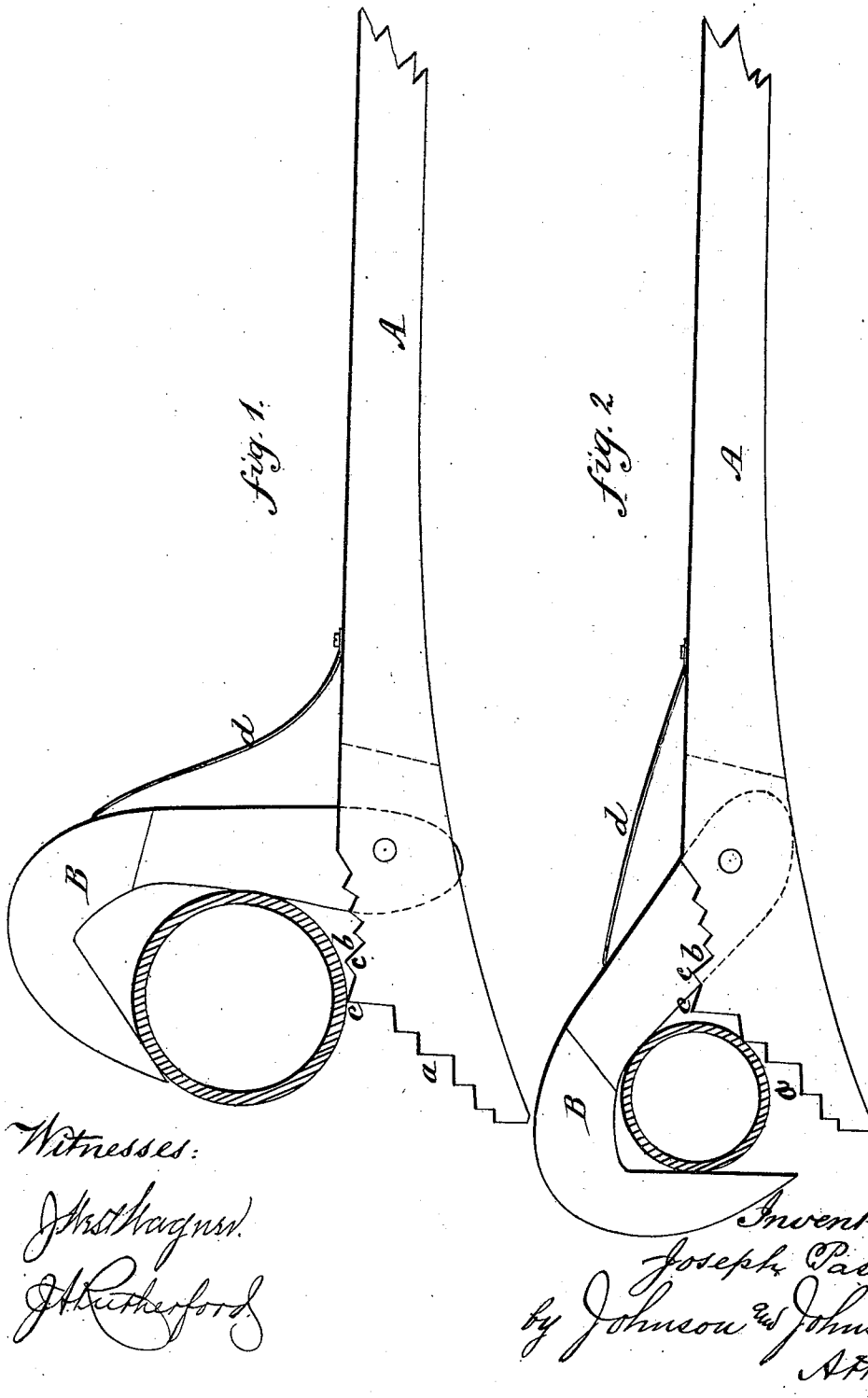


J. PASSENO.

PIPE-TONGS.

No. 179,816.

Patented July 11, 1876.



UNITED STATES PATENT OFFICE.

JOSEPH PASSENO, OF GEORGETOWN, DISTRICT OF COLUMBIA.

IMPROVEMENT IN PIPE-TONGS.

Specification forming part of Letters Patent No. **179,816**, dated July 11, 1876; application filed April 4, 1876.

To all whom it may concern :

Be it known that I, JOSEPH PASSENO, of Georgetown, in the District of Columbia, have invented a new and useful Improvement in Pipe-Tongs, of which the following is a specification :

My object is to improve that class of pipe-tongs which have a pivoted or hinged jaw; and my improvement consists in the combination, with the short pivoted and hooked jaw and a spring bearing thereon, of the handled jaw, having a gripping-surface in line with its inner side, provided with teeth, and having an angularly-retreating gripping-surface, bearing teeth, the angularly-gripping surface being adapted for the smallest pipes, while the gripping-surface on a line with the handled jaw is adapted for the larger pipes.

The accompanying drawings represent the tongs as adapted for use, with their separate and distinct gripping-surfaces for large and small pipes.

The handled jaw A is slotted to receive the short pivoted jaw B, and to allow of its opening and closing in the usual manner. The end of the handled jaw has an angular toothed face, *a*, and is adapted for use to hold various sizes of small pipes in connection with the pivoted jaw. I form in connection with this angular toothed face *a* a separate and distinct gripping-surface, *b*, on a line, or nearly so, with that side of the handled jaw at

which the movable jaw opens, and is designed to receive various sizes of the larger pipe.

At the inner end termination of gripping-surface *a* and the outer commencement of gripping-surface *b*, I form prominent holding-teeth *c*, whereon the larger pipes are gripped by the pivoted jaw, as shown in Figure 1. For this purpose the pivot of the jaw must be sufficiently far back from the handled jaw to give space enough to catch the larger pipes between the angular end of the pivoted jaw and the points *c*, in which case the shank of the pivoted jaw also acts as a bearing-surface. A spring, *d*, is arranged to bear upon the back of the movable jaw to keep it in place for ready use.

I claim—

The combination, with the short pivoted and hooked jaw B and spring *d*, of the handled jaw A, having a gripping-surface in line with its inner side, provided with teeth *c*, and having an angular retreating gripping-surface bearing the teeth *a*, as and for the purpose set forth.

In testimony whereof I have affixed my signature in the presence of two witnesses.

JOSEPH PASSENO.

Witnesses:

A. E. H. JOHNSON,
J. A. RUTHERFORD.