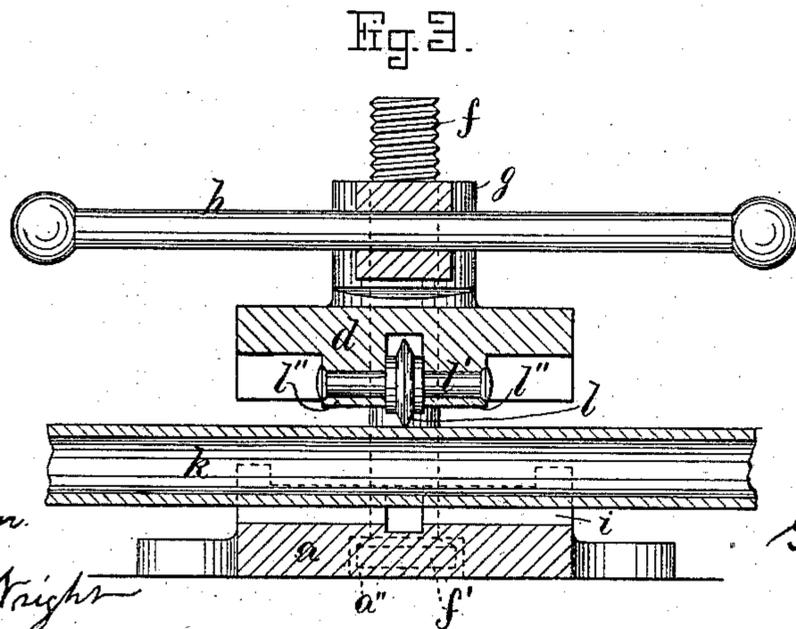
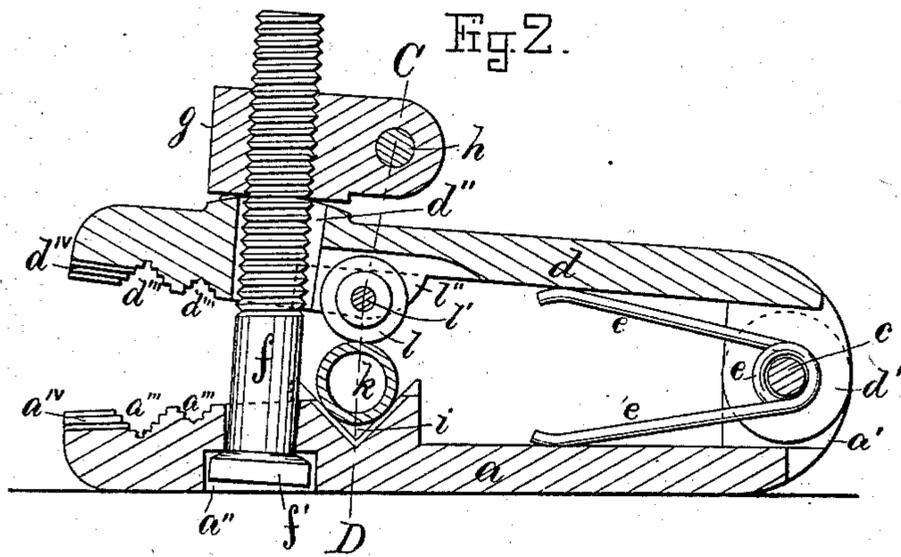
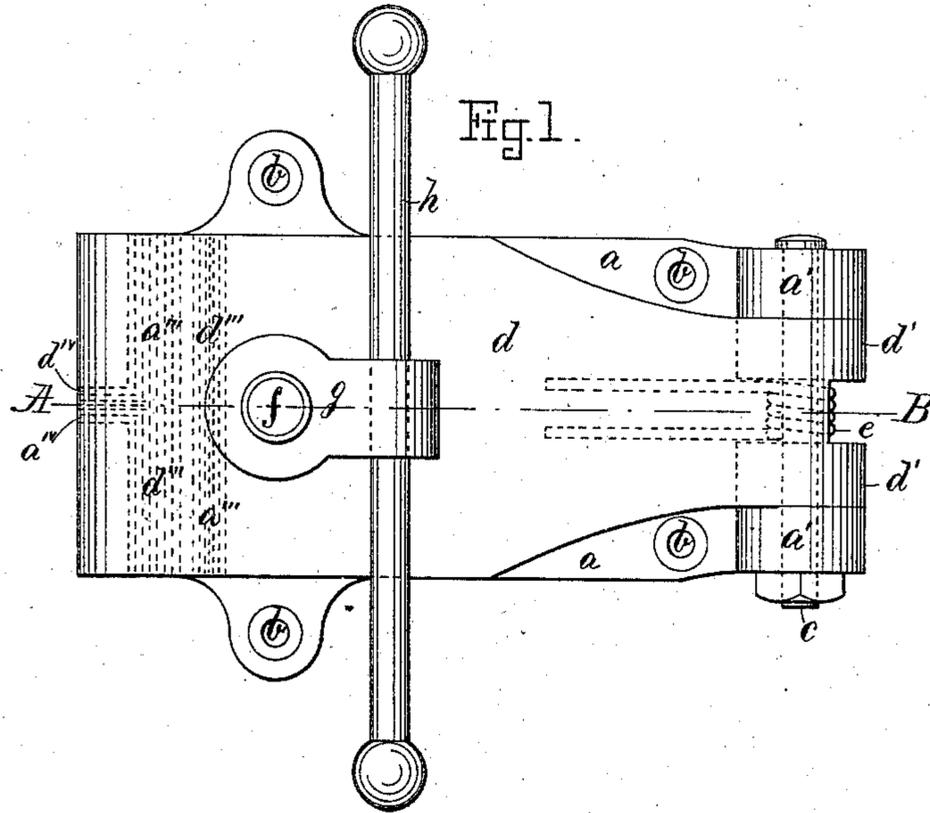


(No Model.)

G. W. GLAZIER.
Portable Pipe Vice and Cutter.

No. 241,534.

Patented May 17, 1881.



Witnesses.

Henry Chadbourne.

Marshall W. Wright

Inventor.

George W. Glazier.
by Edward Andrus
his atty.

UNITED STATES PATENT OFFICE.

GEORGE W. GLAZIER, OF SALEM, ASSIGNOR OF ONE-HALF TO JAMES
RODIE, OF PEABODY, MASSACHUSETTS.

PORTABLE PIPE VISE AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 241,534, dated May 17, 1881.

Application filed April 8, 1881. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. GLAZIER, a citizen of the United States, residing at Salem, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Portable Pipe Vises and Cutters; and I do hereby declare that the same are fully described in the following specification and illustrated in the accompanying drawings.

This invention relates to improvements in portable pipe-vises; and it consists of a pipe vise and cutter combined, it being carried out as follows, reference being had to the accompanying drawings, on which—

Figure 1 represents a plan view. Fig. 2 represents a longitudinal section on the line A B, shown in Fig. 1. Fig. 3 represents a cross-section on the line C D, shown in Fig. 2.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a represents the lower jaw of the vise, provided with bolt-holes *b b b b*, by means of which and suitable screws or bolts it can be secured to a bench or other object in a horizontal or vertical position, as may be most convenient for the work. At the rear of the stationary jaw *a* it is provided with ears *a' a'*, which are hinged by means of the hinge-pin *c* to the ears *d' d'* of the movable jaw *d*, as shown.

e is a coiled spring arranged between the jaws *a d*, to automatically keep them in an expanded position, as shown.

f is a screw-threaded bolt, having its head *f'* resting loosely in a suitable recess, *a''*, in the lower jaw, *a*, as shown, and having its upper screw-threaded end projecting up through a perforation, *d''*, in the movable jaw *d*, as shown.

g is a nut fitting around the screw-threaded part of the screw-bolt *f*, and *h* is a handle to turn the nut *g* with, as usual.

a''' a''' are serrated grooves on the inside of the stationary jaw *a*, and *d''' d'''* are similar and correspondingly-serrated grooves on the inside of the movable jaw *d*, between which the desired pipe can be held for the purpose

of cutting a thread thereon, or for other purposes, as may be desired. For holding small pipes in position, on which it may be necessary to cut a thread close up to the place where they are held in the vise, I provide the jaws *a* and *d* with serrated grooves *a^{iv}* and *d^{iv}* at right angles to the grooves *a'''* and *d'''*, as shown in Fig. 2, and also in dotted lines in Fig. 1.

The pipe-cutter is carried out as follows: A V-shaped groove or pipe-rest, *i*, is made on the inside of the stationary jaw *a*, as shown in Figs. 2 and 3, in which the pipe *k* that is being cut is laid, as shown.

l is a loosely-journaled circular cutter, arranged upon the pin *l'*, inserted through the lugs or bearings *l'' l''* on the inside of the movable jaw *d*, as shown in Figs. 2 and 3.

In using the vise as a pipe-cutter, it is only necessary to lay the pipe in its proper position in the V-shaped groove *i*, as shown, and to screw down the movable jaw *d* until the cutter-wheel *l* is brought in contact with the pipe, which is then turned round, and as the cutter *l* makes an incision around the pipe the movable jaw *d* is gradually screwed down until the pipe is cut through.

The tool, as hereinabove described, is a very convenient one for pipe-fitters and others, as it is both a pipe-vise and pipe-cutter in one and the same tool. It is light and portable, and can easily be secured in any desired or convenient position.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

The herein-described combined pipe vise and cutter, consisting of the serrated jaws *a* and *d*, hinged at *c*, and provided with the pipe-rest *i* and loosely-journaled cutter-wheel *l*, the screw *f*, nut and handle *g h*, and spring *e*, as and for the purpose set forth.

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

GEORGE W. GLAZIER.

Witnesses:

ALBAN ANDRÉN,
E. E. TORREY.