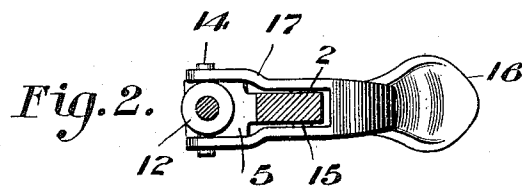
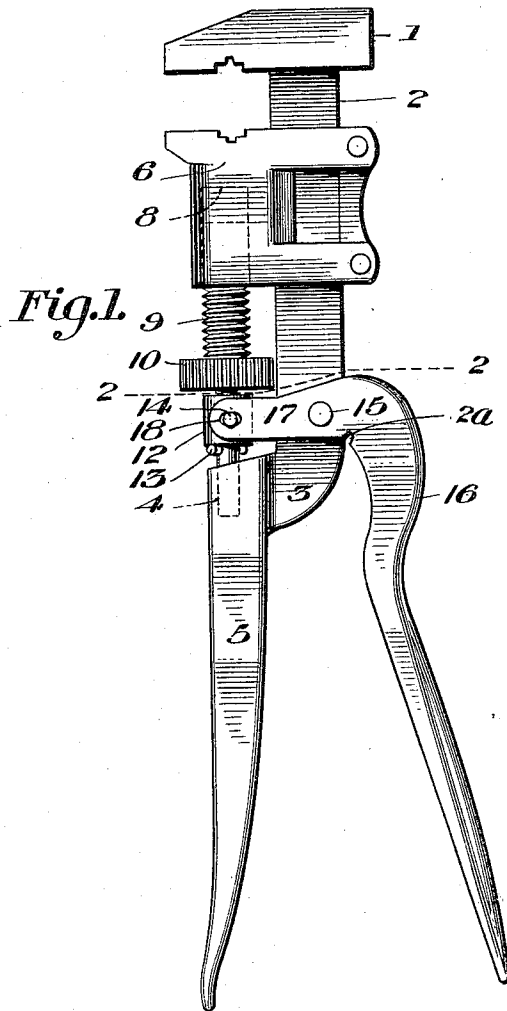


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WRENCH.
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1,175,934.

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Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

ADOLPHUS DESORMEAU, OF MANISTIQUE, MICHIGAN, ASSIGNOR OF ONE-HALF TO
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WRENCH.

1,175,934.

Specification of Letters Patent.

Patented Mar. 21, 1916.

Application filed June 28, 1915. Serial No. 36,798.

To all whom it may concern:

Be it known that I, ADOLPHUS DESORMEAU, a citizen of the United States, residing at Manistique, in the county of Schoolcraft and State of Michigan, have invented new and useful Improvements in Wrenches, of which the following is a specification.

My present invention pertains to sliding-jaw wrenches of the handle-lever grip type; and it consists in the peculiar and advantageous quick acting wrench hereinafter described and definitely claimed.

In the accompanying drawings which are hereby made a part hereof: Figure 1 is a side elevation of my novel wrench. Fig. 2 is a cross-section, taken in the plane indicated by the line 2—2 of Fig. 1.

Similar numerals of reference designate corresponding parts in all of the views of the drawings.

Integral with the fixed jaw 1 of the wrench is a shank 2 which is provided at an intermediate point of its length with a laterally-disposed portion 3. The said portion 3 is provided in its forward side with a longitudinally-disposed socket 4, and from the portion extends one handle 5 of the wrench. Slidable on the shank 2 is a jaw 6, opposed to the jaw 1, and formed in the rear side of said jaw 6 is a longitudinally-disposed threaded bore 8.

Guided rectilinearly in the socket 4 of the shank portion 3 is a screw 9 which extends into and engages the threaded bore 8 of the jaw 6. The said screw 9 is provided at 10 with an integral finger portion, and on the plain portion of the screw is loosely arranged a sleeve 12 which is interposed between the finger portion 10 and a cotter pin 13 or other suitable abutment carried by the screw. The said sleeve 12 is provided with opposite lateral projections 14.

Fulcrumed at 15 on the shank 2 is the handle 16 complementary to the handle 5. The said handle 16 is provided at its forward end with a transversely-disposed bifurcated portion 17. This latter straddles the shank 2 and the sleeve 12 and is provided in its arms with apertures 18 which receive the projections 14 of the sleeve. Manifestly when the screw is turned about its axis the slidable jaw will be moved toward or from the fixed jaw according to the direction of rotation. In this way the wrench may be approximately accommo-

dated to the size of the article to be turned. Then when the jaws are properly positioned relative to the article, and the handles are gripped to draw the handle 16 toward the handle 5, the jaws will be strongly held against the article. Again when the handles are relieved of pressure, the jaws will be immediately released from the article and may then be disengaged, therefrom.

It will be appreciated from the foregoing that my novel wrench is simple and compact in construction, susceptible of being quickly and easily adjusted to the approximate size of the article to be turned, and adapted to be expeditiously and firmly fixed on and as readily released from the article.

I have entered into a detailed description of the best practical embodiment of my invention of which I am cognizant in order to impart a full, clear and exact understanding of said embodiment. I do not, however, desire to be understood as confining myself to the specific construction and relative arrangement of parts since in the future practice of the invention such modifications may be made as fairly fall within the scope of my appended claims.

When desirable the handle may be made slightly longer than the handle 16 and shaped to form a screw driver. This, however, is not of the essence of my invention, and it may therefore be omitted when deemed expedient. It will also be noticed that the handle 16 is preferably provided at 2^a in the arms of its bifurcation with a wire-receiving notch, said notch being designed to cooperate with the opposed edge of the shank 2 to form an efficient wire-cutter.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

1. A wrench of the sliding-jaw, handle-lever grip type, comprising a fixed jaw, a shank integral with said jaw and having a laterally-disposed portion which terminates in a handle and also having a longitudinally-disposed socket in said portion, a jaw slidable on the shank, between the fixed jaw and said laterally-disposed portion, and having a longitudinally-disposed threaded bore in its rear end, a longitudinally-disposed screw extending into and engaging said bore and also having an intermediate finger portion and a plain portion, the latter movable in the socket of the shank portion, a sleeve

loosely mounted on the plain portion of the screw and interposed between the finger portion and an abutment carried by the screw and having opposite projections, and a
5 handle having a bifurcated, transversely-disposed portion, pivoted to and straddling the shank and also straddling the sleeve and having apertures in its arms receiving the projections of the sleeve.

10 2. A wrench comprising a shank having a jaw at one end and a laterally-disposed portion at its opposite end terminating in a handle, a jaw slidable on the shank, a longitudinally-disposed screw threaded into the
15 slidable jaw and socketed and guided in said laterally-disposed portion of the shank and having a finger portion, a sleeve loosely mounted on and movable endwise with the screw, and a handle pivoted to or fulcrumed

on the shank and having an arm connected 20 with said sleeve.

3. A wrench comprising a shank having a jaw and a handle, a jaw slidable on said shank, a longitudinally-disposed screw threaded into the slidable jaw and guided 25 by the shank and having a finger portion, a handle pivoted to or fulcrumed on the shank and having an arm, and means connecting said arm with the screw and constructed and arranged to permit of free rotation of the 30 screw.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ADOLPHUS DESORMEAU.

Witnesses:

R. H. TEEPLE,
WM. MUELLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."