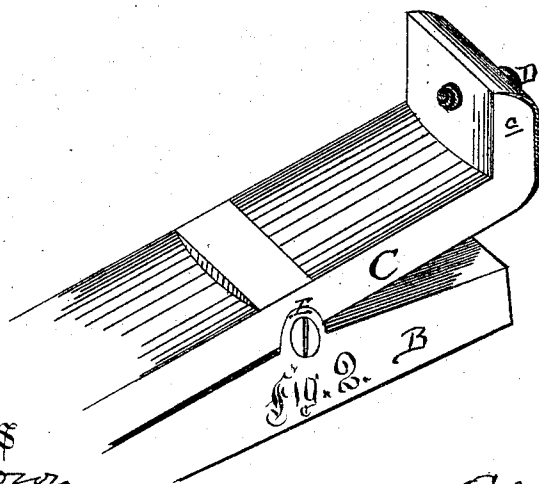
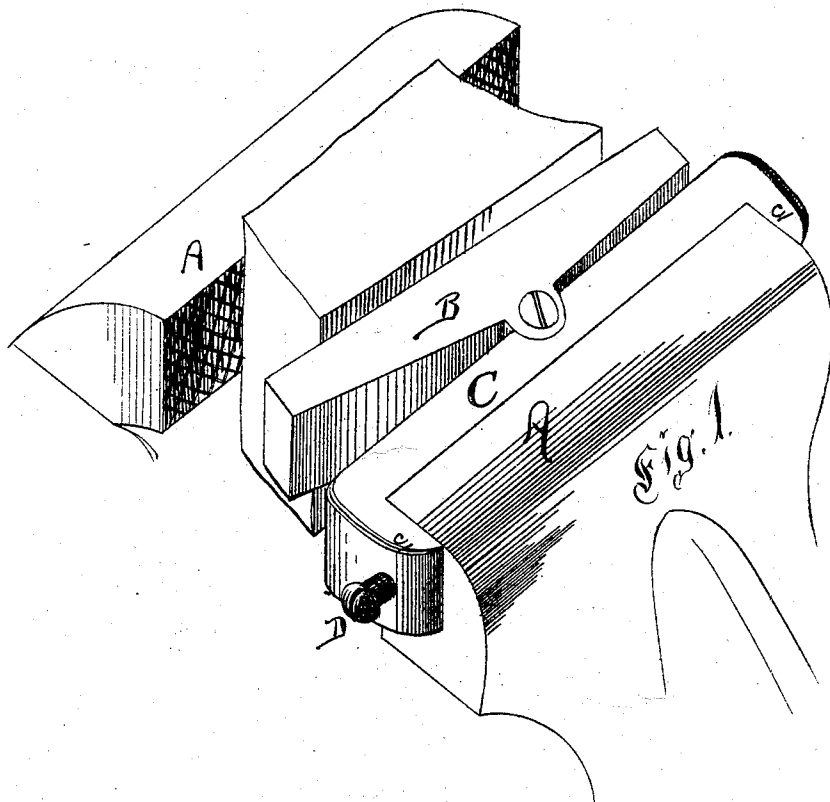


C. L. BUTLER.

Improvement in Adjustable Jaws for Vises.

No. 133,198.

Patented Nov. 19, 1872.



Witnesses  
J. S. Brown  
J. C. Lyons

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# UNITED STATES PATENT OFFICE.

CALVIN L. BUTLER, OF GREENFIELD, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND AUSTIN DE WOLF, OF SAME PLACE.

## IMPROVEMENT IN ADJUSTABLE JAWS FOR VISES.

Specification forming part of Letters Patent No. **133,198**, dated November 19, 1872.

*To all whom it may concern:*

Be it known that I, CALVIN L. BUTLER, of Greenfield, in the county of Franklin and State of Massachusetts, have invented a new and useful Improvement in Adjustable Jaws for Vises; 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, in which—

Figure 1 is a perspective view of my improvement in operative position, and Fig. 2 is a perspective view of the clamp-plate reversed.

My invention relates to that class of vises which are constructed to adapt or adjust the jaws to other than objects having parallel sides; and it consists in a false jaw hinged to a clamp and arranged to be attached to either jaw of an ordinary parallel vise, so that, when a tapering or other irregularly-shaped body is placed between said jaws, it will be securely gripped and held.

That others may fully understand my invention, I will particularly describe it.

A A are the jaws of an ordinary parallel vise. B is the false or adjustable jaw, hinged at its center to the clamp-plate *c*, so that said jaw B may incline either to the right or the

left, as the figure of the interposed body may require. The clamp-plate C is bent backward at its ends to inclose the ends *c* of the vise-jaw to which it may be applied, and the binding-screw D retains it firmly in place. The connecting-hinge E between the false jaw B and clamp-plate C may be a simple two-part joint, but should be fitted all around, so that strain will not come upon the pin. The back of plate C may be made concave, except in the center-back of the hinge-joint above mentioned, to insure a solid bearing behind said joint.

Having described my invention, what I claim as new is—

1. The adjustable jaw B combined with the backing-plate C, all constructed and arranged as described, to be clamped to the vise-jaw A, as set forth.

2. In combination with the adjustable jaw B, the backing-plate C, made concave on the back side, except at the center, so as to give a firm foundation for the joint E, as set forth.

CALVIN L. BUTLER.

In presence of—

AUSTIN DE WOLF,  
J. F. BRIDGES.