Oct. 21, 1930. T. M. WILKINS 1,779,025

WRENCH DEVICE

Filed May 29, 1929

Fig. 1.

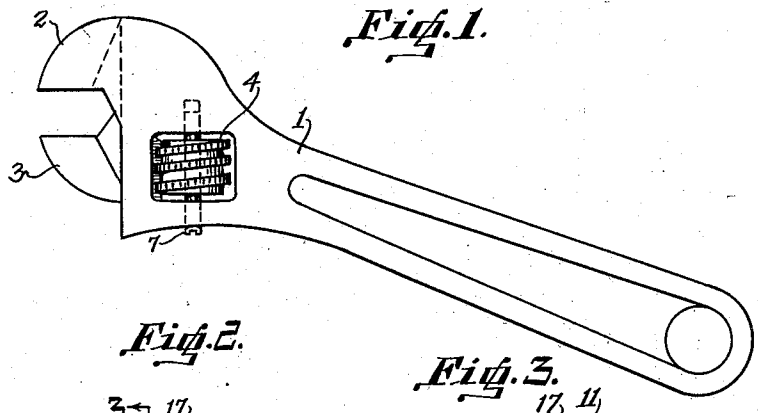


Fig. 2.

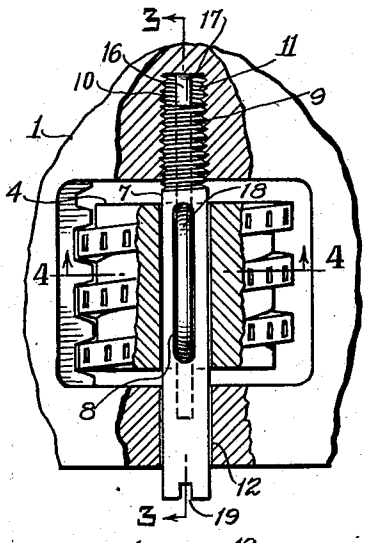


Fig. 3.

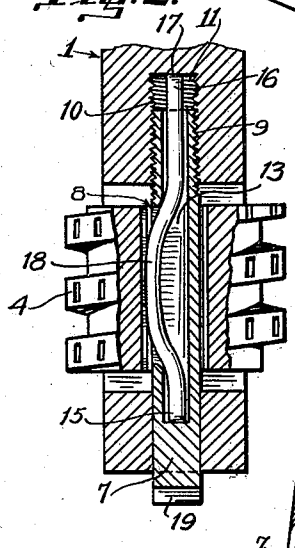
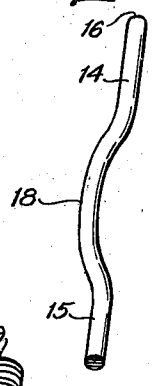


Fig. 5.



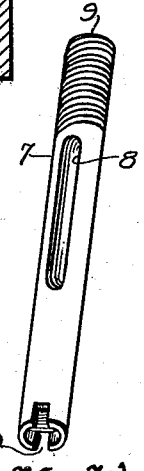


Fig. 6.

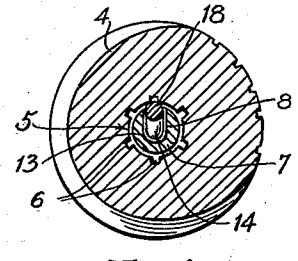


Fig. 4.

Inventor

Thomas M. Wilkins

By Mason Fenwick & Lawrence

Attorneys

Patented Oct. 21, 1930 1,779,025

UNITED STATES PATENT OFFICE

THOMAS M. WILKINS, OF JAMESTOWN, NEW YORK, ASSIGNOR OF ONE-FOURTH TO JOHN W. RULIFSON, OF JAMESTOWN, NEW YORK; INA M. WILKINS ADMINISTRATRIX OF SAID THOMAS M. WILKINS, DECEASED

WRENCH DEVICE

Application filed May 29, 1929. Serial No. 367,090.

This invention relates to improvements in a wrench device, particularly adapted for use in connection with crescent wrenches having an adjustor for the wrench jaws.

The prime object of this invention is to provide a means for bringing tension to bear upon the adjustor of the wrench jaws.

Another object of this invention is to provide a tension device for the adjustor, simple and efficient of construction and arranged in combination with a wrench in such a manner that the tension against the adjustor may be varied as desired.

Other objects of this invention will appear from the following detailed description of the device, and as disclosed in the single sheet of drawings which is herewith made a part of this application.

In the drawings—

Figure 1 illustrates a plan view of the wrench, including the tension device for the adjustor according to this invention.

Figure 2 represents a sectional view of a portion of the wrench showing the adjustor in operative relationship therein, and the tension device arranged in working relationship to the adjustor and wrench.

Figure 3 represents a sectional view of Figure 2 taken along line 3—3.

Figure 4 illustrates a sectional view of Figure 2 taken along line 4—4.

Figure 5 illustrates a perspective view of the wire or spring tension member.

Figure 6 illustrates a perspective view of the container for the wire or spring tension member.

As one modification of this invention, it is preferred that numeral 1 designate a wrench, such as the crescent type, having a plurality of jaw members 2 and 3, adapted to be spaced apart as desired by means of an adjustor 4, which may be formed and rotatively mounted within the wrench 1 in any suitable manner, as disclosed in the figures of drawings.

The adjustor member 4 is preferred to be provided with a rifled opening therethrough as clearly disclosed at 5, the rifled or grooved portions being designated by numeral 6, which function to provide additional frictional resistance. The opening 5 in the adjustor 4 is adapted to loosely receive a hollow pin member 7 made of any suitable material and having a longitudinal slot 8 arranged therein, one end of the pin 7 being provided with threaded portions 9 for cooperating with threaded sections 10 within a groove 11 formed in the body of the wrench 1. The pin member 7 is formed in such a manner that it will loosely extend through a properly located opening 12 in a portion of the wrench 1, then through the opening 5 of the adjustor 4 and into the threaded groove 10, as clearly disclosed in the figures of drawings.

The pin member 7 is further constructed in such a manner that the hollow portion 13 will extend only a part of its length, as clearly disclosed in Figure 3, and be of sufficient size to loosely receive a wire or spring tension member 14, one end 15 being adapted to extend and abut against the closed end of the pin 7. The other end 16 being adapted to abut the main body portion of the wrench, as clearly disclosed at 17. The wire or spring tension member 14 is further formed having a bow shaped section at 18 which is adapted to protrude through the slotted portion 8 of the pin 7 and contacting with the inner surface of the opening 5 in the adjustor 4.

The pin 7 is of sufficient length to allow at all times adjustability of tension through the wire or spring member 14, a groove 19 being provided in the free end of the pin 7 for the purpose of receiving a screw driver or the like, the turning of which would function to either bring more tension to bear upon the adjustor 4 or vice versa.

In operation this invention provides a very efficient and simple means for bringing a desired tension to bear upon the adjustor commonly used in connection with crescent wrenches or the like. The principal features of construction consist of a pin formed with an opening or hole through a portion of its length, having a longitudinal slot through which the tension member is adapted to extend and contact with the adjustor, a slight turn of the pin by a screw driver or other-

wise being all that is necessary to actuate the tension member.

It will be understood that many changes and modifications may be made in the form of the embodiment of the invention within the scope of the following claims without departing from the spirit thereof.

What I claim is:

1. In a wrench having jaws and adjustor therefor, openings registering with each other in the wrench and adjustor, a pin member adapted to extend loosely within the openings and having a hollow portion, a longitudinal slot in the pin in open communication with the hollow portion, a resilient element within the hollow portion of the pin and adapted to extend in part through the slot for contacting with the adjustor.

2. In a wrench having jaws and adjustor therefor, openings registering with each other in the wrench and adjustor, a pin member adapted to extend loosely within the openings and having a hollow portion, a longitudinal slot in the pin in open communication with the hollow portion, a resilient element within the hollow portion of the pin and adapted to extend in part through the slot for contacting with the adjustor, the pin being closed at one end and open at the other, the open end of the pin having threads thereon for cooperating with a threaded portion of the opening in the wrench.

3. In a wrench having jaws and adjustor therefor, openings registering with each other in the wrench and adjustor, a pin member adapted to extend loosely within the openings and having a hollow portion, a longitudinal slot in the pin in open communication with the hollow portion, a resilient element within the hollow portion of the pin and adapted to extend in part through the slot for contacting with the adjustor, the pin being closed at one end and open at the other, the open end of the pin having threads thereon for cooperating with a threaded portion of the opening in the wrench, one end of the resilient element being adapted to contact with the closed end of the pin, the other end of the resilient element contacting with a portion of the wrench, having a portion of the resilient element extending through the slot in the pin for contact with the adjustor.

4. In a wrench, an adjusting nut for one of the jaws, and a pin on which the nut is journalled, said pin having a bore opening in its side and a resilient element in said bore pressing against the bearing surface of said nut.

5. In a wrench, an adjusting nut for one of the jaws, a pin on which the nut is journalled, said pin having a bore opening in its side, a resilient element in said bore pressing against the bearing surface of said nut, and means for adjustably varying the pressure of said resilient element.

6. In a wrench, an adjusting nut for one of the jaws, a pin screwing into said wrench on which the nut is journalled, said pin having a bore opening at its inner end and through its side, a resilient wire in said bore having an end extending through said bore into contact with said wrench, and a portion pressing against the bearing surface of said nut, said wire being bowed into greater tension with said nut by screwing said pin further into said wrench.

In testimony whereof I affix my signature.

THOS. M. WILKINS.