

T. Marshall,

Gas Pipe Vise.

No. 106,380.

Patented Aug. 16, 1870.

Fig. 1

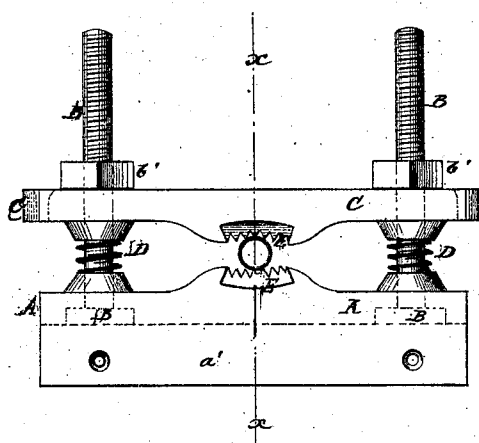
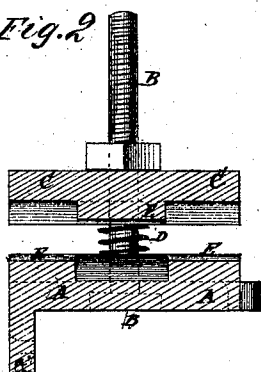


Fig. 2



Witnesses:

J. W. Almyer
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Inventor:

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PER *[Signature]*
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United States Patent Office.

THOMAS MARSHALL, OF PATERSON, NEW JERSEY.

Letters Patent No. 106,380, dated August 16, 1870.

IMPROVED PORTABLE GAS-PIPE VISE.

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, THOMAS MARSHALL, of Paterson, in the county of Passaic and State of New Jersey, have invented a new and useful Improvement in Portable Gas-pipe Vise; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to accompanying drawing forming part of this specification.

Figure 1 is a front view of my improved vise.

Figure 2 is a detail cross-section of the same, taken through the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved portable vise for holding gas-pipes while being cut off, or having screw-threads cut upon their ends, and which shall be so constructed that the workman can conveniently carry it in his bag, and which may be readily attached to a bench, table, or other support; and

It consists in the construction and combination of the various parts of the vise, as hereinafter more fully described.

A represents the base-plate of the vise, which is made with a downwardly-projecting flange, *a'*, upon its forward edge to overlap the front of the bench or other support.

The rear part of the plate A and flange *a'* have holes formed through them to receive the screws by which the vise is secured in place.

B are bolts, which pass up through holes in the end parts of the base-plate A, and the heads of which are countersunk into the lower side of said plate A.

C is the top plate of the vise, which has holes

formed through it near its ends for the passage of the bolts B.

The plate C is forced down upon the plate A to clamp the pipe to be held by the nuts *b'*, screwed upon the bolts B above the plate C.

When the nuts *b'* are loosened to release the pipe, the plate C is raised and held up by the springs D, coiled around the bolts B, as shown in figs. 1 and 2.

In the adjacent faces of the plates A C, across their middle parts, are formed dovetailed grooves, in which are placed the jaws E, the faces of which are made slightly concaved, and are toothed, as shown in the drawing, to enable them to take a firm hold upon the pipe.

I prefer to use three jaws E, two in the groove in the lower plate A, near its front and rear edges, and one in the groove in the upper plate C, over the space between the two lower jaws, as shown in fig. 2. This construction enables the pipe to be held securely and firmly, and at the same time produces a vise that the workman can conveniently carry with him in his bag, and readily attach to any convenient support.

Having thus described my invention,

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

An improved portable pipe-vise, formed by the combination of the flanged plate A *a'*, bolts and nuts B *b'*, top plate C, springs D, and jaws E with each other, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me this 8th day of June, 1870.

THOMAS MARSHALL.

Witnesses:

GEO. W. MABEE,
JAMES T. GRAHAM.