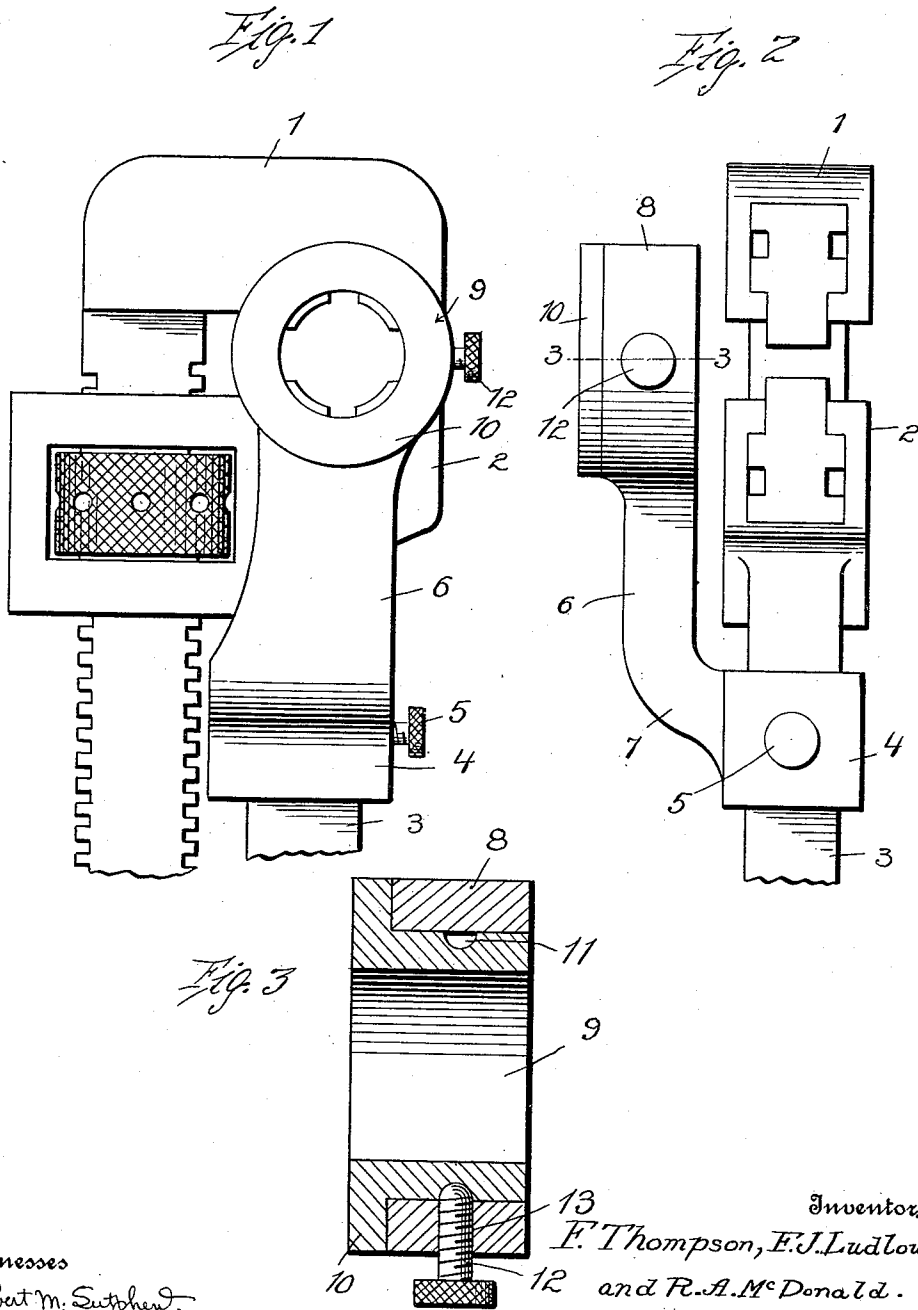


F. THOMPSON, F. J. LUDLOW & R. A. McDONALD.
ATTACHMENT FOR WRENCHES.
APPLICATION FILED DEC. 7, 1912.

1,064,399.

Patented June 10, 1913.



Witnesses
Robert M. Sutphen
A. L. King.

Inventors

F. Thompson, F. J. Ludlow
and R. A. McDonald.

By

Watson E. Coleman
Attorney

UNITED STATES PATENT OFFICE.

FRED THOMPSON, FREDERICK J. LUDLOW, AND RANALD A. McDONALD, OF SYDNEY MINES, CAPE BRETON, NOVA SCOTIA, CANADA.

ATTACHMENT FOR WRENCHES.

1,064,399.

Specification of Letters Patent.

Patented June 10, 1913.

Original application filed July 22, 1912, Serial No. 711,005. Divided and this application filed December 7, 1912. Serial No. 735,550.

To all whom it may concern:

Be it known that we, FRED THOMPSON, FREDERICK J. LUDLOW, and RANALD A. McDONALD, subjects of the King of England, residing at Sydney Mines, Cape Breton, in the Province of Nova Scotia and Dominion of Canada, have invented certain new and useful Improvements in Attachments for Wrenches, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in wrenches, and more particularly to that class of wrenches as disclosed in our prior application, filed July 22, 1912, Serial No. 711,005, and of which this is a divisional application.

An object of this invention is the provision of a wrench having a stationary jaw and a movable jaw, and an adjustable support mounted on the handle of the stationary jaw so that the wrench may be supported upon the end of a pipe when the same is used for cutting or threading pipes.

A further object of this invention is the provision of a wrench which is provided with an adjustable support, the support being formed with a bearing in which a sleeve is rotatably mounted, whereby the wrench may be rotatably supported upon the end of a pipe.

With the above and other objects in view, this invention consists of the novel constructions and arrangements of parts to be hereinafter more fully described, claimed, and illustrated in the accompanying drawing, in which—

Figure 1 is a side elevation of our device. Fig. 2 is a front elevation thereof, and Fig. 3 is a section on the line 3—3 of Fig. 2.

Referring more particularly to the drawings, the numeral 1 designates a movable jaw, and 2 a stationary jaw of a wrench, which may be constructed in accordance with the jaws in our prior application above referred to, or may be of any other desired construction. The stationary jaw is provided with a longitudinally extending handle 3, on which is adjustably mounted a support which is adapted for holding the device upon a pipe. The support comprises a sleeve 4 which is formed with an opening therein for receiving the handle 3 of the stationary jaw. The sleeve is slidably

mounted upon the handle 3 and is provided with a set screw 5 by which the sleeve may be held in adjusted position upon the handle. An arm 6 is offset from the sleeve at one side thereof, as at 7, and extends forwardly, and is formed in its upper extremity with a bearing 8, which is adapted to lie in alinement with the jaws of the device. The bearing 8 is adapted to hold various sizes of pipe, and for rotatably mounting the pipe in the bearing, a sleeve 9 is provided, which is formed with a peripheral flange 10, the flange forming a stop to limit the inward movement of the sleeve in the bearing.

The outer periphery of the sleeve is provided intermediate of its ends with an annular groove 11 in which is adapted to rest one end of a set screw 12 disposed in an opening 13 in the bearing, thereby providing means for holding the sleeve within the bearing and at the same time allowing it to rotate freely. It will be seen that the flange 10 on the sleeve 9 limits the inward movement of the sleeve in the bearing 8, and that when the flange 10 is in engagement with the bearing, the groove 11 will be maintained in alinement with the opening 13 in the bearing, thereby facilitating the engagement of the set screw 12 with the annular groove 11.

It will, of course, be understood that sleeves 9 having bores of any desired diameter may be used in connection with the bearing 8, so that the device may be mounted upon pipes of different exterior diameters. Cutting or threading tools of any desired construction may be supported in the jaws 1 and 2 of the device and if desired the cutters illustrated in our prior application for patent may be supported therein.

What we claim is:—

1. In a device of the character described, the combination with a wrench having a handle, a stationary jaw mounted thereupon, a movable jaw adjustably mounted thereupon, a support comprising a sleeve adjustably mounted upon said handle, an arm extending from said sleeve, a bearing mounted upon said arm, and a sleeve rotatably mounted within said bearing, substantially as and for the purpose described.

2. In a device of the class described, the combination with a wrench having a handle,

- a support comprising a sleeve adjustably mounted upon said handle, an arm extending from said sleeve, a bearing mounted upon said arm, a sleeve adapted to be rotatably mounted within said bearing, and a flange formed upon said sleeve for limiting the inward movement of said sleeve in said bearing, substantially as and for the purpose described.
3. In a device of the character described, the combination of a wrench having a handle, a support comprising a sleeve adjustably mounted upon said handle, an arm extending from said sleeve, a bearing mounted upon said arm, a sleeve rotatably mounted within said bearing, a flange formed upon said sleeve and adapted to limit the inward movement thereof in said bearing, and means for maintaining the second mentioned sleeve in position in said bearing.
4. In a device of the character described, the combination of a wrench having a handle, a sleeve adjustably mounted upon said handle, an arm extending outwardly and upwardly from said sleeve, a circular bearing formed upon said arm, a sleeve rotatably mounted within said bearing, the outer periphery of said sleeve having an annular groove formed therein, and a set screw mounted within said bearing and operating within said groove, substantially as and for the purpose set forth.
5. In a device of the character described, the combination with a handled wrench having a stationary and a movable jaw, a support adjustably mounted upon said handle, a bearing carried by said support, and means for maintaining said bearing in lateral spaced relation with said jaws, as and for the purpose described.
6. In a device of the character described, the combination with a handled wrench having a stationary jaw and a movable jaw, a support adjustably mounted upon said handle, and a bearing carried by said support in spaced relation with said jaws, as and for the purpose described.
7. In a device of the character described, the combination with a handled wrench having a movable jaw and a stationary jaw, a support adjustably mounted upon said handle, a bearing carried by said support and in spaced relation with said jaws, and a sleeve rotatably mounted within said bearing, substantially as and for the purpose described.
- In testimony whereof we hereunto affix our signatures in the presence of two witnesses.
- FRED THOMPSON.
FREDERICK J. LUDLOW.
RANALD A. McDONALD.
- Witnesses:
MATTHEW MACLEAN,
MALCOLM H. CAMPBELL.

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