

C. BURTON.
Bench-Vises.

No. 158,674.

Patented Jan. 12, 1875.

Fig. 1

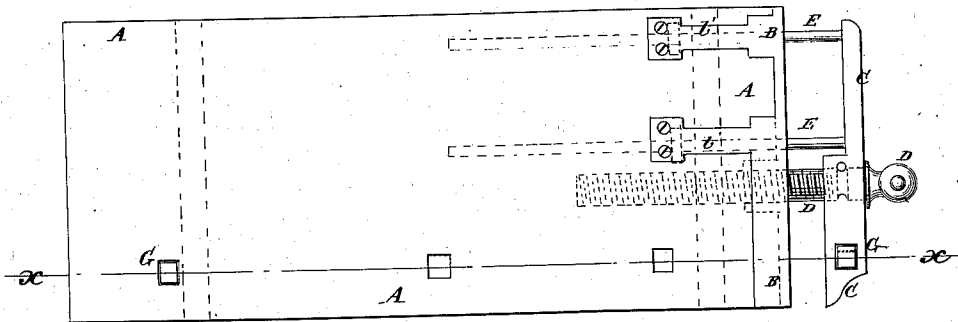
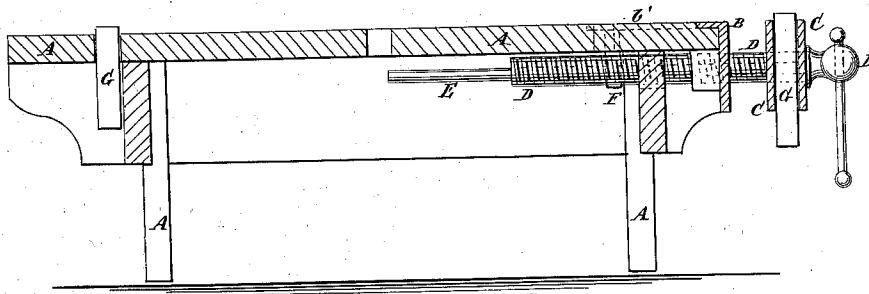


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

CARLOSS BURTON, OF NEW BALTIMORE, OHIO.

IMPROVEMENT IN BENCH-VISES.

Specification forming part of Letters Patent No. 158,674, dated January 12, 1875; application filed October 31, 1874.

To all whom it may concern:

Be it known that I, CARLOSS BURTON, of New Baltimore, in the county of Wood and State of Ohio, have invented a new and useful Improvement in Bench-Vises, of which the following is a specification:

Figure 1 is a top view of a bench to which my improved vise has been applied. Fig. 2 is a longitudinal section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention consists in the construction and arrangement of certain parts, as herein-after described, and specifically indicated in the claim.

A represents a work-bench, to one end of which is attached a plate, B, which forms the stationary jaw of the vise, and is made angular to overlap a portion of the end and top of the bench A, as shown in Figs. 1 and 2. Upon the rear part of the upper flange of the plate B are cast, or to it are secured, arms *b'*, which are let into the top of the bench A, and the ends of which are widened to give them a firm hold upon the said top, and prevent the plate B from being pushed off. The arms *b'* are held down in their places by screws or bolts, as shown in Fig. 1. C is the movable jaw of the vise, which is placed in a horizontal position, with its upper side flush with the upper surface of the plate B and the top of the bench A. To the middle part of the jaw C is swiveled the screw D, by which the said jaw is operated to clamp and release the work, and

which passes in beneath the top of the bench A, through a screw-hole in the plate or stationary jaw B. To the rear part of the movable jaw C are attached two rods or arms, E, which pass through holes in the rear part of the plate or stationary jaw B, and through the eyes of the eyebolts F, which pass up through the top of the bench A and screw into screw-holes in the arms *b'*, and which keep the movable jaw C always parallel to the stationary jaw B, or nearly so. The work, when long, is clamped between and held by the dogs G, one of which is inserted in a hole in the movable jaw C, and the other is inserted in one or the other of the holes formed to receive it in the top of the bench. The dogs G are provided with springs upon their sides, in the usual way, to hold them in any position into which they may be adjusted, according to the thickness of the work to be held.

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

The angle-plate or stationary jaw B, provided with arms *b'* and eyebolts F, the horizontal movable jaw C, carrying the adjustable dog G, and provided with a swiveled screw, D, and the guide-rods E, arranged parallel to the screw, all constructed, combined, and operating in connection with a bench, as shown and described.

CARLOSS BURTON.

Witnesses:

JOHN E. WELLS,
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