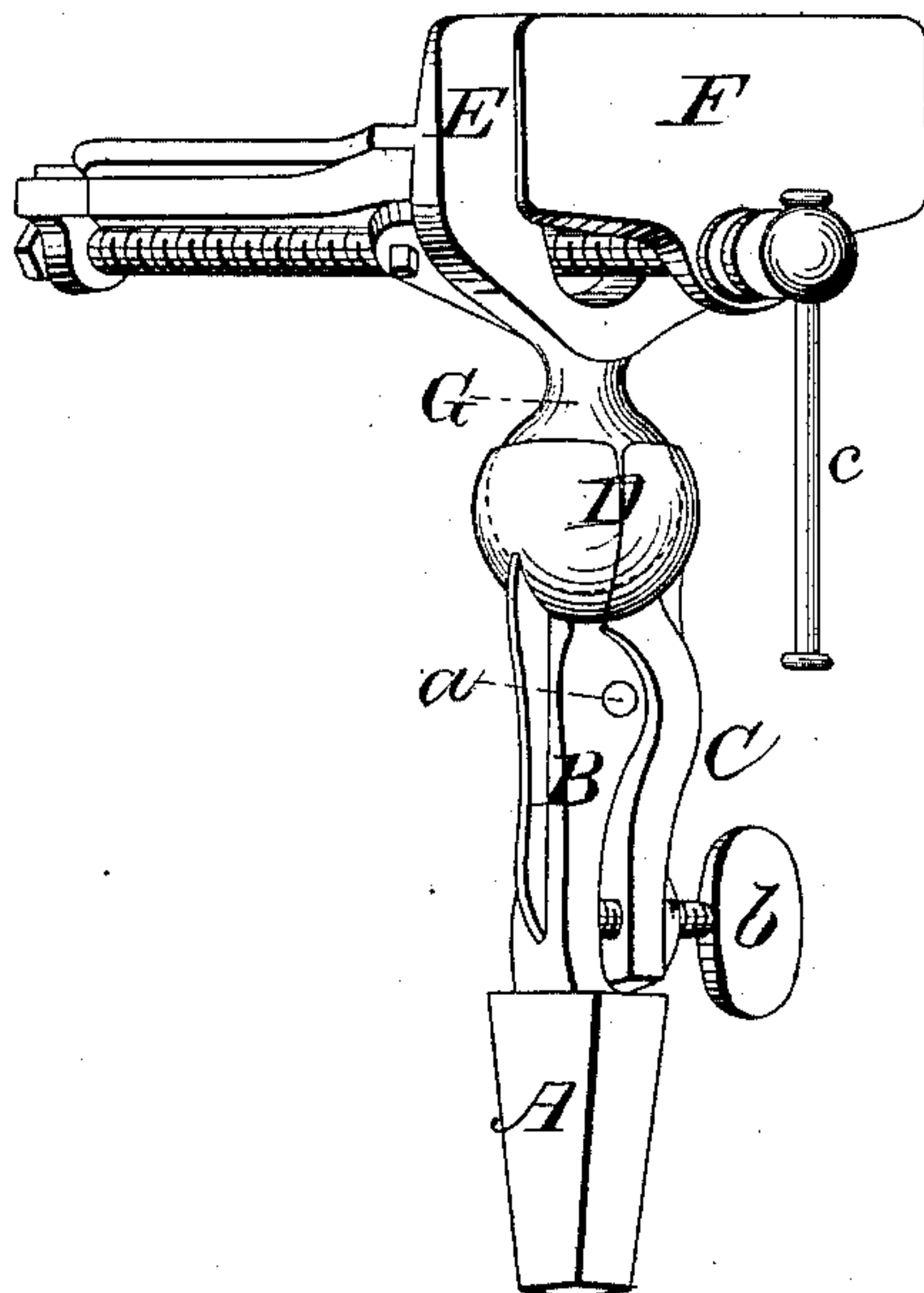


I. C. TATE.
Vise for Holding Wood.

No. 65,449.

Patented July 4, 1867.



Witnesses:
Thos Fische
J. A. Service

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United States Patent Office.

ISAAC C. TATE, OF NEW LONDON, CONNECTICUT.

Letters Patent No. 65,449, dated June 4, 1867.

IMPROVEMENT IN VISES FOR HOLDING WOOD.

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 New London, New London county, Connecticut, have invented a new and improved Parallel 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 the accompanying drawing forming part of this specification.

The drawing represents a perspective view of my invention.

The object of this invention is to adjust parallel vises, of any suitable construction, to the use of carvers and others who have to work on different sides of the article held in the vise, and consists in mounting the vise upon a universal joint, so that it can be turned and inclined to any desired degree, thereby enabling the turning of the article in the vise to light or to the front of the operator, or to any desired position. For carvers especially this invention is of great value, as heretofore they were obliged, when holding their work in an upright plank-clamp, to twist themselves, while with my improvement they are enabled to turn the work so that it is in the most convenient position for them.

A represents a square conical shank of an arm, B, which is made of cast iron, or other suitable material. By the shank or by any other suitable device, the said arm is secured in a bench or table in which a corresponding mortise is provided. To the side of the arm B is hinged an arm, C, and on the upper part of both arms B and C is formed a cup or full semi-spherical shell D, which can be opened or closed by turning the arm C on its pivot *a*. A set-screw, *b*, passing through the lower part of the arm C, can be used to firmly close the cup D. The vise, which is made of any suitable form, material, or shape, and which, in the drawing, is represented to consist of a stationary jaw, E, and sliding-jaw F, the latter being operated by a slip-handle, *c*, in the usual manner. To the lower side of the jaw E, or of its appendages, guides, &c., is secured or firmly cast therewith, a ball, G, as is clearly shown in the drawing. This ball is inserted in the cup D, and it is evident that the clamp can now be turned in any direction, and be held therein by clamping the sides of the cup D against the ball G.

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

The universal joint D, constructed as described, consisting of the shank A, arm B, to which the cup lever C is pivoted and adjusted by means of the set-screw *b*, adapted to support and adjust the ball G in any desirable position, substantially as described for the purpose specified.

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Witnesses:

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