

J. R. BROWN.

PIPE-TONGS.

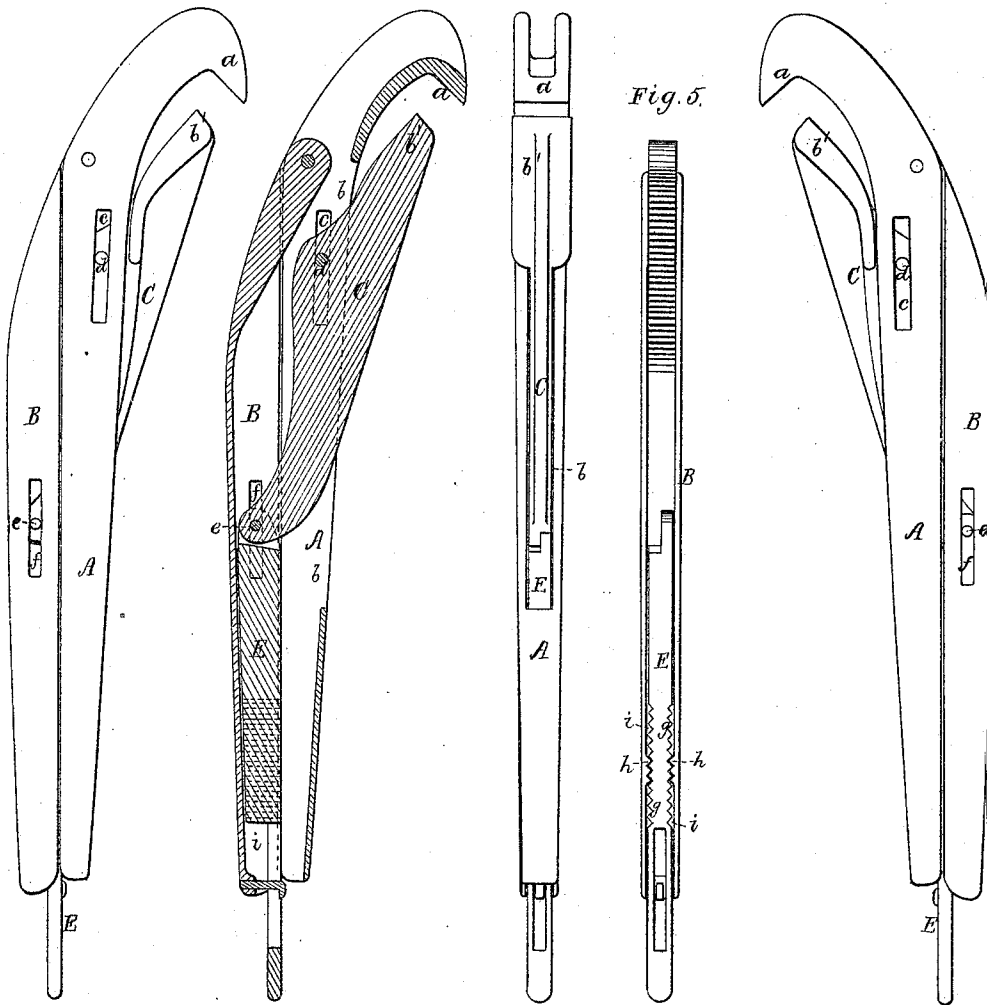
No. 172,550.

Patented Jan. 25, 1876.

Fig. 1.

Fig. 3. Fig. 4.

Fig. 2.



Witnesses

S. W. Piper

L. M. Muller

James R. Brown

by his attorney

R. W. Hedy

UNITED STATES PATENT OFFICE.

JAMES R. BROWN, OF CAMBRIDGEPORT, ASSIGNOR TO ELIZA A. CLOUDMAN,
OF LYNN, MASSACHUSETTS.

IMPROVEMENT IN PIPE-TONGS.

Specification forming part of Letters Patent No. **172,550**, dated January 25, 1876; application filed
November 9, 1875.

To all whom it may concern:

Be it known that I, JAMES R. BROWN, of Cambridgeport, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Pipe Tongs or Wrenches; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figures 1 and 2 are opposite side views, Fig. 3 a longitudinal section, and Fig. 4 a front-edge view, of a pipe tongs or wrench of my improved kind, it being composed of a hooked and slotted lever, a fulcrum-lever, and a toothed lever, all being constructed, combined, and arranged substantially as shown and hereinafter described.

In such drawings, A denotes the hook-jaw lever, provided with a hook-jaw, *a*, and pivoted or jointed near the same to a fulcrum-lever, B. The shank of the lever A is slotted lengthwise, as shown at *b*, to receive the toothed-jaw lever C, which, extending through the slot, is furnished with a jaw, *b'*, and at its lower end should be pivoted directly to the fulcrum-lever, or to an adjustable slide, E, arranged therein. Furthermore, the hook-jaw lever has other slots *c c* disposed in it, as shown, they being to receive a pin or studs, *d d*, projecting from the tooth-jaw lever. In case of the fulcrum *e* of the tooth-jaw lever being adjustable, it is to extend into slots *f f*, made in the fulcrum-lever, which is to be

grooved or hollowed to receive the tooth-jaw lever. The adjustable fulcrum carrier or slide E should be provided with means of adjusting it lengthwise in the fulcrum-lever. Such means may be a screw or screws, or may consist of ranges or racks *g g* of teeth, to co-operate with similar ranges or racks *h h*, these latter being projected from the sides of the recess or groove *i* for reception of the slide, the ranges *g g* being on the contiguous sides of the slide.

Fig. 5 is an inner side view of the slide and the fulcrum-lever, showing their ranges of teeth.

By pulling the slide laterally out of the lever, and moving such slide endwise, the fulcrum of the tooth-jaw lever may be adjusted so as to bring the tooth-jaw nearer to or farther from the hook-jaw, as occasion may require. By taking hold of the tails of the two levers A and B, and drawing them apart, the jaws will be forced asunder, having been closed together or upon a pipe by an opposite movement of the said tails.

I claim as my invention—

The pipe tongs or wrench composed of the hooked and slotted lever A, the fulcrum-lever B, and the tooth-jaw lever C, arranged and applied substantially as described.

JAMES R. BROWN.

Witnesses:

R. H. EDDY,
J. R. SNOW.