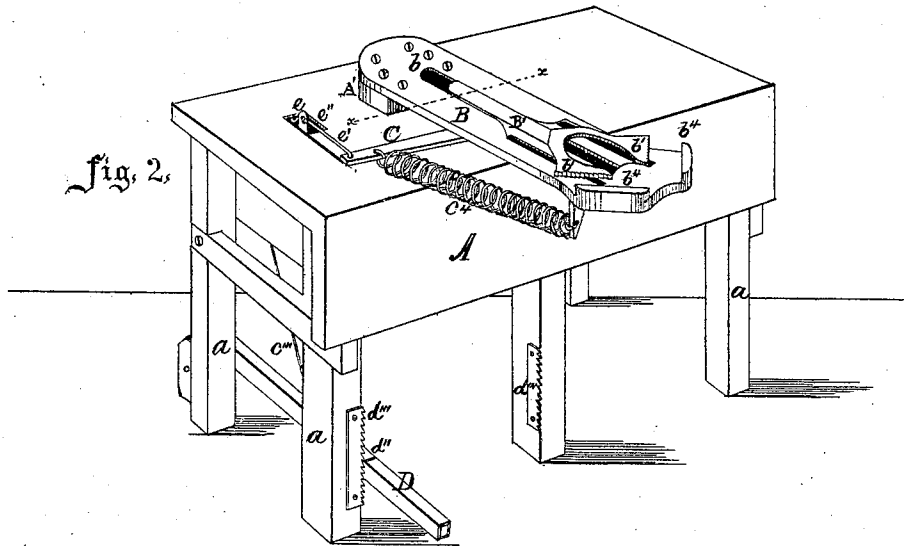
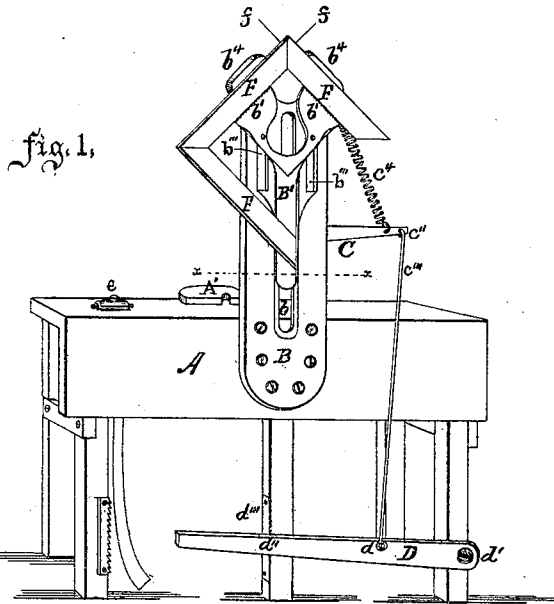


W. H. JACOBY.

Improvement in Vises.

No. 132,402.

Patented Oct. 22, 1872



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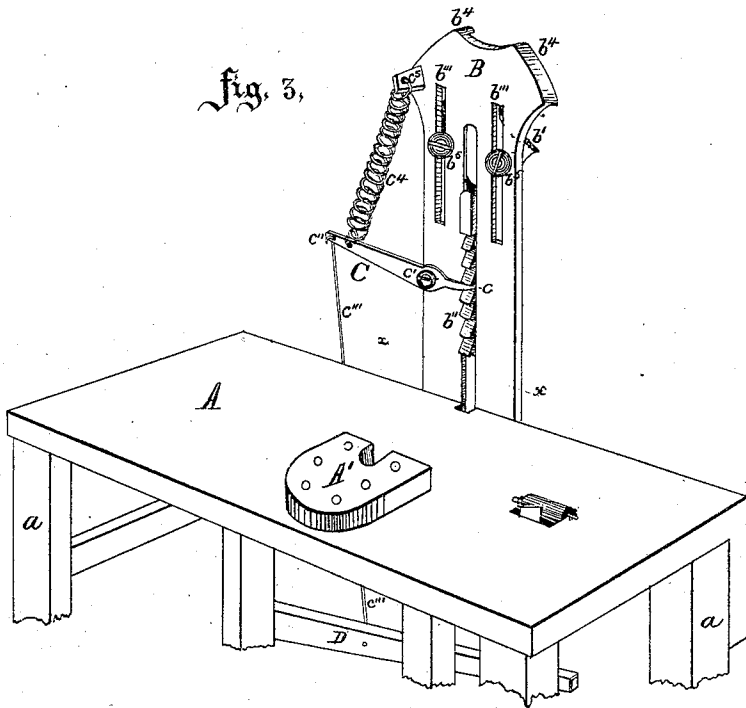


fig. 3,

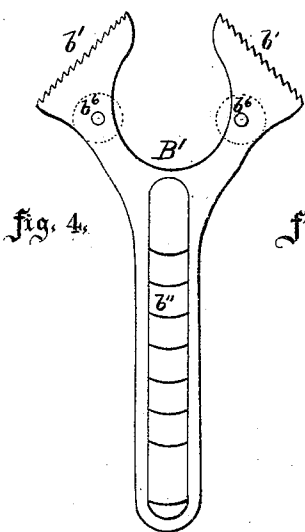


fig. 4,

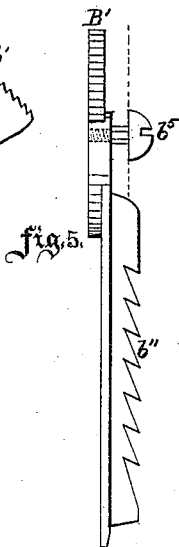


fig. 5,

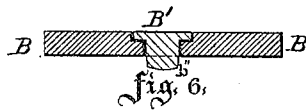


fig. 6,

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WILLIAM H. JACOBY, OF MINNEAPOLIS, MINNESOTA.

IMPROVEMENT IN VISES.

Specification forming part of Letters Patent No. 132,402, dated October 22, 1872.

To all whom it may concern:

Be it known that I, WILLIAM H. JACOBY, of Minneapolis, in the county of Hennepin, in the State of Minnesota, have invented certain Improvements in Vises or Clamps for holding miter-jointed pieces of wood in position to be secured in place, of which the following is a specification:

The object of this invention is to introduce into use a vise or clamp that will securely hold two pieces that are cut to a miter-joint while such pieces are being nailed, pinned, or feathered together; and it consists in the construction of the parts and their arrangement whereby the object is perfected, as will more fully hereinafter be described.

In the drawing, Figure 1 is an upright front view of the clamp or vise fast to the side of the work-bench; Fig. 2 shows the clamp or vise in horizontal position on top of the bench; Fig. 3 is a back-side view of the clamp or vise in upright position; Figs. 4 and 5, enlarged details; and Fig. 6, cross-section on *xx* of Figs. 1 and 2.

A is a work-bench of ordinary construction and supported on legs *aa*. B is the standing or fixed part of the vise or clamp, which is preferably constructed of metal, having slot *b* centrally therein, two side slots, *b''' b''''*, parallel thereto, and smooth-faced flanges *b⁴* projecting from the inclined top parts of part B, which form the outer part of the clamping or holding jaws of the vise. B' is a sliding part, bifurcated near its upper end, each part terminating in angular serrated jaws *b' b'*, while the lower body part has a backward projection that fits and slides in slot *b* of stationary part B, and projecting back far enough to have the teeth or notches *b''* clear of the back side of part B. *b⁵ b⁵* are screws that are turned into the sliding part B' at *b⁵ b⁵* through slots *b'''* in fixed part B. The heads of the screws sliding against the back side of part B prevent the sliding part B' from separating from part B, but allow part B' to freely slide in the open slot *b*. C is a lever pivoted at *c'* to part B, with its short end shaped to take hold of the notches *b''* on the sliding part B', as seen at *c*, Fig. 3, while to the long end at *c''* is attached a connecting-rod, *c'''*, which connects at *d* to treadle D that is pivoted at *d'* to leg *a* of the bench A. *c⁴* is a spring attached at its upper end to the fixed part B, and at the lower end to lever C. *d''* is a plate on treadle-lever D, and of the proper form to take

into teeth or notches on plate *d''* on the leg *a* of bench A, and hold the clamp in position.

This vise or clamp can be used in a horizontal as well as in upright position, by securing the lower end of the stationary part B upon block A' on the top of bench A, and to do this only requires a rod, *e'*, to connect the lever C with a bell-crank, *e*, the upper end of which projects up through hole *e''* in the top of bench A, while the connecting-rod *e'''* connects the other end of the bell-crank with the treadle-lever D, as seen in Fig. 2.

This vise or clamp is especially designed for securely holding two sides or parts of a frame that are mitered together at their meeting-angles while the parts are being permanently nailed or feathered, and in Fig. 1 is shown the mitered pieces that form a frame being put together and held in the vise or clamp while the nails or feathers are inserted. F represents the side pieces that compose the frame firmly clamped to a joint at the meeting-angles, and held in such position while the nails *f* are driven through one side into the other to hold them in contact and together, as the sliding part B', with its angular serrated jaws *b'*, takes hold of the inner edge of the two pieces and forces them together at their meeting-angles, and clamps them against the projecting jaws *b⁴* on the fixed part B by the action of forcing the treadle-lever D down by the foot, when the plate *d''* on the treadle-lever will engage a notch in plate *d'''* on leg *a*, and the pieces F will be securely clamped in proper position for nailing or otherwise holding the joint firmly in place.

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

1. The fixed or stationary part B having slots *b* and *b''' b''''* therein and projecting angular jaws *b⁴ b⁴*, and the sliding part B' having serrated jaws *b' b'*, and constructed to slide in the slot *b* of part B, and secured thereto in the manner and for the purpose substantially as described.

2. The combination of the treadle-lever D, rod *c'''*, lever C, and sliding part B' with the stationary part B, constructed and operating substantially in the manner and for the purpose described.

WILLIAM H. JACOBY.

Witnesses:

H. J. JACOBY,
CHAS. H. WOODS.