

I. C. Tate,

Vise.

No. 67,685.

Patented Aug. 13, 1867.

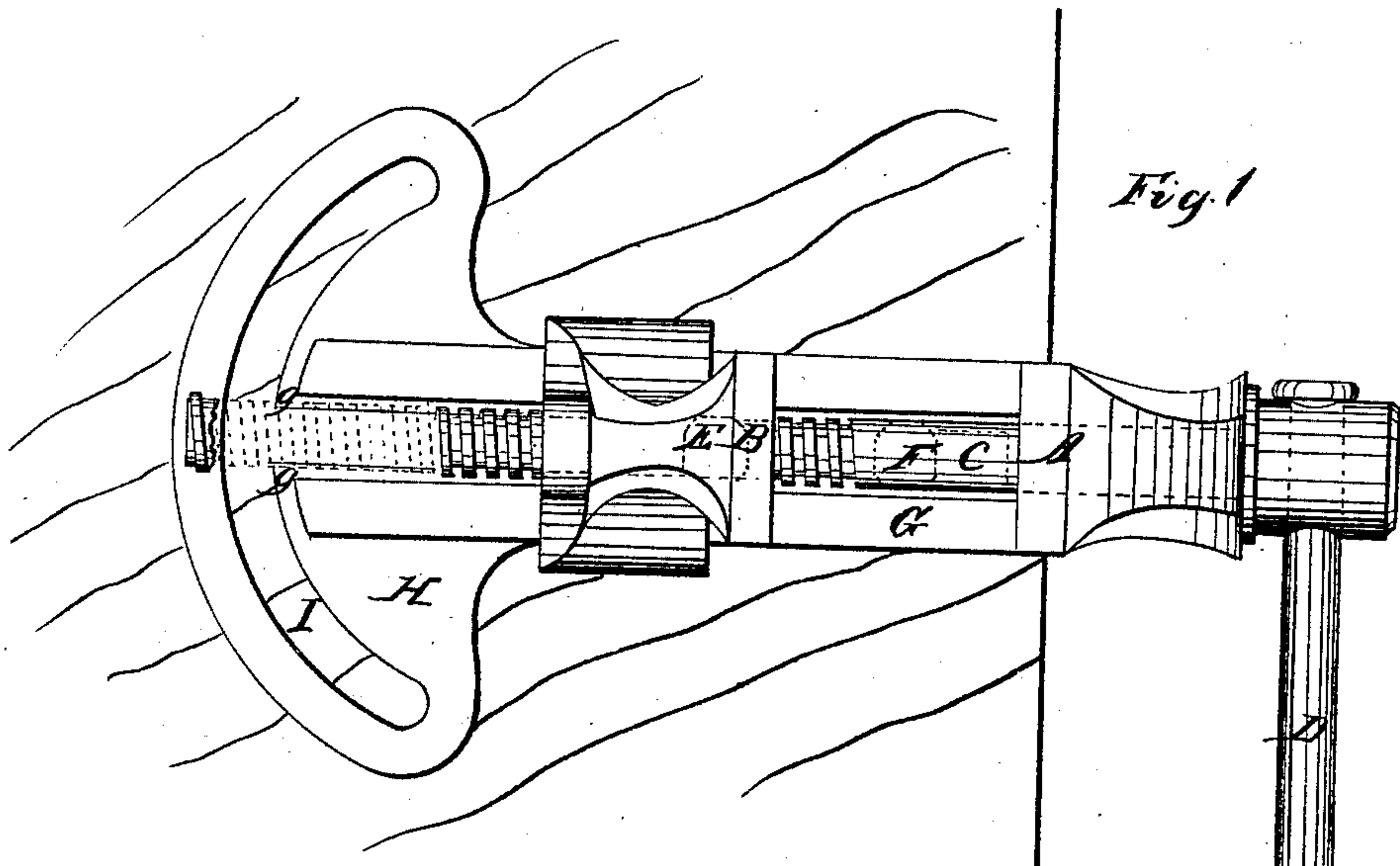


Fig. 1

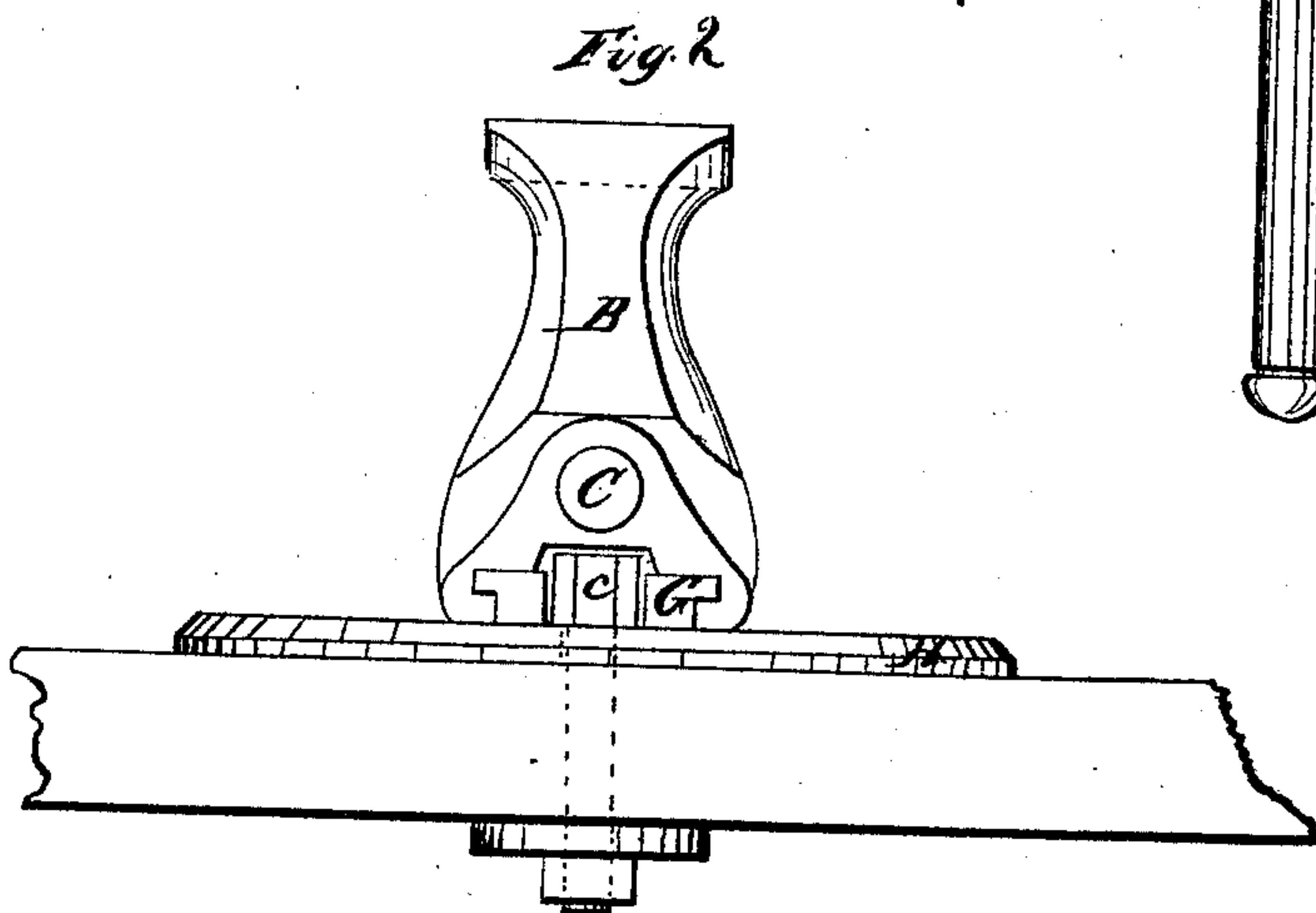


Fig. 2

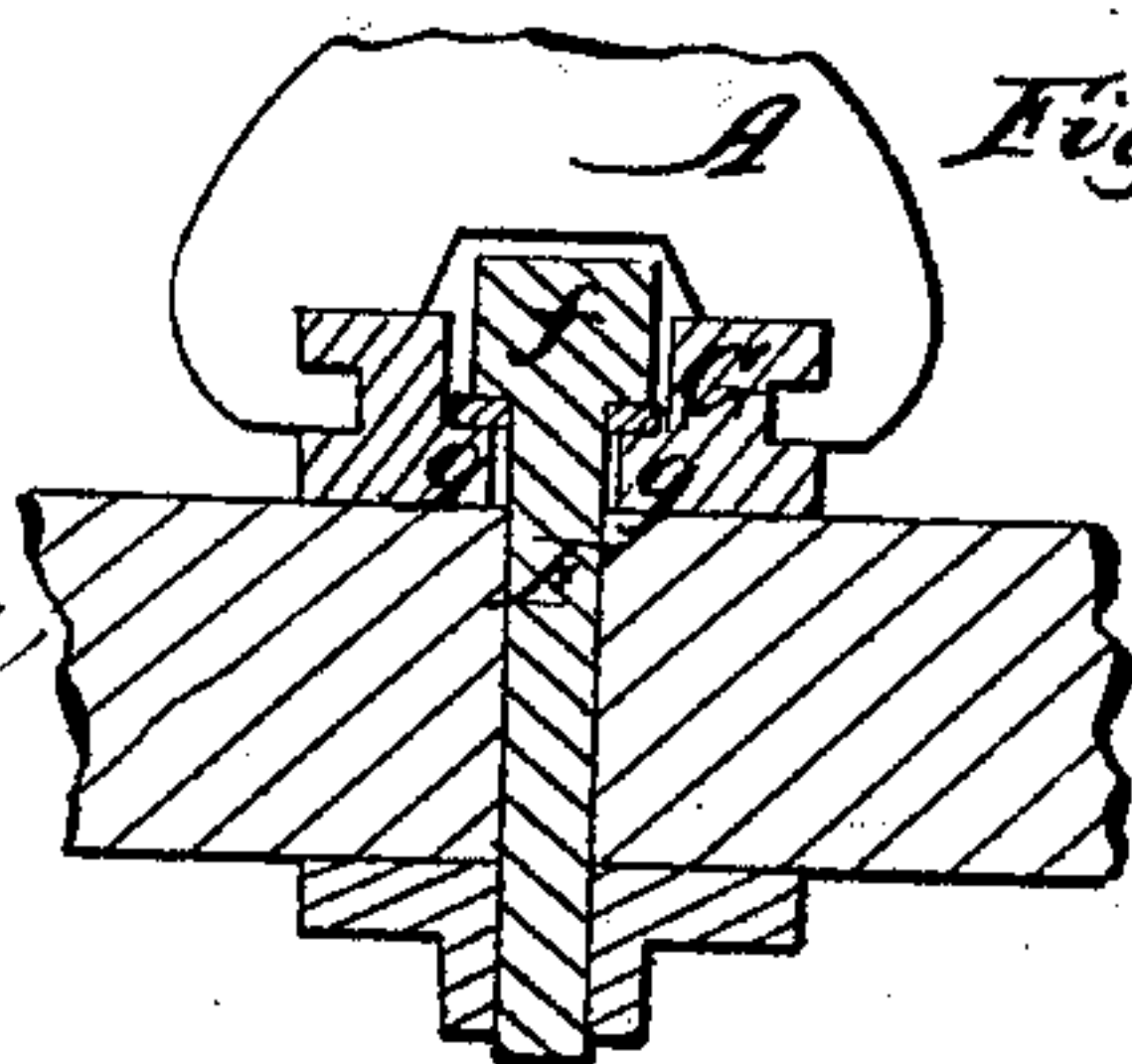


Fig. 3.

Witnesses
Dr. W. Ellsworth
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United States Patent Office.

ISAAC C. TATE, OF NEW LONDON, CONNECTICUT.

Letters Patent No. 67,685, dated August 13, 1867.

IMPROVED 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, ISAAC C. TATE, of the city and county of New London, and State of Connecticut, have invented a new and improved Vise; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a top view of my invention.

Figure 2 is an elevation of my invention showing the end of the vise towards which the screw projects.

Figure 3 is a vertical section of a portion of my invention showing the method of fastening to the bench.

Similar letters of reference indicate corresponding parts in the several figures.

In this invention the vise is provided with an attachment, by means of which it can be adjusted at any distance from and at any angle with the work-bench to which it is fixed.

The object of the invention is to provide a vise which can be used for general work in the machine shop, and held by a double fastening which can be operated from the top of the bench or vise.

In order that others skilled in the art to which my invention appertains may be enabled to make and use the same, I will proceed to describe it in detail.

In the drawings, A represents the fixed jaw and B the movable jaw of a common bench vise, of which C is the screw-shaft and D D the operating-handle or lever. E F are bolts, which attach the vise to the work-bench. They operate in a longitudinal vertical slot, G, in the base or bed-piece H of the vise, their heads *e f* working upon ledges *g g* in the sides of the slot, and holding the bed-piece firmly to the bench, so that no lateral, vertical, or twisting motion can be imparted to it by any force insufficient to break the bolts E F, and yet so that it will admit of a longitudinal motion back and forth through the length of the slot G. The rear end of the bed-piece H is flattened and widened so as to become nearly semicircular, and is provided with another vertical slot, I. This slot is curved, being in shape the arc of a circle, the radius of which is the distance from E to F, and communicates at its centre with the slot G. In consequence of this form, if the bed-piece be slid forward so as to bring the bolt E into the slot I, the vise can be turned to the right or left upon the bolt F, as a pivot, the bolt E working in the slot I from one end of it to the other. The bolts E and F are placed in a line perpendicular to the front side of the bench. The axis of the vise may be deflected from this line to any required degree, according to the length of the curved slot I.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—
The combination of the slots I and G and bolts E F, in a vise, substantially as and for the purpose described.

ISAAC C. TATE.

Witnesses:

CHARLES TREADER,

DANIEL LEE.