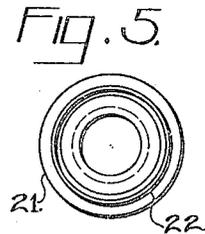
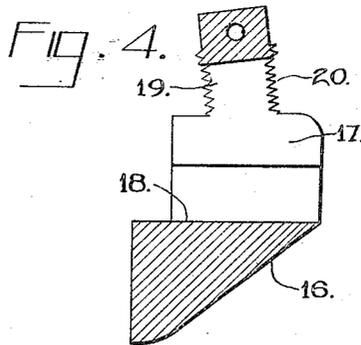
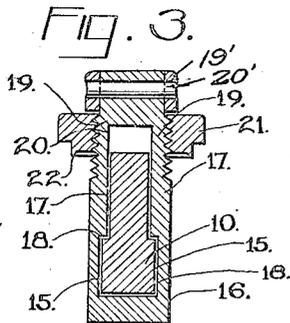
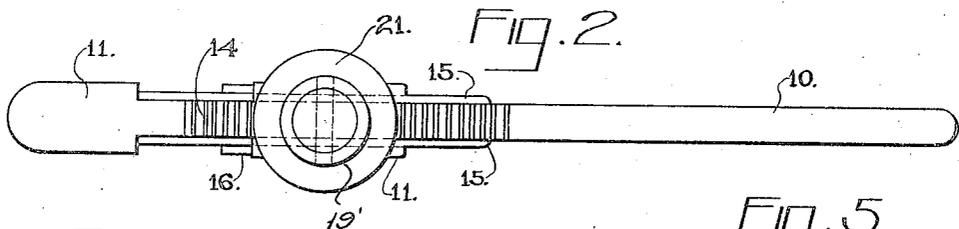
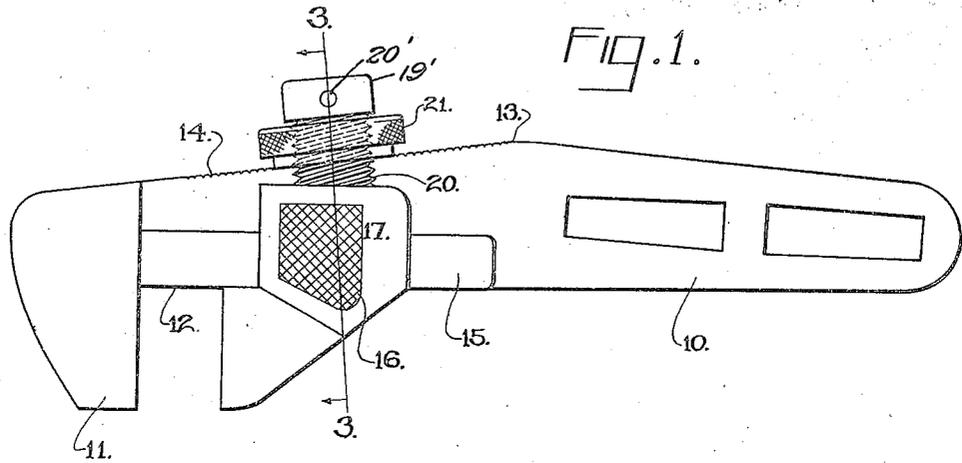


Jan. 2, 1923.

1,441,078.

E. H. FRIDLEY.  
WRENCH.  
FILED APR. 10, 1922.



H. A. de Clair.  
WITNESS.

E. H. FRIDLEY, INVENTOR  
BY *Victor J. Evans*  
ATTORNEY

Patented Jan. 2, 1923.

## UNITED STATES PATENT OFFICE.

ELMER HARVEY FRIDLEY, OF BELLEFONTAINE, OHIO.

WRENCH.

Application filed April 10, 1922. Serial No. 551,207.

*To all whom it may concern:*

Be it known that I, ELMER H. FRIDLEY, a citizen of the United States, residing at Bellefontaine, in the county of Logan and State of Ohio, have invented new and useful Improvements in Wrenches, of which the following is a specification.

This invention relates to wrenches, and has for its primary objects, the provision of a wrench of the quick adjusting type, wherein the movable jaw can be quickly and easily adjusted upon the shank of the wrench with relation to the fixed jaw and held fixed relatively to the shank in its given position.

More specifically stated, the invention provides a wrench wherein the movable jaw is of novel construction and equipped with means which cooperates with the shank of the wrench to permit of a quick adjustment of said jaw, and to subsequently hold the jaw in its given position.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawing, the invention residing in the construction, combination, and arrangement of parts as claimed.

In the drawing forming a part of this application, like numerals of reference indicate similar parts in the several views, and wherein:—

Figure 1 is a side elevation of the wrench constructed in accordance with the present invention.

Figure 2 is a rear edge elevation.

Figure 3 is a sectional view taken on line 3—3 of Figure 1.

Figure 4 is a detail view, partly in section of the movable jaw.

Figure 5 is a bottom plan view of the adjusting nut.

Referring to the drawing in detail, 10 indicates the shank of the wrench at one end of which is arranged the fixed jaw 11. The shank has a straight edge 12, while the opposite edge from the point 13 is inclined in the direction of the fixed jaw 11 and serrated or roughened as at 14. At each side of the shank, I provide a narrow strip 15 which constitutes guides for the movable jaw to be presently described. These strips 15 may be secured to the shank in any suitable manner, but if desired they may form an integral part of the shank.

The movable jaw is indicated at 16, and is

formed with side plates or members 17 which slidably embrace the shank 10, the inner surface of each plate being recessed as at 18 to receive the adjacent strip 15, the latter as above stated, constituting guides for the movable jaw. Projecting from each plate is one part 19 of a threaded stem 20, the latter being slotted to slidably receive the shank 10. The member 19 is provided with a cap-like member 19' which is held associated with the member 19 by means of a pin 20' passed through said parts as shown in Figure 3. Threadedly associated with the stem is a knurled nut 21 on one side of which is formed a bead or rib 22 adapted to engage the serrations 14 of the shank to hold the fixed jaw immovably positioned upon the shank. In practice, it is only necessary to loosen the nut and subsequently slide the movable jaw upon the shank to its desired position, and then by tightening the nut so that the rib 21 engages the serrations 14 the jaw is held fixed relatively to the shank 10. The invention is very simple in construction, and can be manufactured and sold at a very nominal cost.

While it is believed that from the foregoing description, the nature and advantages of the invention will be readily apparent, I desire to have it understood that I do not limit myself to what is herein shown and described, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim is:—

1. A wrench including a shank, a fixed jaw at one end thereof, a movable jaw slidably upon the shank, one edge of the shank being serrated, a threaded stem embracing said shank and connected with said movable jaw, a nut threaded on said shank, and a rib formed on one side of the nut and adapted to engage said serrations for the purpose specified.

2. A wrench comprising a shank, a fixed jaw at one end thereof, one edge of said shank being serrated, a movable jaw slidably on the shank, cooperating means on said shank and movable jaw to guide the latter in its movements, a threaded stem bifurcated to embrace said shank and connected with said movable jaw, a nut threaded on said stem, and an annular bead formed on one side of the nut and adapted to engage said serrations for the purpose specified.

3. A wrench comprising a shank, a fixed

jaw at one end of the shank, strips arranged of the movable jaw, and a nut threaded on  
at the opposed sides of the shank and con- said stem and cooperating with the shank to  
stituting guides, a movable jaw slidable on hold the jaw in a fixed position on said 10  
said shank and including opposed members, shank.  
5 said members being recessed to receive said In testimony whereof I affix my signa-  
strips, a threaded stem embracing said shank- ture.  
and connected with said opposed members

ELMER HARVEY FRIDLEY.