

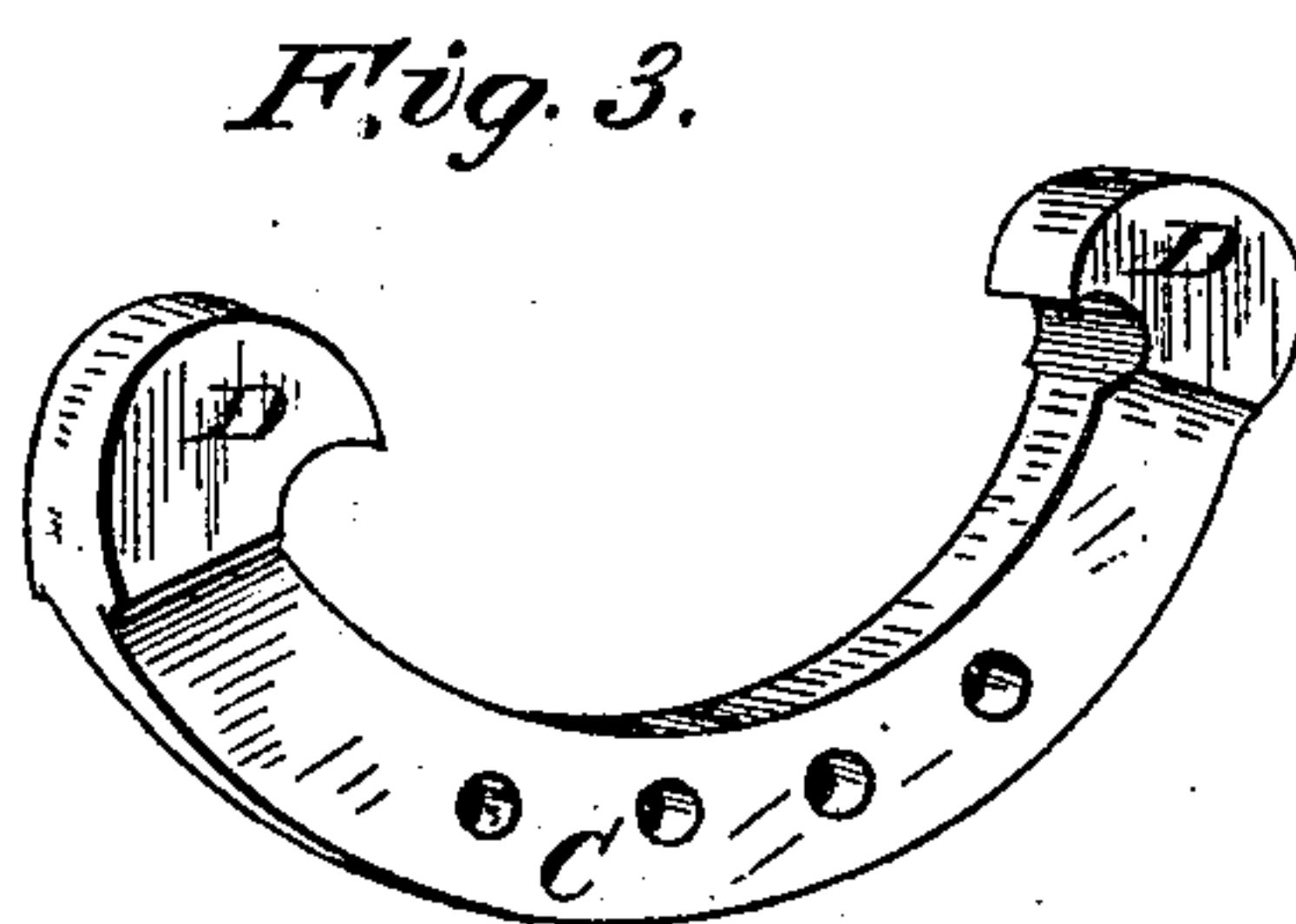
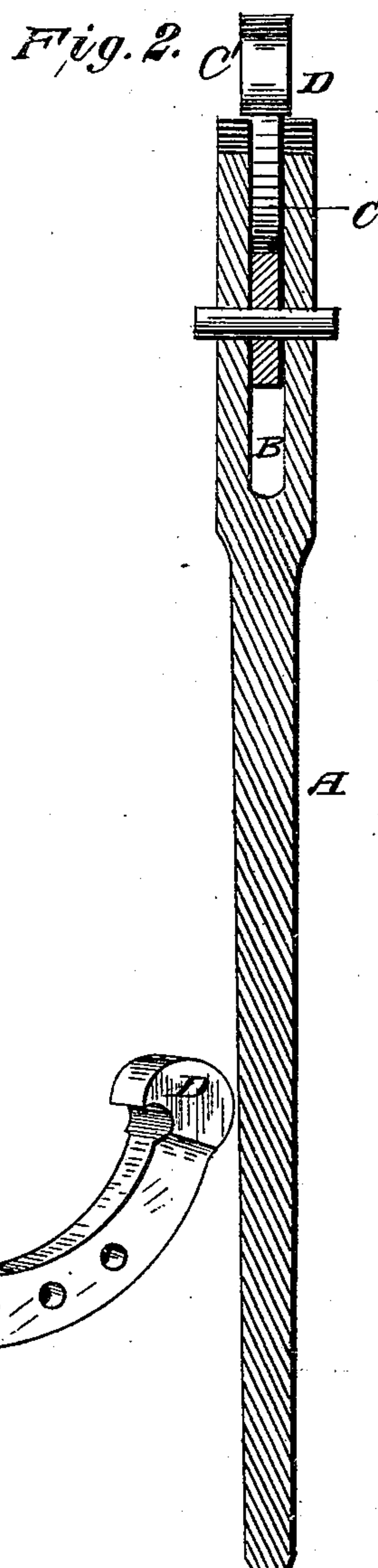
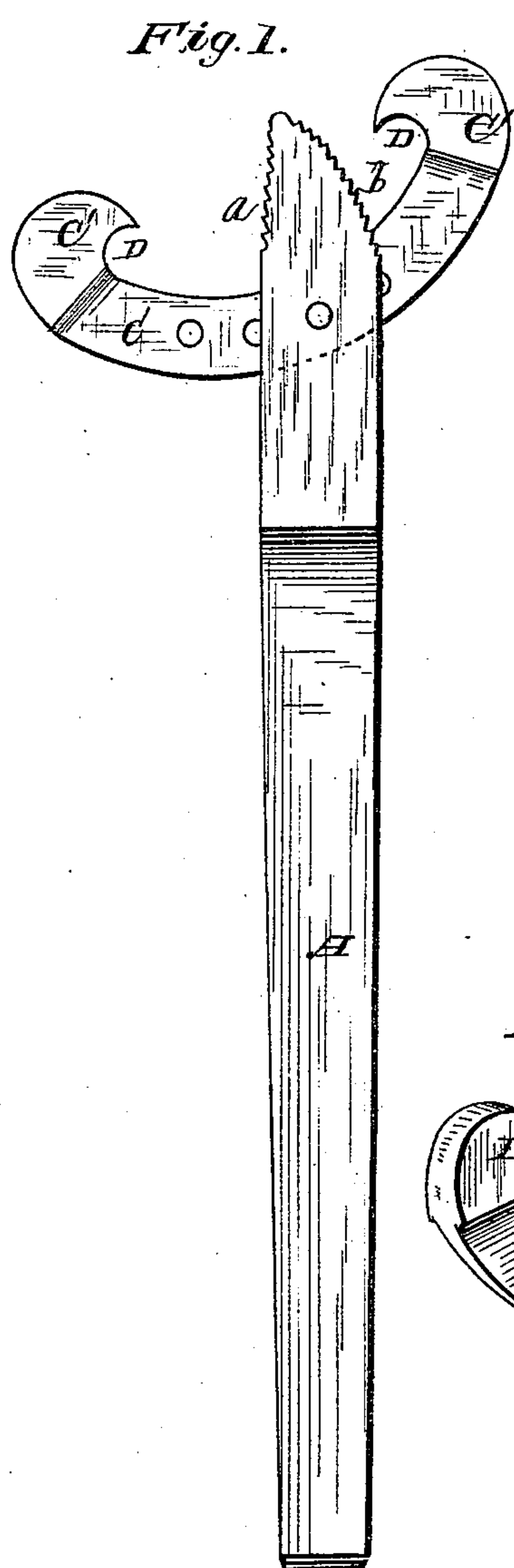
(No Model.)

J. F. PHILLIPS.

PIPE WRENCH.

No. 246,976.

Patented Sept. 13, 1881.



Witnesses:
Fred. G. Dietrich
J. R. Little

Inventor:
John F. Phillips,
by *Chas. Snow & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN F. PHILLIPS, OF GEORGETOWN, COLORADO.

PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 246,976, dated September 13, 1881.

Application filed March 9, 1880. (No model.)

To all whom it may concern :

Be it known that I, JOHN F. PHILLIPS, of Georgetown, in the county of Clear Creek and State of Colorado, have invented certain new and useful Improvements in Pipe-Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a side view; Fig. 2, a longitudinal sectional view, and Fig. 3 a view of the pivoted hook detached.

Corresponding parts in the figures are denoted by the same letters of reference.

This invention relates to pipe tongs or wrenches, and has for its object to combine strength, durability, and simplicity; and to this end it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

Referring by letter to the drawings, A designates a lever or handle, provided at its upper end with a recess, B, open at the top, in which is pivoted a curved bar or clamping-plate, C, provided at its ends with shoulders C' C', forming hooks D D.

The clamping-bar C should be pivoted a short distance from its center, as shown, thus making the hooked arms C' of unequal length; or it may be provided with several perforations, in any one of which the pivoting-pin may be adjusted. The side of the head or end of the lever which faces the short hooked arm is beveled and serrated (b) for the purpose of furnishing a firmer gripe upon pipe of small diameter, and the other straight edge, a, is also serrated to prevent slipping. The upper recessed portion of the head is enlarged, as shown, to strengthen the lever at that point, and also to increase the width of the bearing-surface against which the pipe is clamped.

The operation and advantages of my inven-

tion will be readily understood from the annexed drawings, taken in connection with the above description.

The notched head of the lever is brought to bear upon the pipe when the proper hook has been adjusted upon the latter, thus clamping it securely, when it may be turned with great facility. As soon as the pressure upon the lever is removed the hook drops off the pipe and the wrench is removed.

It is obvious that any reasonable size pipe can be operated by using my improved wrench.

I am aware of Patents No. 111,422 to O. G. Barrett, No. 191,666 to G. Fletcher, and No. 26,530 to George Smith, the two former showing a lever having a double head with transverse teeth or serrations on both its faces, and an open pivoted frame straddling said head, having curved hooks at the ends thereof, and the latter showing a recessed head in which a clamping-jaw is pivoted; but my invention has many improvements over these patents in point of construction, in mine the hooked ends of the clamping-jaw being shouldered, which gives greater bearing-surface in combination with the enlarged head of the lever, and great strength is obtained. Besides, the clamping-jaw is easily detached or adjusted, the recess in the lever being open at the top.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

As an improvement in pipe-wrenches, the combination of the clamping-plate C, made unjointed or in one piece, with both ends D D shouldered and hooked, as shown, with the lever A, having a recess, B, at its head, open at the top, in which recess the clamping-plate is pivoted, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN F. PHILLIPS.

Witnesses:

HENRY C. HARRINGTON,
DONACIANO VALDES.