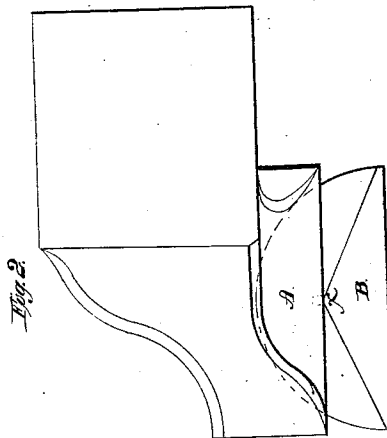
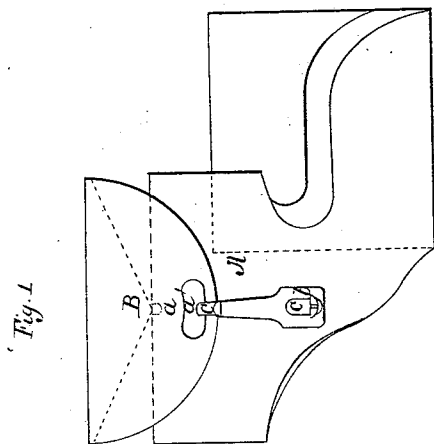
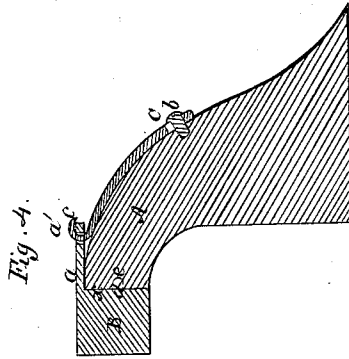
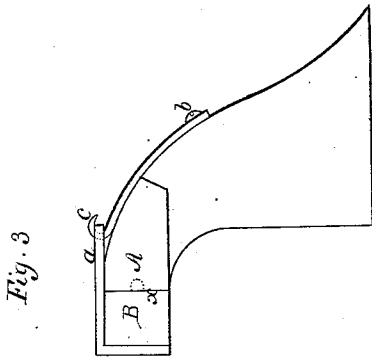


J. S. Hoar,

Vise.

No 61,429,

Patented Jan. 22, 1867.



Witnesses
George Andrews
Samuel A. Rippen

Inventor
John S. Hoar
R. M. Ledy
att'y.

United States Patent Office.

JOHN S. HOAR, OF WEST ACTON, MASSACHUSETTS.

Letters Patent No. 61,429, dated January 22, 1867.

IMPROVED BENCH VISE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, JOHN S. HOAR, of West Acton, in the county of Middlesex, and State of Massachusetts, have made a new and useful invention having reference to Bench Vises; and I do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 denotes a top, and

Figure 2 a bottom view of the jaw of a vise, with my invention applied to it.

Figure 3 is an end elevation; and

Figure 4, a transverse section of the same.

In carrying out my invention, I combine with the vise jaw A a false adjustable obtuse angle triangular jaw, B, made with a slotted flange, *a*, projecting back from it. The obtuse angle α of the triangular jaw B bears against the face of the vise jaw, while the flange projects over and rests on the upper surface of such vise jaw. The slot *a'*, made through the flange, which is semicircular in form, is curved from a centre coincident with the vertex of the obtuse angle of the jaw B. A hook, C, is passed through the slot, and is hooked upon the flange in its rear, and is secured to the vise jaw A by means of a set-screw, *b*, which screws into the vise jaw, and goes through a slot, *c*, made in the shank of the hook. The purpose of the hook C and the curved slot *a* is to hold the jaw B in place in connection with the jaw A, and to allow the jaw B to adjust itself laterally, or turn on the vertex of its angle. If desirable, the adjustable jaw B may have a small stud, *d*, extended from the vertex of its obtuse angle, and into a cavity or hole, *e*, made in the vise jaw. The purpose of the adjustable triangular jaw is to adapt the vise to holding an article whose opposite sides may be out of parallelism.

What I claim, is—

The adjustable jaw B, made as described.

I also claim its combination and arrangement with the vise jaw.

I also claim the arrangement and combination of the slotted hook C, and its set-screw *b*, with the vise jaw A, and with the adjustable jaw B, made as described.

JOHN S. HOAR.

Witnesses:

R. H. EDDY,

F. P. HALE, Jr