April 27, 1926. 1,582,572

H. BURKEYBILE

DIE WRENCH

Filed July 3, 1923

Fig. 1.

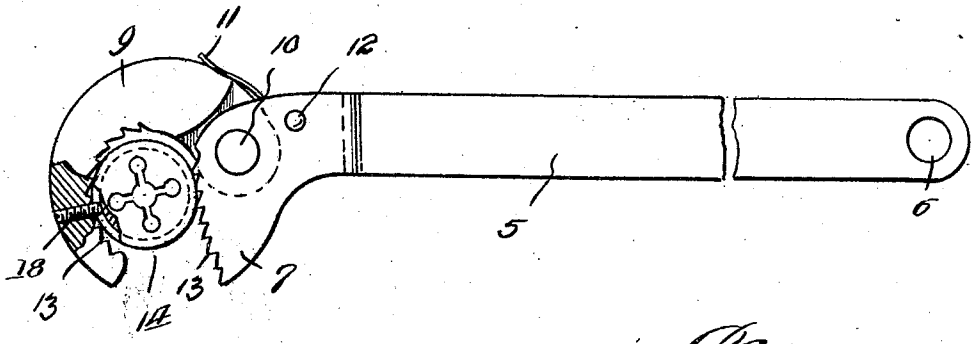
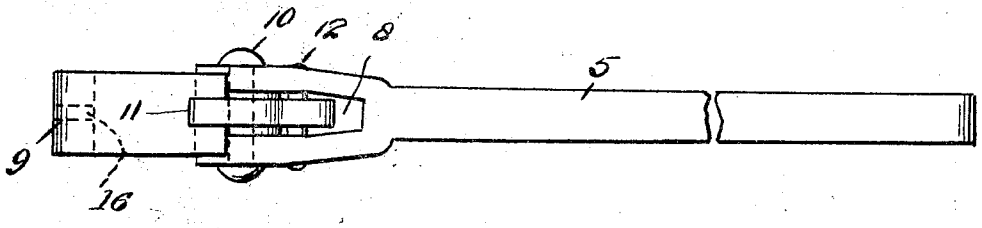


Fig. 2.



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Patented Apr. 27, 1926. 1,582,572

UNITED STATES PATENT OFFICE.

HARLEY BURKEYBILE, OF HILLYARD, WASHINGTON.

DIE WRENCH.

Application filed July 3, 1923. Serial No. 649,201.

To all whom it may concern:

Be it known that HARLEY BURKEYBILE, a citizen of the United States, residing at Hillyard, in the county of Spokane and State of Washington, has invented certain new and useful Improvements in Die Wrenches, of which the following is a specification.

This invention relates to certain new and useful improvements in tools of the type bearing considerable resemblance to wrenches of the pivoted outer jaw type, and has particular reference to a wrench which is utilized as a ratchet stock for operating screw threading dies.

An object of the invention is to produce a device of the above kind which embodies extreme simplicity of construction and which will be durable and efficient in operation.

With the above general objects in view, and others that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed. In the drawing, wherein like different characters indicate corresponding parts throughout the several views,

Figure 1 is a side elevational view of a tool constructed in accordance with the present invention, partly broken away, and shown in use, and,

Figure 2 is a top plan view of the device shown in Figure 1.

Referring more in detail to the several views, the present invention is in the general form of a wrench of the pivoted outer jaw type, embodying a handle or shank 5 provided with an aperture 6 at one end thereof, and formed with a laterally projecting rigid jaw 7 on the other end thereof, the jaw 7 being longitudinally bifurcated, as at 8, to receive the reduced inner end of an outer jaw 9 therebetween. The inner end of the jaw 9 is pivoted between the legs of the jaw 7 by means of a transverse pin, and the outer jaw 9 is yieldingly urged toward the jaw 7 by means of a spring 11 having its free outer end bearing upon the outer edge of the jaw 9 and having its inner end coiled about and secured to a transverse pin 12 between the legs of the jaw 7 rearwardly of the pivot 10.

The faces of the jaws are provided with the usual ratchet-like gripping teeth 13, whereby the jaws will obtain a firm engagement with the work when the shank 5 is swung downwardly as viewed with respect to Figure 1, while at the same time permitting the shank 5 to be returned upwardly without turning the work, due to the yielding of the spring 11 and the direction in which the teeth 13 face. The above operation is practically that incurred when the tool is employed upon a round piece of work such as the circular screw threading die 15 in the drawing.

It will be noted that the outer jaw 9 is provided with a transverse screw threaded opening 16 having a screw threaded lug 18 therein, the inner end of the plug 18 being of sufficient length, when in place, to project inwardly beyond the inner face of the jaw 9 and to enter the annular circumferential groove 19 provided in the die 15. By means of this construction the die is effectively held in place and guided in its rotary movement.

From the foregoing description, it is believed that the construction and operation, as well as the advantages of the present invention, will be readily understood and appreciated by those skilled in the art.

Minor changes may be made without departing from the spirit and scope of the invention as claimed.

Having thus described the invention what I claim as new, and desire to secure by Letters Patent, is:—

A tool of the class described comprising a shank, a pair of coacting jaws associated therewith, said coacting jaws adapted to engage and hold therebetween a screw threading die, the die being provided with an annular guide groove, one of said jaws having a threaded opening extending transversely therethrough, and a plug threaded in said opening and adapted to engage the annular guide groove provided in the die.

In testimony whereof I affix my signature.

HARLEY BURKEYBILE.