V. K. McElheny,

Pipe Wrench.

No. 95,706. Patented Oct. 12. 1869.

Fig. 1.

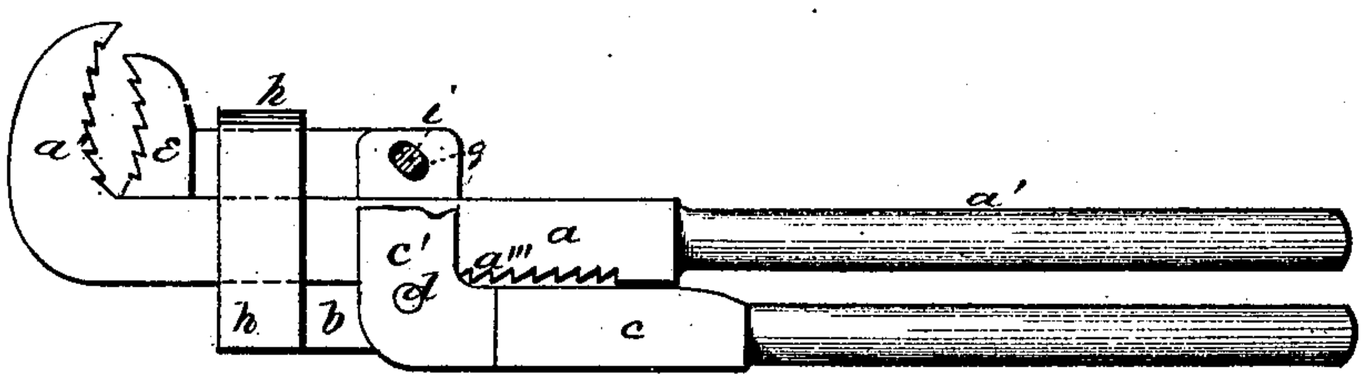


Fig. 2.

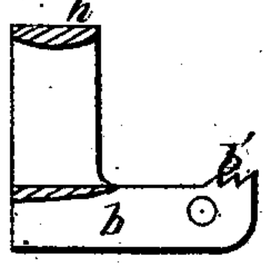
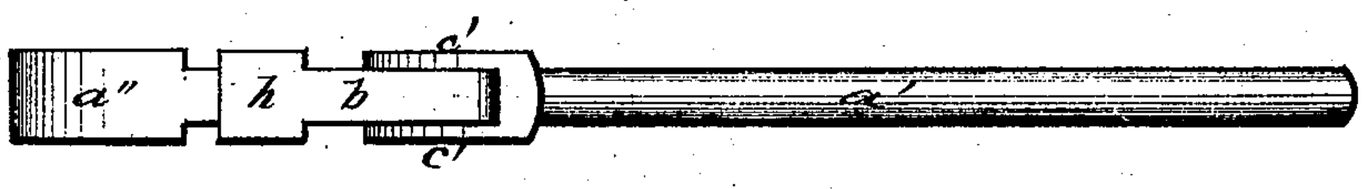


Fig. 3.

Fig. 4.



Witnesses:

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Letters Patent No. 95,706, *dated October* 12, 1869.

IMPROVEMENT IN COMBINED PIPE-TONGS AND WRENCH.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, V. K. McELHENY, of Pittsburg, in the county of Allegheny, and State of Pennsylvania, have invented a new and improved Combined Pipe-Tongs and Wrench; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal section of the whole instrument;

Figure 2, a similar view of the band and pawl;

Figure 3, a transverse section, made just in front of the band; and

Figure 4, a top or edge view.

This invention consists in combining, with a main stem, having a fixed jaw at one extremity and a handle at the other, a movable jaw held by a band upon one side of said stem, and a lever, with a sliding fulcrum, for operating said movable jaw, upon the opposite side of said stem, the several parts being so arranged that the closing of the handles fixes the sliding fulcrum and forces the movable jaw forward toward the fixed jaw, the pin which connects the lever with the movable jaw passing through an oblique slot in the latter, by which means the operator is enabled to graduate the pressure brought to bear upon the pipe or nut.

In the drawings—

a is the main stem, having a handle *a'*, at one extremity, and a fixed jaw, *a''*, at the other.

The other jaw *e* is movable, and slides on one side of *a*, being guided by a connecting-band, *h*, and actuated by a lever, *c*, the main portion of which is on the opposite side of the stem *a*, and is provided with two horns *c' c'*, between which the stem lies, and which are connected with the rear end of the movable jaw *e*, by a pin, *i*, passing through an oblique slot, *g*.

Said horns are also connected, by a pin, *d*, on the opposite side of *a* from the movable jaw, with a pawl, *b*, rigidly affixed to the lower part of the sliding band *h*, said pawl having teeth at its rear end and upper side.

The stem *a* has corresponding teeth *a'''* in its lower side.

As long as the handles are open, the stem *a''* may be moved in its guide-way independent of the lever *c*.

The closing of the handles brings the teeth *b'* into connection with the teeth *a'''*, and thus fixes the fulcrum of the lever *c*.

The same movement throws the jaw *e* forward toward the jaw *a''*, and against any object that may be placed between the jaws.

The oblique slot *g* enables the operator to exert more or less pressure in jamming the pipe or nut, according to the force with which he draws the handles together.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The arrangement of the main stem *a* with the movable jaw *e*, oblique slot *g*, pawl *b*, band *h*, and lever *c*, substantially as described.

V. K. McELHENY.

Witnesses:

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