

(No Model.)

J. A. MALONEY.
PIPE WRENCH.

No. 416,792.

Patented Dec. 10, 1889.

Fig. 1.

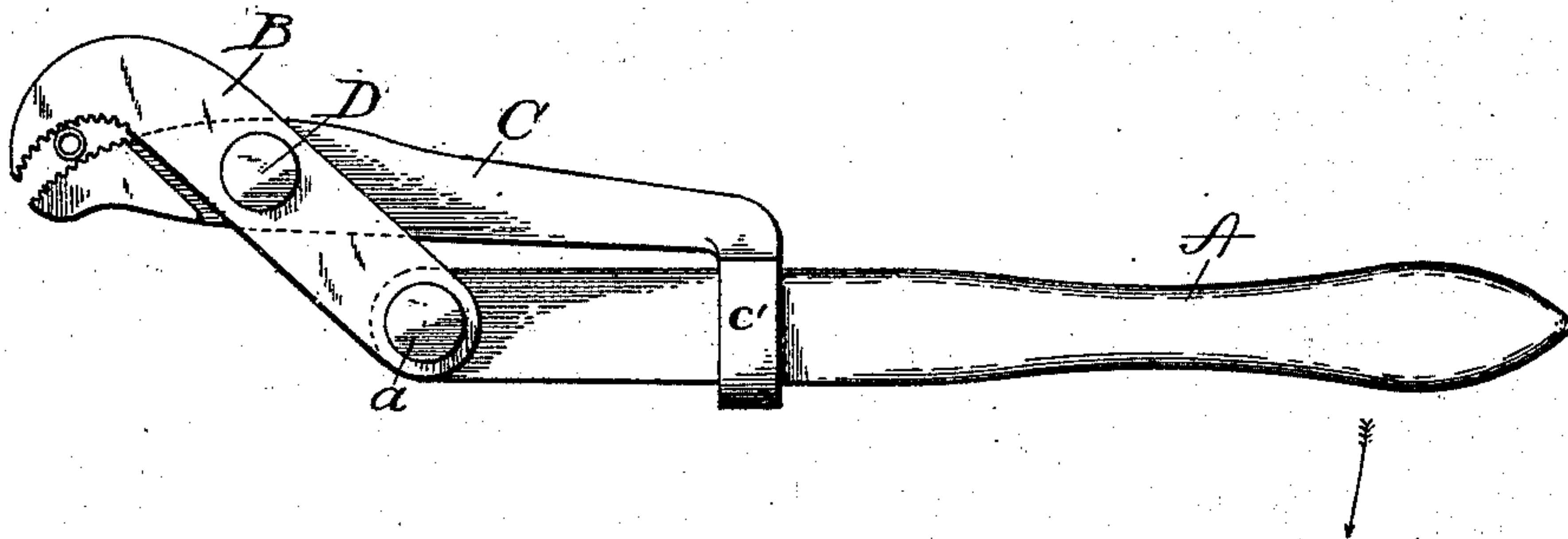
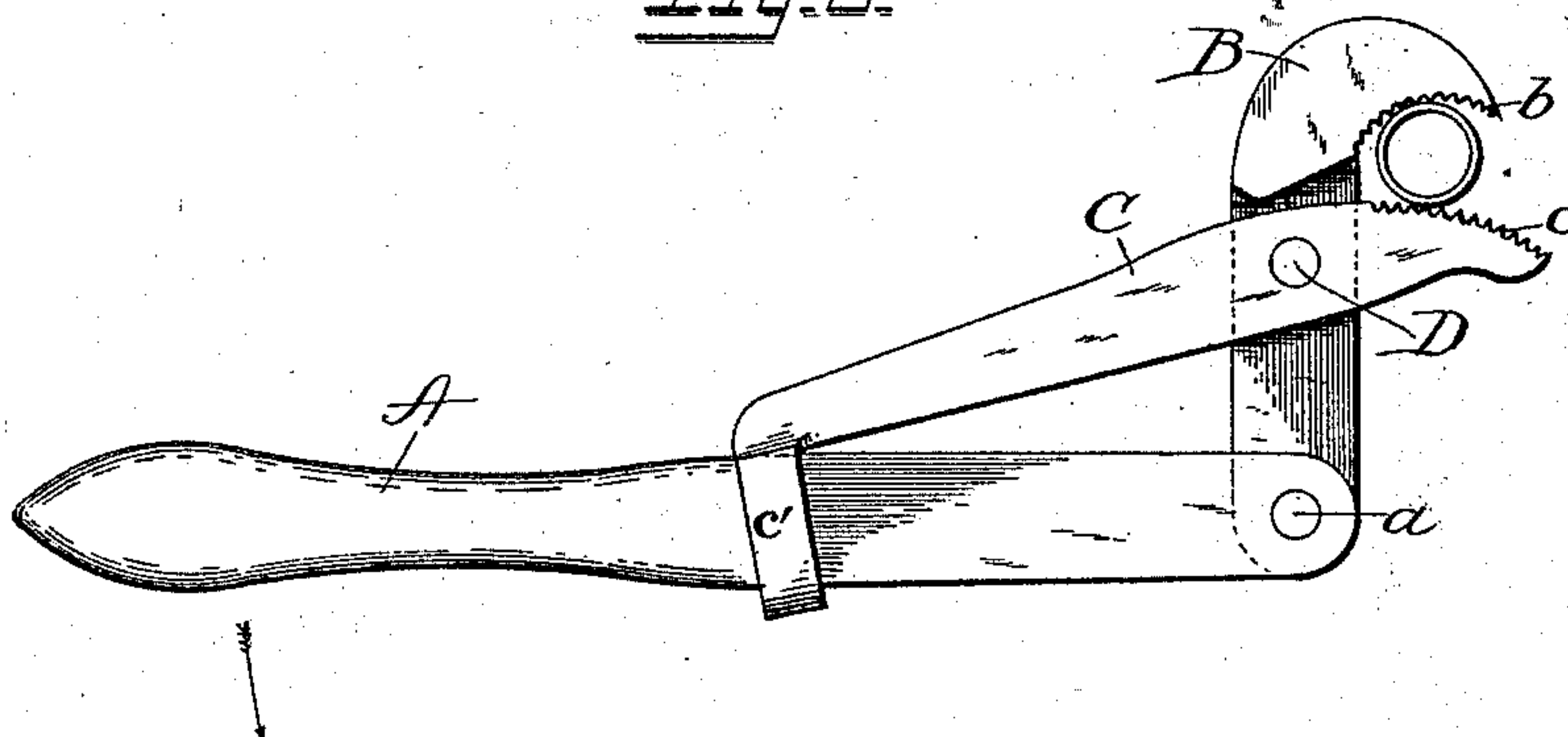


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH A. MALONEY, OF LEAVENWORTH, KANSAS, ASSIGNOR OF TWO-THIRDS TO N. F. ACERS, OF SAME PLACE, AND CHARLES C. WELBORN, OF KANSAS CITY, KANSAS.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 416,792, dated December 10, 1889.

Application filed April 13, 1889. Serial No. 307,183. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH A. MALONEY, a citizen of the United States, residing at Leavenworth, in the county of Leavenworth 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.

My invention relates to improvements in pipe-wrenches; and it consists in the combination of a pair of crossed pivoted jaws and a handle connected to the end of one of the jaws by a pivotal joint and to the end of the other jaw by a yoke or loop on the latter, the same affording a sliding fulcrum for the handle.

In the drawings forming a part of this specification, Figure 1 is a side elevation of my wrench, represented as gripping a pipe of small diameter; and Fig. 2 is a side elevation of the same reversed, the jaws in this case being represented as open, in the act of gripping a pipe of larger diameter.

Referring to the drawings by letter, A is the handle of my wrench. B and C are the jaws thereof, pivoted together at D, and provided with milled or roughened portions *b c* at the point of contact with the pipe. The jaw B is pivoted to the handle at the point *a*. The jaw C is provided at its outer end with the loop or yoke *c'*, which encircles the handle A, on which it is free to move, subject to its other connections.

In using my improved wrench, it is applied to the pipe to be turned, the jaws are lightly closed by pushing forward the yoke *c'* on the handle A, and the handle is turned in the direction of the arrow. This, by means of the grip obtained upon the pipe by the jaws B and C through their milled or roughened portions, forces the pipe to turn.

By my arrangement and combination of parts I secure a wrench which is an improvement upon those that have preceded it in that it is adapted by a quick and easy adjustment to fit a range of sizes of pipes varying from the smallest sizes to one of the full capacity of the tool. It does not slip, nor does it crush the piping, both of which are disadvantages of other devices of a like character.

Having now described my invention, I claim as new—

The combination, in a pipe-wrench, of a pair of crossed pivoted jaws and a handle, the outer end of the shank of one jaw being pivoted to the handle, and the outer end of the other jaw being provided with a loop or yoke embracing the handle for affording a sliding fulcrum to the same, substantially as described.

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

JOSEPH A. MALONEY.

Witnesses:

GEO. W. EARLY,
JOHN B. PREST.