B. J. STEEN.

PIPE WRENCH.

APPLICATION FILED MAR. 4, 1919.

1,322,643. Patented Nov. 25, 1919.

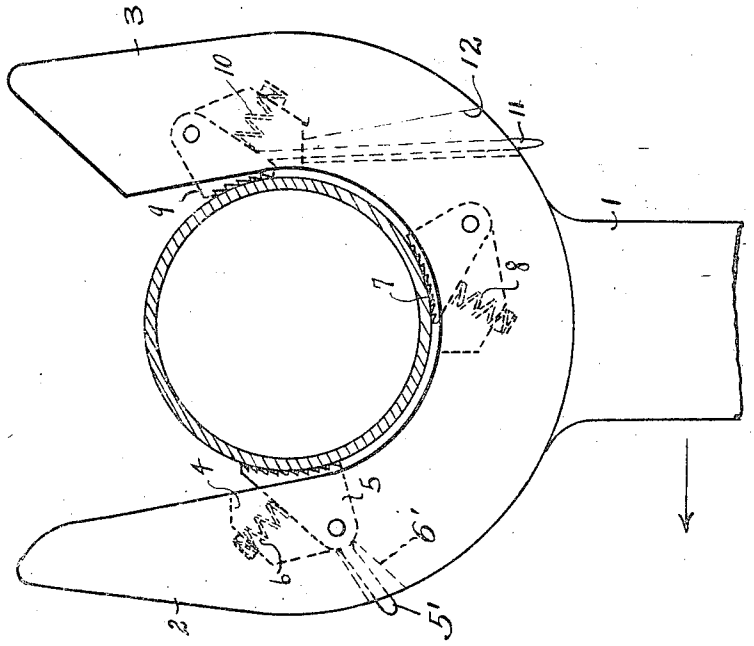


Fig. 2.

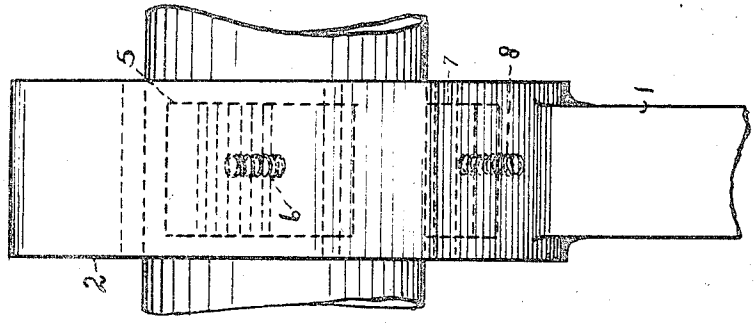


Fig. 1.

Witness

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PIPE-WRENCH.

1,322,643. Specification of Letters Patent. Patented Nov. 25, 1919.

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To all whom it may concern:

Be it known that I, BUFORD J. STEEN, a citizen of the United States, residing at Goose Creek, in the county of Harris and State of Texas, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is a specification.

This invention relates to new and useful improvements in a pipe wrench.

One object of the invention is to provide a wrench of the character described, adapted to be used for screwing sections of pipe together, and for unscrewing them. However, the wrench may be used for other similar purposes to which it may be applicable.

Another object of the invention resides in the provision of a wrench of the character described, which is of simple and cheap construction, and may be easily manipulated to turn the pipe sections in either direction in screwing them together, or separating them.

A further feature of the invention resides in the provision of a wrench which may be readily released from the pipe or other object which may be engaged thereby.

With the above and other objects in view, the invention has particular relation to certain novel features of construction, arrangement of parts and use, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:

Figure 1, is a side view of the wrench, and Fig. 2, is a plan view thereof.

Referring now more particularly to the drawings wherein like numerals of reference designate similar parts in each of the figures, the numeral 1 refers to a wrench handle, whose operative end is formed into the arcuate gripping jaws 2 and 3. The jaw 2 is provided on its inner side, with a recessed bearing 4, wherein the dog 5 is pivoted. The outer end of this dog is toothed, and the dog is seated against the coil spring 6, which operates to hold it projected from the jaw and into engagement with the pipe and there is an extended handle 5′ integral with the dog 5, which projects through the relatively wide slot 6′ of the jaw 2, through which said dog may be released from the pipe. The jaw 3, near its base, has a similar dog 7, which is held projected against the pipe by means of the coil spring 8, and near the free end of the jaw 3, there is a similar dog 9, whose outer or operative face is toothed to engage with the pipe, and which is held in engagement therewith by means of the coil spring 10. When the wrench is applied to the pipe, the dog 9 will pass more than half of the way around the pipe from the dog 5. Should the handle 1 be then moved in the direction indicated by the arrow, said dogs will engage with the pipe and turn same. In order to release the wrench from the pipe, I have provided a release rod 11, which is attached at one end to the inner end of the dog 9, and which projects out through the slot 12, out through the jaw 3. When this rod is pulled in the direction toward the free end of the jaw 3, it will release the dog 9 from the pipe and the wrench may be then disengaged from said pipe. By reversing the wrench in its application to the pipe, said pipe may be turned in the other direction, the wrench thus being adapted for use in either screwing or unscrewing pipe.

What I claim is:

A wrench including a handle, a pair of opposed arcuate jaws integral with the handle adapted to embrace a pipe, there being recesses in the walls of said arcuate jaws and slots communicating from certain of said recesses to the outer surface of the jaws, a dog pivotally mounted in each of said recesses adapted to grip the pipe, and handles integrally formed with certain of said dogs and protruding through said slots whereby the dogs can be manipulated by hand during operation and springs urging said dogs to grip the pipe.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

BUFORD J. STEEN.

Witnesses:
E. V. HARDWAY,
JAS. W. OLIVER.