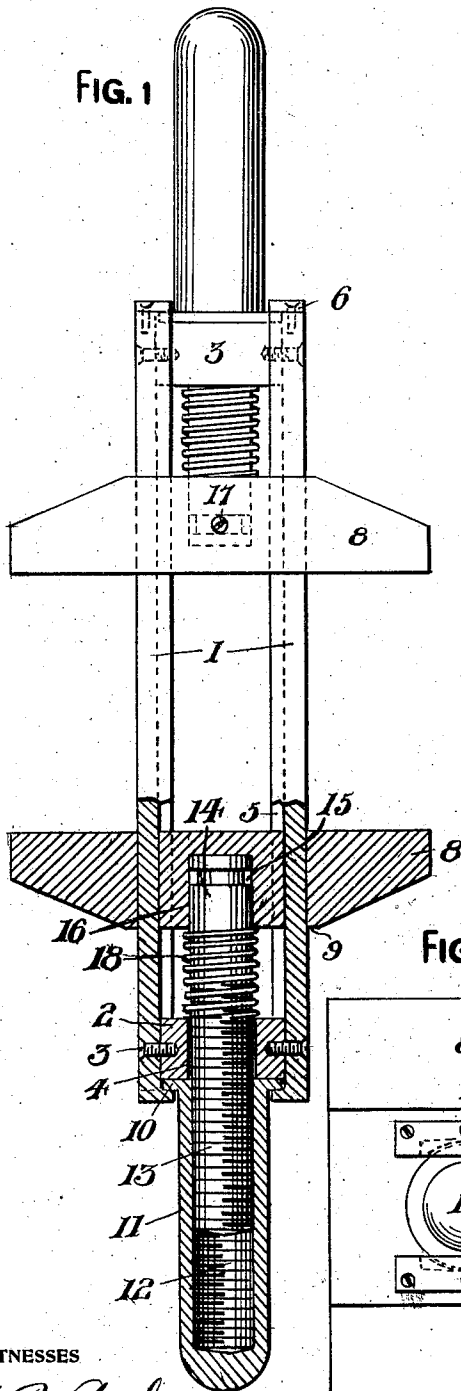


FIG. 2

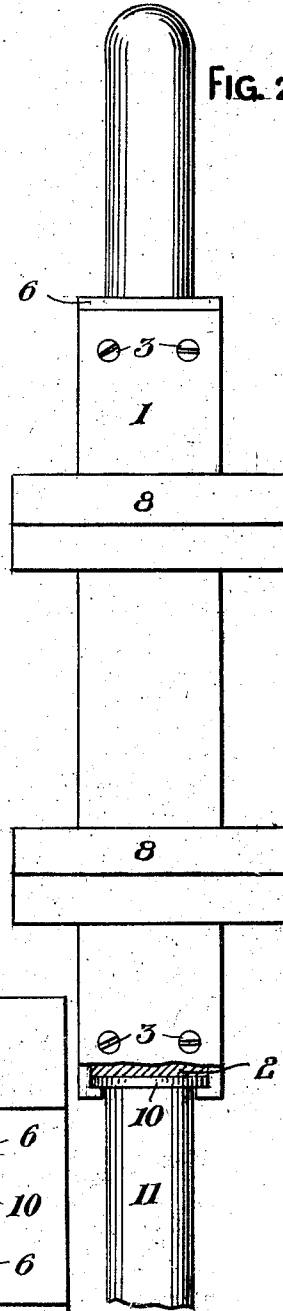
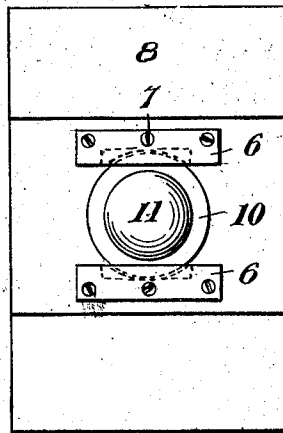


FIG. 3



WITNESSES

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WRENCH.

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To all whom it may concern:

Be it known that I, GEORGE JURKOVICH, a subject of the King of Hungary, residing at Homer City, in the county of Indiana 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 primary object of my invention is to provide a wrench with jaws, either of which can be adjusted, and the wrench manipulated with one or both hands, whereby considerable leverage can be obtained for rotating a nut or other object.

Another object of this invention is to provide a wrench similar to a pipe threader, the wrench having jaws that can be simultaneously adjusted and retained in engagement with a nut whereby the wrench will not slip when in use.

A further object of this invention is to accomplish the above results by a strong, durable, inexpensive and highly efficient tool for rotating a nut or other object.

With the above and other objects in view, the invention resides in the novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawing, wherein:—

Figure 1 is a side elevation of the wrench partly broken away and partly in section, Fig. 2 is a front elevation of the same, partly broken away and partly in section, and Fig. 3 is a plan of the wrench.

A wrench in accordance with this invention comprises parallel bars 1, constituting the shank of the wrench, said bars being retained in parallelism by blocks 2 and 3 that are held by the bars 1 through the medium of screws 3 or other fastening means. The blocks 2 and 3 are located at the ends of the bars 1 and said blocks are provided with openings 4 for a purpose that will hereinafter appear.

The confronting sides of the bars 1 are provided with longitudinal grooves 5, said grooves having open ends at one end of each bar and the opposite end of the grooves closed by the ends of the bars 1, as best shown in Fig. 1 of the drawing. The open ends of the grooves 5 are closed by detach-

able plates 6 secured to the ends of the bars 1 by screws 7 or other fastening means. It is through the medium of the detachable plates 6 that the parts of the wrench can be easily and quickly assembled.

Slidably mounted upon the bars 1 are double gripping jaws 8, said jaws having channel-shaped slots 9 to receive the bars 1, the slots 9 being arranged in parallelism, the walls of said slots firmly support the jaws 8 relatively to the bars 1. As the adjusting mechanism in said jaws are identical, I deem it only necessary to describe the adjusting mechanism of one of said jaws with particular reference to Fig. 1 of the drawing.

Revolubly held by the ends of the bars 1 is the peripheral flange 10 of a tubular handle 11, said handle having the inner walls thereof screw threaded, as at 12. Secured in the handle 11 and extending through the opening 4 of the block 2 is a screw 13, said screw having a smooth end 14 provided with an annular groove 15. The smooth end of the screw 15 extends into a socket 16 provided therefor in the jaw 8. The jaw 8 is provided with a screw or pin 17 that extends into the annular groove 15 of the screw 13, whereby the smooth end of the screw will be rigidly held in engagement with the jaw 8. Encircling the screw 13, between the jaw 8 and the block 2, is a coiled compression spring 18 for binding the threads of the screw 13 in the tubular handle 11 thereby preventing the accidental rotation of the latter.

The jaws 8 are rectangular in plan and present two sets of gripping surfaces, whereby either set of gripping surfaces can be used for gripping a nut or other object. It is only necessary to revolve the tubular handle 11 which engaging with the screw 13 within said handle, will separate the jaws 8 or move the jaws together, as occasion may demand. When the jaws 8 are placed in engagement with the facets of a nut, the wrench can be operated by one hand or manipulated similar to a pipe threading device, in which instance both hands are used.

The wrench in its entirety is made of strong and durable metal, and while in the drawing there is illustrated a preferred embodiment of the invention, it is to be understood that the structural elements are susceptible to such variations as fall within the scope of the appended claims.

What I claim is:—

1. A wrench comprising parallel bars having flanged ends, blocks connecting the ends of said bars and provided with openings, said blocks spaced from the flanges of said bars jaws slidably mounted upon said bars, said jaws being oppositely disposed, a tubular handle revolubly supported upon the flanges of said bars, screws adjustably mounted in said handle and extending through the openings of said blocks and rigidly connected to said jaws, and coiled compression springs encircling said screws between said blocks and said jaws.
2. A wrench comprising parallel bars having flanged ends, blocks connecting the ends of said bars and provided with openings and further spaced from said flanges, oppositely disposed jaws slidably mounted upon said bars, oppositely disposed tubular handles revolubly supported upon the flanges of said bars, and oppositely disposed screws adjustably mounted in said handles

and extending through the openings of said blocks and rigidly connected to said jaws. 25

3. A wrench of the type described comprising parallel bars having confronting faces thereof provided with grooves, said bars having flanged ends blocks arranged at the ends of said bars and connected thereto, said blocks having openings formed therein and spaced from said flanges, oppositely disposed jaws slidably mounted upon said bars and extending into the grooves thereof, oppositely disposed tubular handles revolubly supported by the flanges of the ends of said bars, and screws adjustably mounted in said tubular handles and extending through the openings of said blocks and having the ends thereof rigidly connected to said jaws. 30 35 40

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

GEORGE JURKOVICH.

Witnesses:

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B. B. McCONAUGHEY.