

S. LYNCH.
Pipe Tongs.

No. 102,690.

Patented May 3, 1870.

Fig: 1.

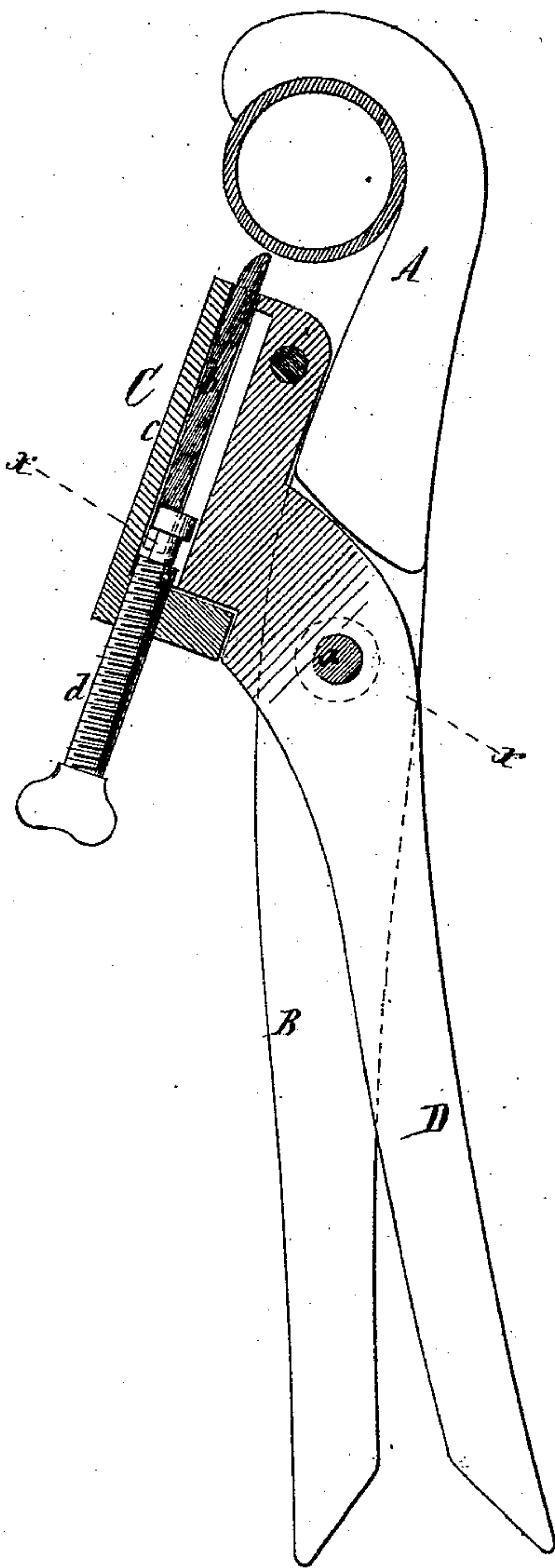


Fig: 3.

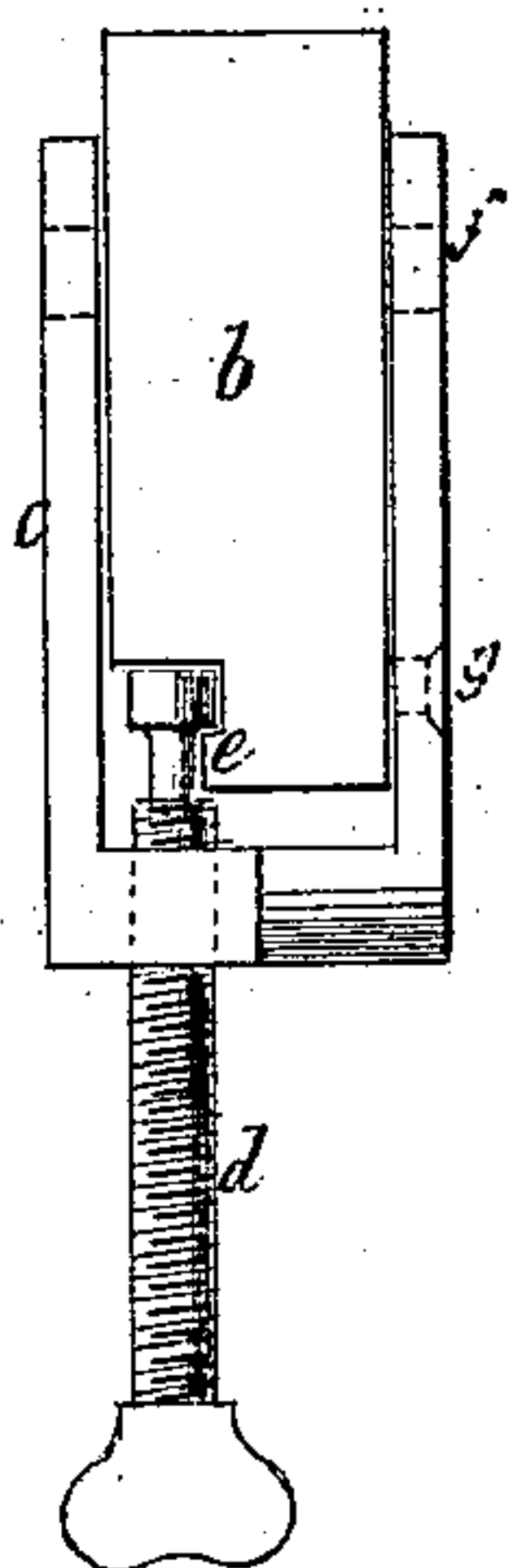
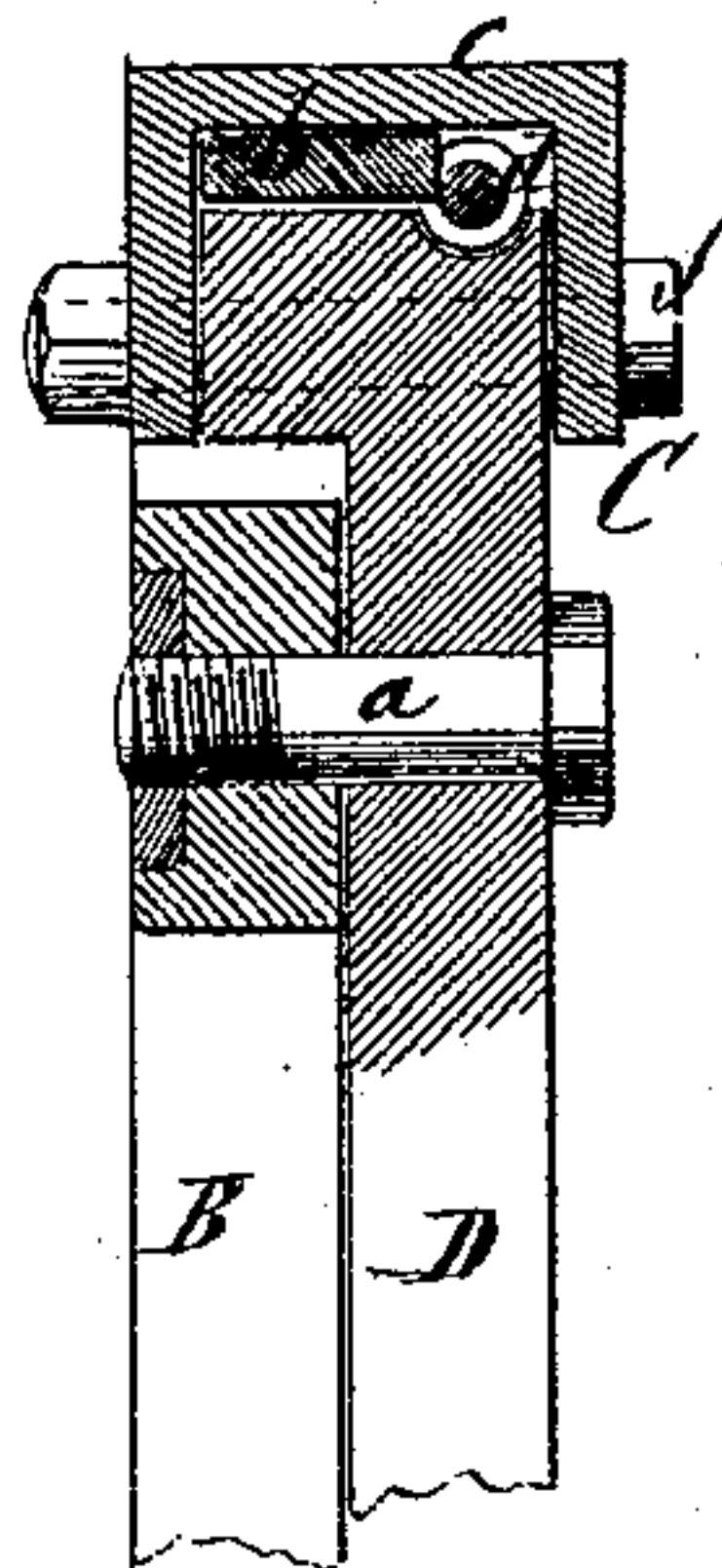


Fig: 2.



Witnesses:

C. W. H. W. H. W.

Prothonotary

Inventor:

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per

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attys

United States Patent Office.

STEPHEN LYNCH, OF NEW YORK, N. Y.

Letters Patent No. 102,690, dated May 3, 1870.

IMPROVEMENT IN PIPE-TONGS.

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, STEPHEN LYNCH, of the city, county, and State of New York, have invented a new and useful Improvement in Pipe-Tongs; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a sectional side elevation of this invention.

Figure 2 is a transverse section of the same, the line *x x*, fig. 1, indicating the plan of section.

Figure 3 is a detached inside view of the box containing the slide-bit.

Similar letters indicate corresponding parts.

This invention relates to a pipe-wrench, the adjustable jaw of which is composed of a slide-bit fitted into a guide-box, and provided with a set-screw, which is connected to the slide-bit in such a manner that it imparts to the same a positive motion in either direction, the guide-box with its bit being attached to one of the jaws of a pair of tongs, the other jaw of which is hook-shaped, like that of ordinary pipe-tongs, in such a manner that the bit of the tongs can be set to suit the different sizes of pipes; and, furthermore, if the bit becomes broken or worn out, it can be readily taken out and repaired or replaced by another, and the efficiency of the pipe-tongs can be easily kept at its maximum point without much trouble or expense.

In the drawing the letter A designates a hook-shaped jaw, which is formed at the outer end of the handle B, and connected to the adjustable jaw, being secured to the outer end of the handle D.

Said adjustable jaw consists of a bit, *b*, which is fitted into a box, *c*, and subjected to the action of a

screw, *d*, so that by turning said screw the bit is moved in and out.

The screw is tapped into the bottom end of the box *c*, and its tip is provided with an annular groove to admit a toe, *e*, formed at the inner end of the slide-bit, (see fig. 3,) so that by turning the screw a positive motion can be imparted to the slide-bit in either direction, while said screw retains the bit firmly in any position into which it may be brought.

The box *c* is attached to the outer end of the handle D by means of screws *f g*, so that it can be readily taken off, and that easy access can be had to the sliding-bit whenever it should be desirable to repair or to renew the same.

It is obvious that the box *c* can be made of cast-iron, while the bit will by preference be made of steel, and the other parts of the tongs either of steel or of wrought iron.

The bit ought to be tempered, so that its point will not be liable to wear off or become dull when brought in contact with the pipes.

By these means, a pair of pipe-tongs is obtained which can be readily adjusted for pipes of different sizes, and the bit of which can be readily kept in proper working order.

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

The box *c*, connected to the outer end of the handle D of a pair of pipe-tongs, and forming the guide for a slide-bit *b*, substantially as herein shown and described.

STEPHEN LYNCH.

Witnesses:

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WM. N. REED.