O. J. WATTS.
PIPE WRENCH.
APPLICATION FILED OCT. 17, 1910.

1,002,101. Patented Aug. 29, 1911.

Fig. 1.

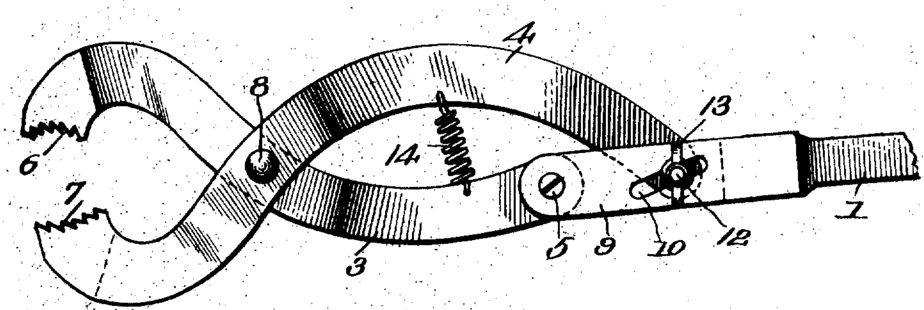
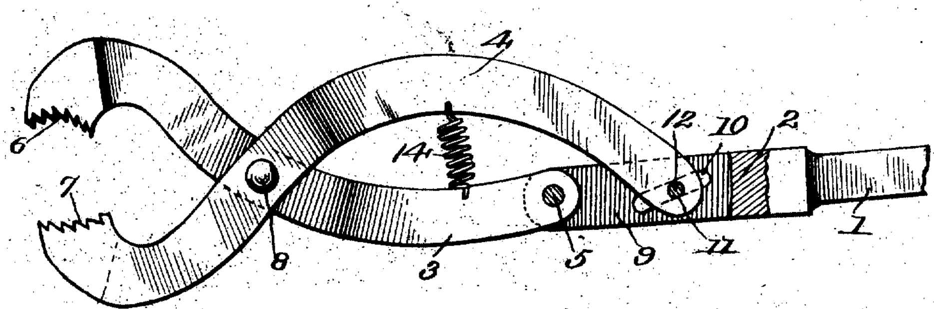


Fig. 2.



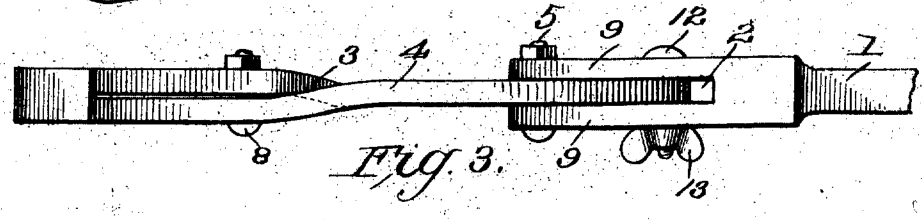


Fig. 3.

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PIPE-WRENCH.

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To all whom it may concern:

Be it known that I, OSCAR J. WATTS, a citizen of the United States, residing at Kensington, in the county of Smith and State of Kansas, have invented certain new and useful Improvements in Pipe-Wrenches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to pipe wrenches, and particularly to an improved device of this character, having jaws adapted to be locked to a pipe.

The object of the invention is to provide a wrench in which the jaws are yieldingly held together for convenient adjustment and quick application to a pipe.

With the above and other objects in view, this invention consists in certain novel features of construction, and combination and arrangement of parts to be hereinafter more fully described and particularly pointed out in the claim.

In the accompanying drawings forming a part of this specification, and in which like characters of reference designate corresponding parts—Figure 1 illustrates a wrench embodying my invention; Fig. 2 is a similar view, part of the handle being broken away to show the connection of the jaws thereto, and Fig. 3 is an edge view of the wrench shown in Fig. 1.

In the drawings 1 represents a handle bifurcated at its upper end, as at 2, for receiving the ends of a short jaw lever 3 and a longer jaw lever 4. The lever 3 is pivotally connected at 5 to the end of the bifurcated portion of the handle, and has substantially the form of the letter **S**, terminating in a concave serrated jaw 6. The lever 4 is of a similar shape to the lever 3, across which it is arranged so that its corresponding jaw 7 is opposite the jaw 6, the said levers being connected together by a pivotal pin 8. The sides 9 of the bifurcated portion of the handle are provided with alining slots 10, extending at a downwardly inclined angle toward the upper end thereof. Passing through the inclined slots 10 and an aperture 11 in the lever 4 is a bolt 12, having a wing nut 13, which is adapted to secure the parts in locked position after the jaws 6 and 7 have been applied to a pipe. By means of a coiled spring 14, connecting the levers below the pivotal pin 8, quick action of the jaws is obtained.

In applying my improved wrench the jaws are pressed against the pipe, thereby causing them to open and the bolt 12 to slide upwardly in the slots 10. By operating the handle in the usual manner the jaws grip the pipe, and the wing nut 13 may be adjusted to lock them in operative position.

Although the elements herein shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that slight changes may be made in the precise construction set forth without departing from the spirit of the invention.

Having fully described my invention, what I claim is:

A wrench comprising a bifurcated handle, an oppositely curved lever, the longer curved portion being pivoted to the end of the bifurcated handle, and the shorter portion terminating in a serrated jaw, a similar lever arranged with its jaw opposite the jaw of the first mentioned lever and connected thereto by a pivot, a coil spring connecting the longer curved portions of said levers and adapted to close said jaws, the sides of the bifurcated handle being provided with diagonally extending slots, and a bolt extending through said slots and the end of the second-mentioned lever, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

OSCAR J. WATTS.

Witnesses:
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