

M. Prentiss.

Vise.

Nº 75576

Patented Mar. 17, 1868.

Fig. 1

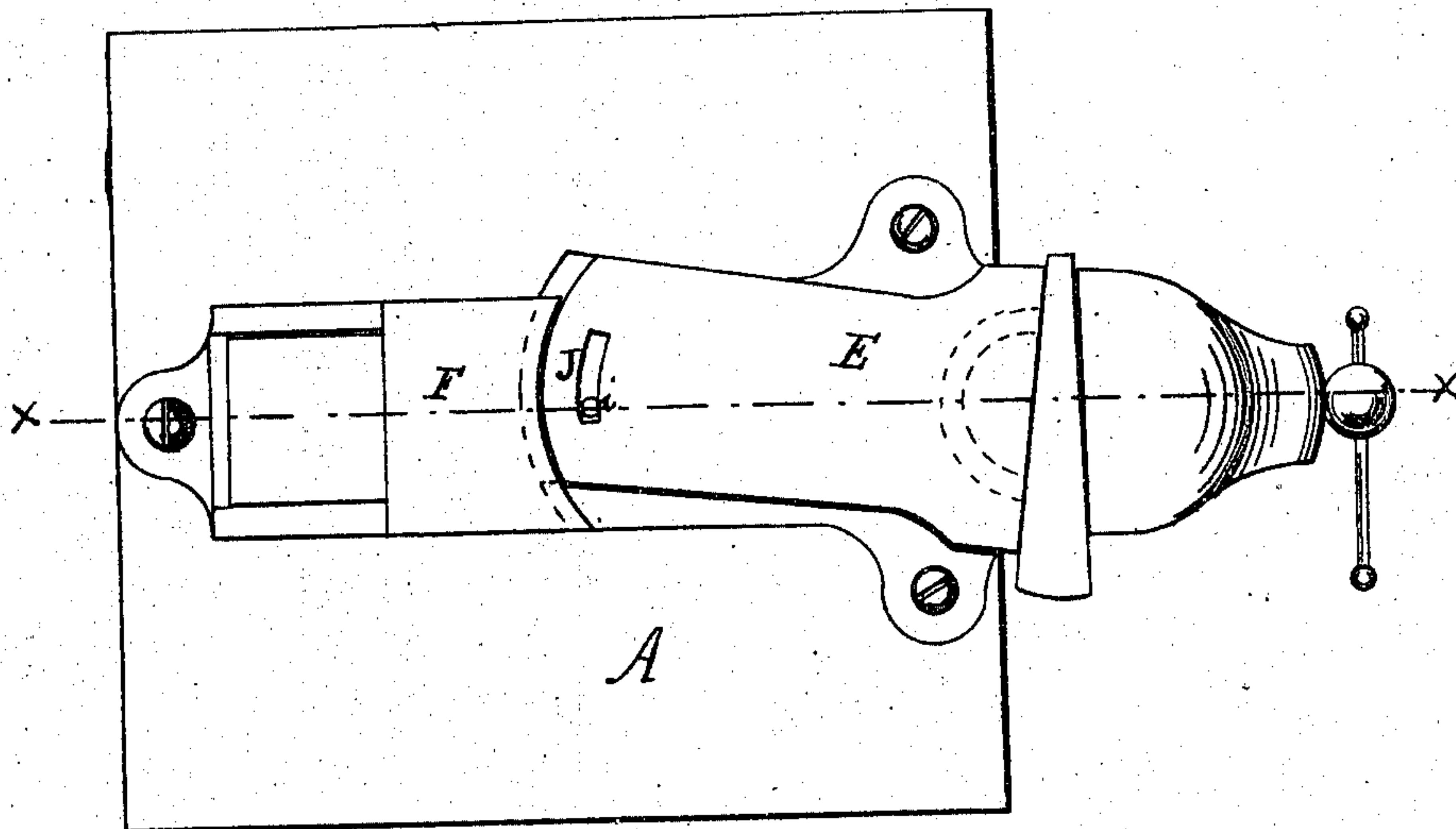
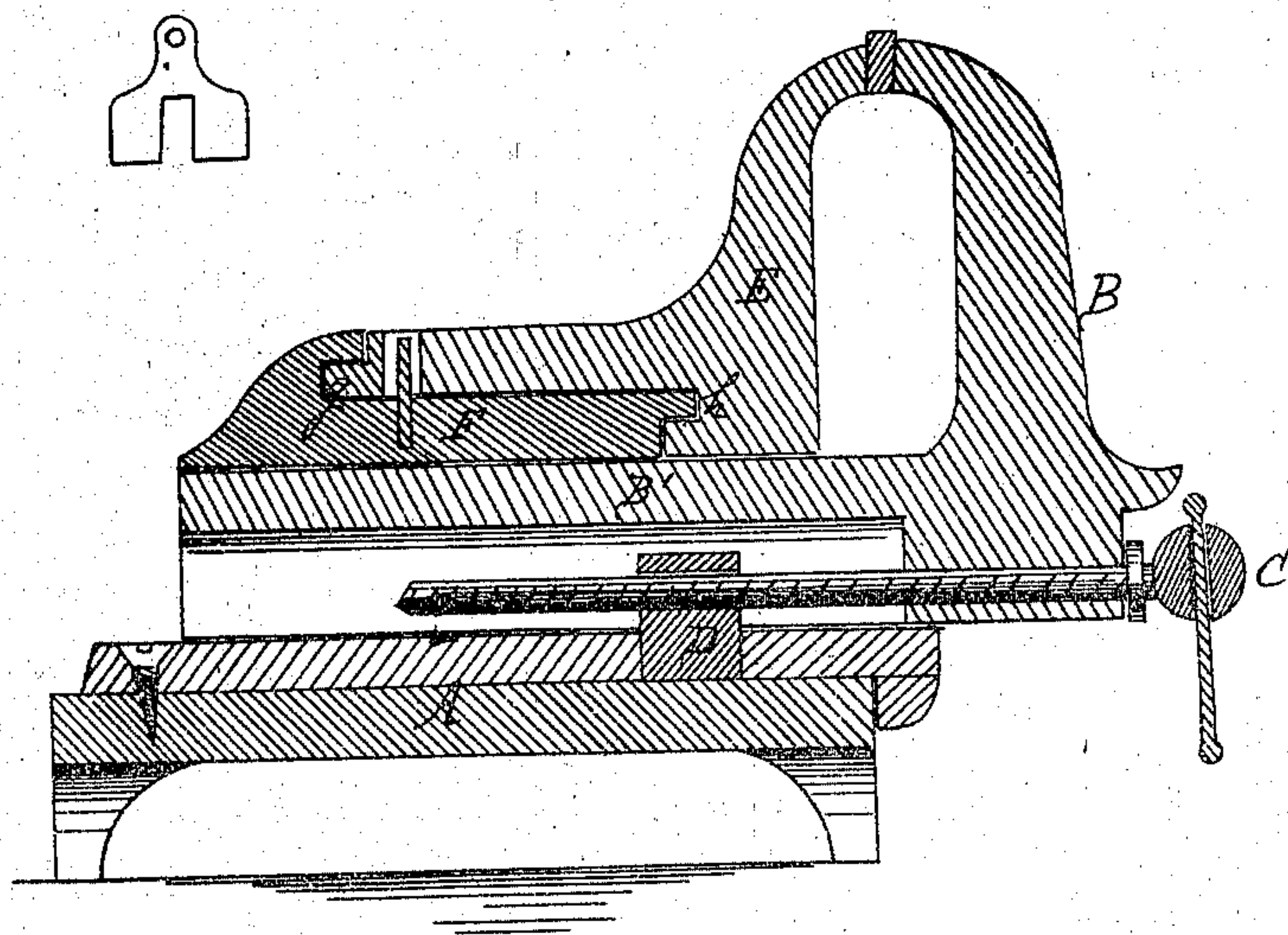


Fig. 3.

Fig. 2.



Witnesses
W. C. Asakett
Wm A Morgan

Inventor
M. Prentiss
per J. M. [Signature]
attorneys

United States Patent Office.

MASON PRENTISS, OF CAMBRIDGE, NEW YORK.

Letters Patent No. 75,576, dated March 17, 1868.

IMPROVEMENT IN VISES.

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, MASON PRENTISS, of Cambridge, in the county of Washington, and State of New York, have invented a new and useful Improvement in Vises; and I do hereby declare that the following is 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 drawings forming part of this specification.

This invention relates to a new and useful improvement in vises for holding either iron or wood-work; and it consists in an arrangement whereby the back jaw of the vise is made adjustable, so that tapering or wedge-shaped pieces of iron or wood may be held between the two jaws, as will be hereinafter more fully described.

Figure 1 represents a top view of the vise attached to a bench.

Figure 2 is a vertical section of the same through the line *x x*.

Similar letters of reference indicate corresponding parts.

A represents the bench to which the vise is attached; B is the outer jaw, to which is attached the vise-screw, by which it is moved back and forth in the usual manner; C is the screw, and D is the nut, which nut is stationary on the bench or bed of the vise; E is the back jaw; F is the body of the vise, which receives the shaft B' of the outer jaw. The jaw E rests upon the top of F, and is attached to F, as seen in sectional drawing, fig. 2. There is a half circle on the under side of the jaw, (as indicated by the dotted lines in fig. 1,) upon which the jaw turns. By thus arranging the jaw to turn on a large circle instead of on a pivot, the adjustment is much more perfectly made, and the utility and durability of the vise greatly increased. The back portion of this adjustable jaw is rebated so as to fit a groove in the bed, as seen at *g*, and the circle at *h* is secured to the front part of the bed in a similar manner. J represents a circular slot through the back part of the jaw E, and *i* is a stationary pin, which is fast to F, and which passes through the slot.

Figure 3 is a key, which is dropped over the pin in the slot when it is desired to hold the jaws of the vise parallel.

The pin *i* may extend up and have a nut and washer upon it, if necessary, to hold the jaw firmly in any desired position.

It is designed to make this vise of cast iron or other suitable metal, and by the adjustment of the back jaw, as described, the vise will be found quite as durable as with the ordinary fixed jaw, and much more useful, especially in machine-shops, where it is so frequently necessary to hold tapering keys and other tapering and irregularly-formed articles.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The improved vise herein described, its several parts being constructed and arranged substantially as set forth.

MASON PRENTISS.

Witnesses:

BENJAMIN HALL,

ELLERY S. ROBERTSON.