D. W. Coggeshall,

Wrench.

No. 55,578. Patented June 12, 1866.

Fig 1.

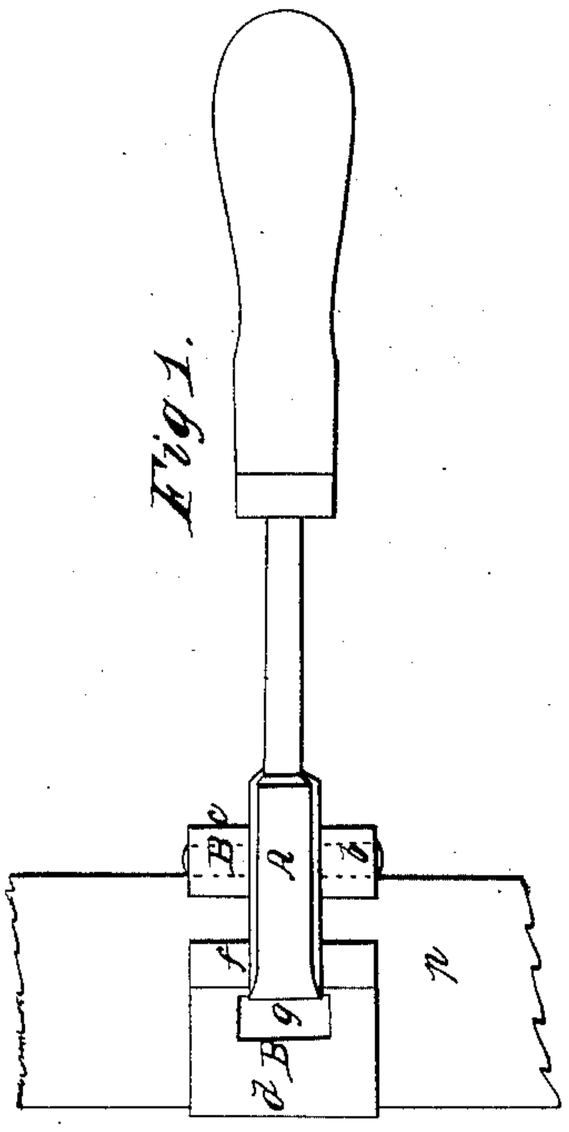


Fig 2.

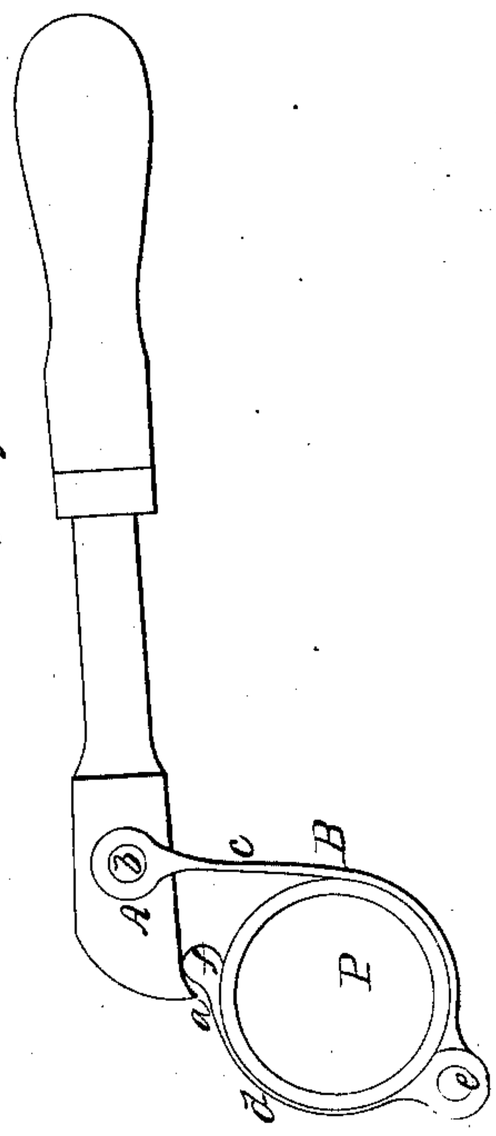
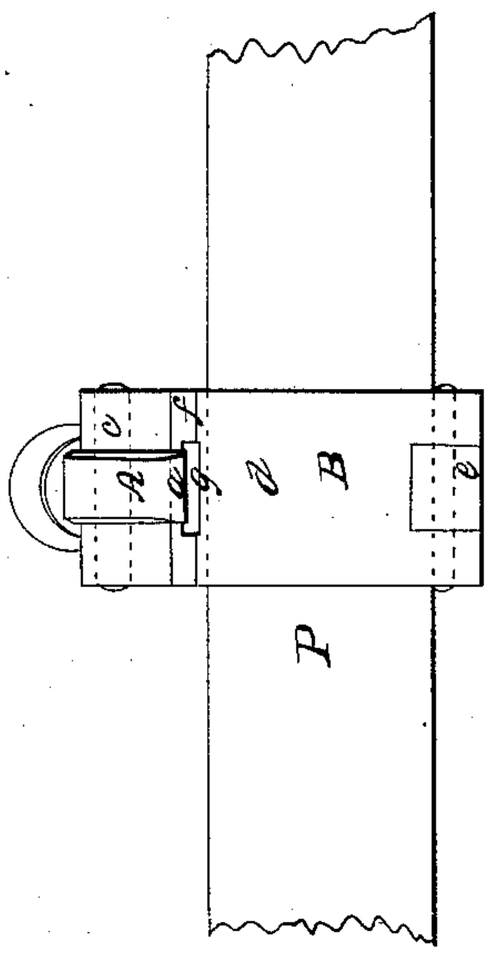


Fig 3.



Witnesses.
Samuel N Piper
George Andrews

Inventor.
Durfee W. Coggeshall
by his attorney
R. H. Eddy

UNITED STATES PATENT OFFICE.

DURFEE W. COGGESHALL, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO GEORGE E. CHURCH, OF SAME PLACE.

IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. **55,578,** dated June 12, 1866.

To all whom it may concern:

Be it known that I, DURFEE W. COGGESHALL, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Pipe-Wrench; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, and Fig. 3 a front end elevation, of it.

In such drawings, A denotes a lever constructed with a hook or tooth, *a*, arranged at the extreme of its lesser arm, and formed as represented. At its fulcrum *b* the lever is jointed or hinged to one end of a clasp, B, composed of two curved jaws, *c d*, which are hinged together, as shown at *e*. The first of these jaws, besides straddling the lever, has the fulcrum-pin fixed in it and going through it and the lever. The second jaw terminates in a cylindrical or other proper-shaped head, *f*, alongside of which and through the jaw there may be an opening or slot *g*, the whole being as represented.

In applying the implement to a tube or a round rod, the jaws are to be opened, so as to admit of their being clasped around it, the lever being arranged with respect to them in manner as shown in Fig. 2, in which the pipe is exhibited at P.

The head *f* and the hooked tooth *a*, by their co-operation, enable the clasp to be moved back on a pipe without becoming disengaged therefrom. The lever A, by its action on the head *f* of the clasp while such lever is in the act of being moved, so as to effect the rotary motion of a pipe, will cause the jaws of the clasp to take a firm grasp on the tube.

By imparting to the lever a reciprocating movement, the clasp, while the lever is moving in one direction, will be caused to relax its hold on the pipe, and to firmly grasp and revolve it while the lever is moving in the opposite way.

The great advantage of my wrench over various pipe tongs and wrenches is, that it, while hold of and turning a pipe or rod, is not so liable to jam, abrade, or otherwise injure it.

I am aware that for the purpose of arresting a wheel or pulley while in motion it is not new to apply a strap, band, or brake to its circumference, and to have a lever so hinged to such band or brake as to enable it to be contracted or forced upon the said circumference or moved out of action thereon, as circumstances may require. Therefore I lay no claim to such, or the principle thereof, so far as it may be found in my improved or new pipe-wrench.

What I do claim as my invention is—

The pipe-wrench made substantially as described, viz: of the lever and hinged jaws or clasp provided with the tooth *a* and bearing *f*, and combined and arranged in manner and so as to operate substantially as and for the purpose as hereinbefore specified.

DURFEE W. COGGESHALL.

Witnesses:

HENRY MARTIN,

ALBERT M. HEWITT.