

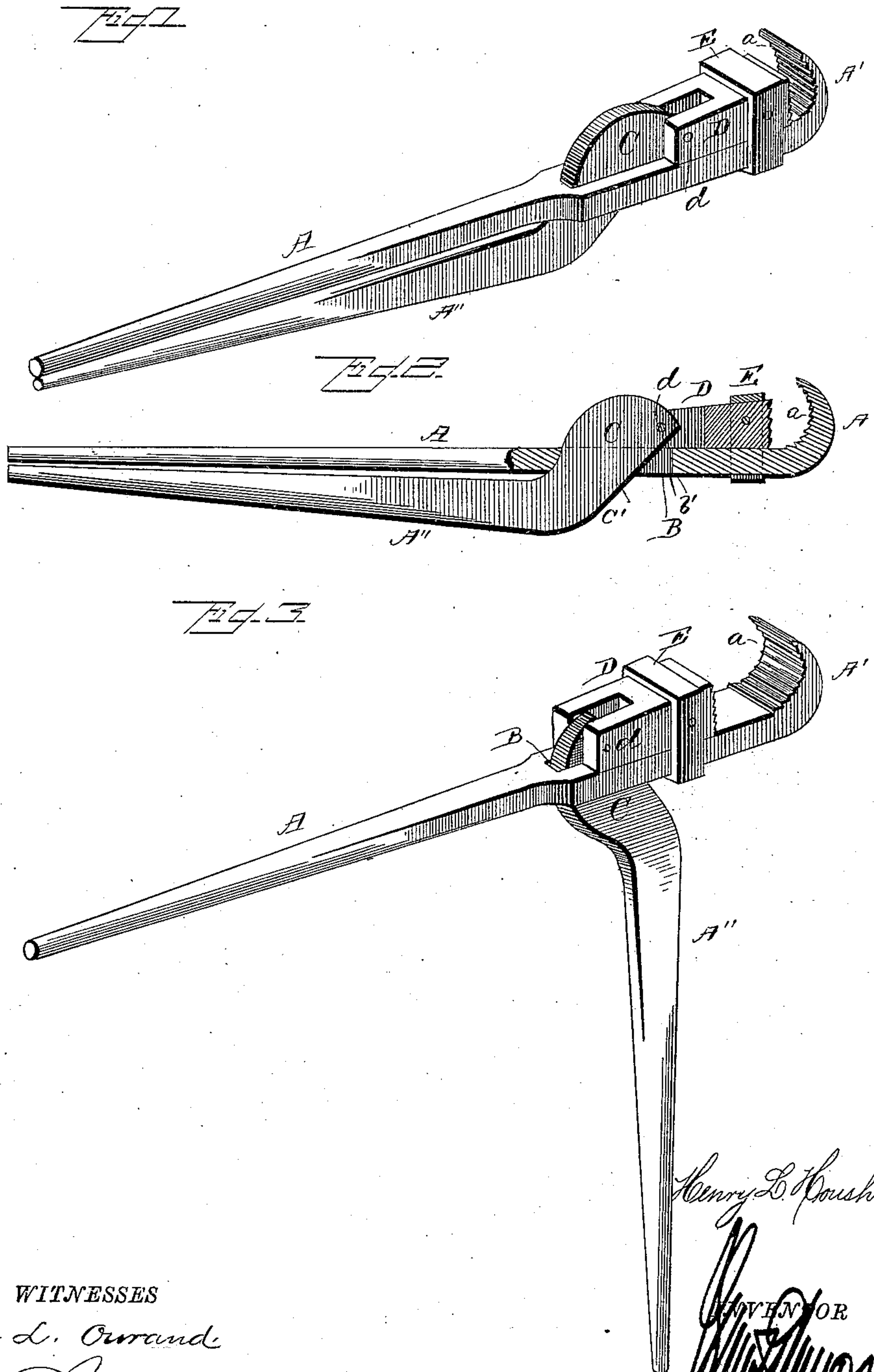
(No Model.)

H. L. HOUSHOLDER.

PIPE WRENCH.

No. 334,387.

Patented Jan. 12, 1886.



WITNESSES

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HENRY L. HOUSHOLDER, OF HEBRON, ILLINOIS, ASSIGNOR OF ONE-HALF
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PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 334,387, dated January 12, 1886.

Application filed November 5, 1885. Serial-No. 181,948. (No model.)

To all whom it may concern:

Be it known that I, HENRY L. HOUSHOLDER, a citizen of the United States of America, residing at Hebron, in the county of McHenry and State of Illinois, have invented certain new and useful Improvements in Pipe-Tongs; 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

10 which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

15 My invention relates to certain new and useful improvements in pipe-tongs; and it consists in the construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims.

20 In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of my improvement, showing the same with the jaws closed upon each other. Fig. 2 is a side view, partly in section; and Fig. 3 is a perspective view showing the jaws opened and handles separated.

A represents one handle of my improved pipe-tongs, the end of which is bent upwardly and provided with a series of ratchet-faced serrations, *a*, which are formed on the inner curved face of this bent portion, which makes one of the jaws. This portion A of the pipe-tong between the jaw A' and the handle is provided with a longitudinal slot, B, through

30 which passes the eccentric end C of the opposite handle-bar, A".

D represents a block, which is bifurcated at its rear end, and is secured to the end of the eccentric portion of the lever C by a pivoted pin, *d*. This block at its forward end is serrated, and is held upon the flat section of the member A by a bail, E, which passes around the block, and also around the flat portion of said member A. This bail is secured to the

40 block by suitable fastening devices. It will

be noted that the faces of the block D and the face of the handle or member A are perfectly flat, so that the parts can be moved over each other, and when it is desired to grasp an object the handles are placed in the position shown in Fig. 3, which will cause the block D to be moved away from the stationary jaw, the straight edge *c'* striking against the front end, *b'*, of the slot B. Now, when it is desired to move the sliding jaw toward the stationary jaw, the handles are closed upon each other, which movement causes the block D to approach the stationary jaw, the eccentric portion of the handle A" abutting against the rear end of the slot. It will be noticed that the eccentric curved portion of the member A" is such that when the handles are brought close together they will be locked upon each other.

I claim—

1. In a pipe wrench or tongs constructed substantially as described, the stationary jaw A', formed integral with the handle-bar, said member being provided between the handle and the stationary jaw with a longitudinal slot, in combination with the bifurcated sliding block D, pivotally attached to the eccentric end of the handle bar A" and bail E, substantially as shown, and for the purpose set forth.

2. In a pipe-wrench, the stationary jaw A, having a flat portion between the same and the handle, which is provided with a longitudinal slot, a sliding block attached thereto by a bail, E, and a lever having an eccentric-shaped end, which is adapted to pass through the slot B, and is pivotally connected to the sliding block D, the parts being organized substantially as shown, and for the purpose set forth.

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

HENRY L. HOUSHOLDER.

Witnesses:

HENRY R. BALDWIN,
F. E. GRATTON.