2 Sheets--Sheet 1.

W. H. JACOBY.

Improvement in Vises.

No. 132,402. Patented Oct. 22, 1872

Fig. 1,

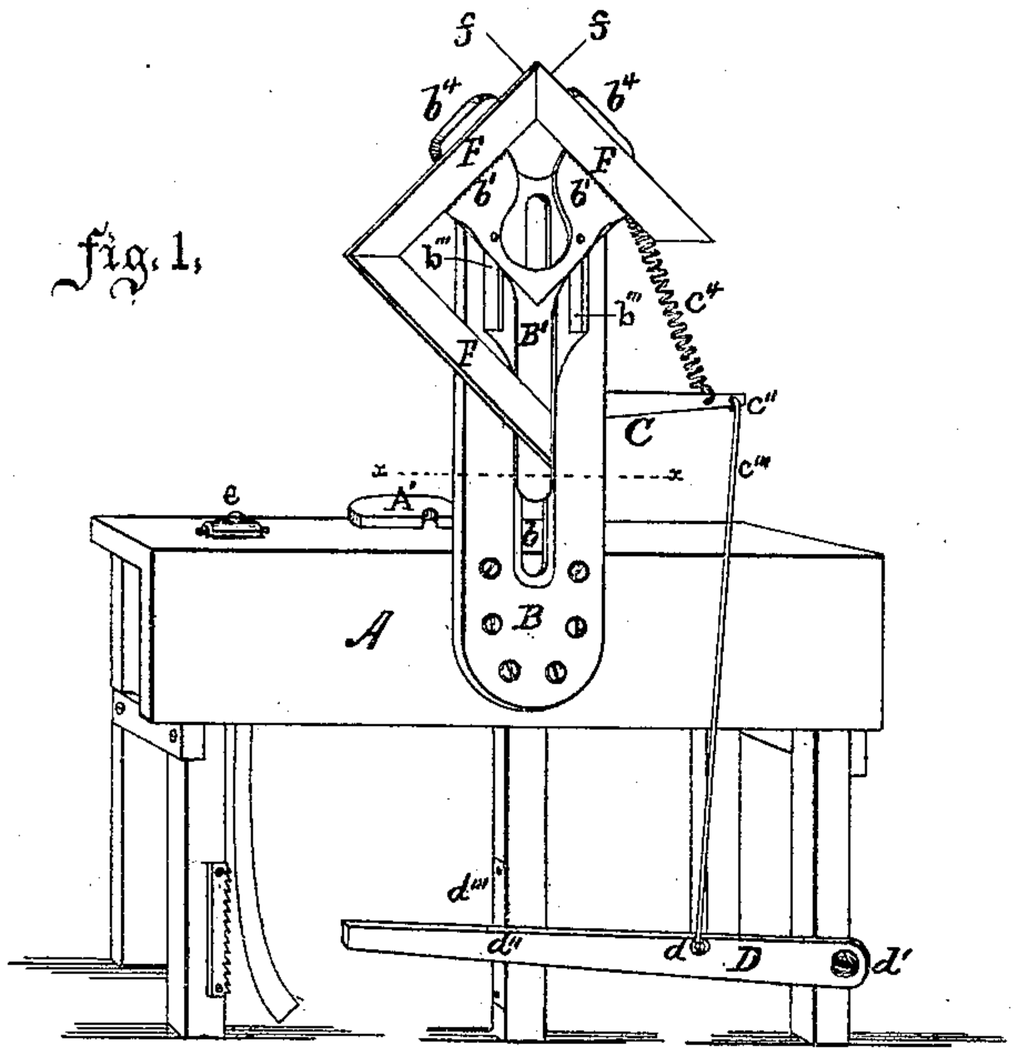
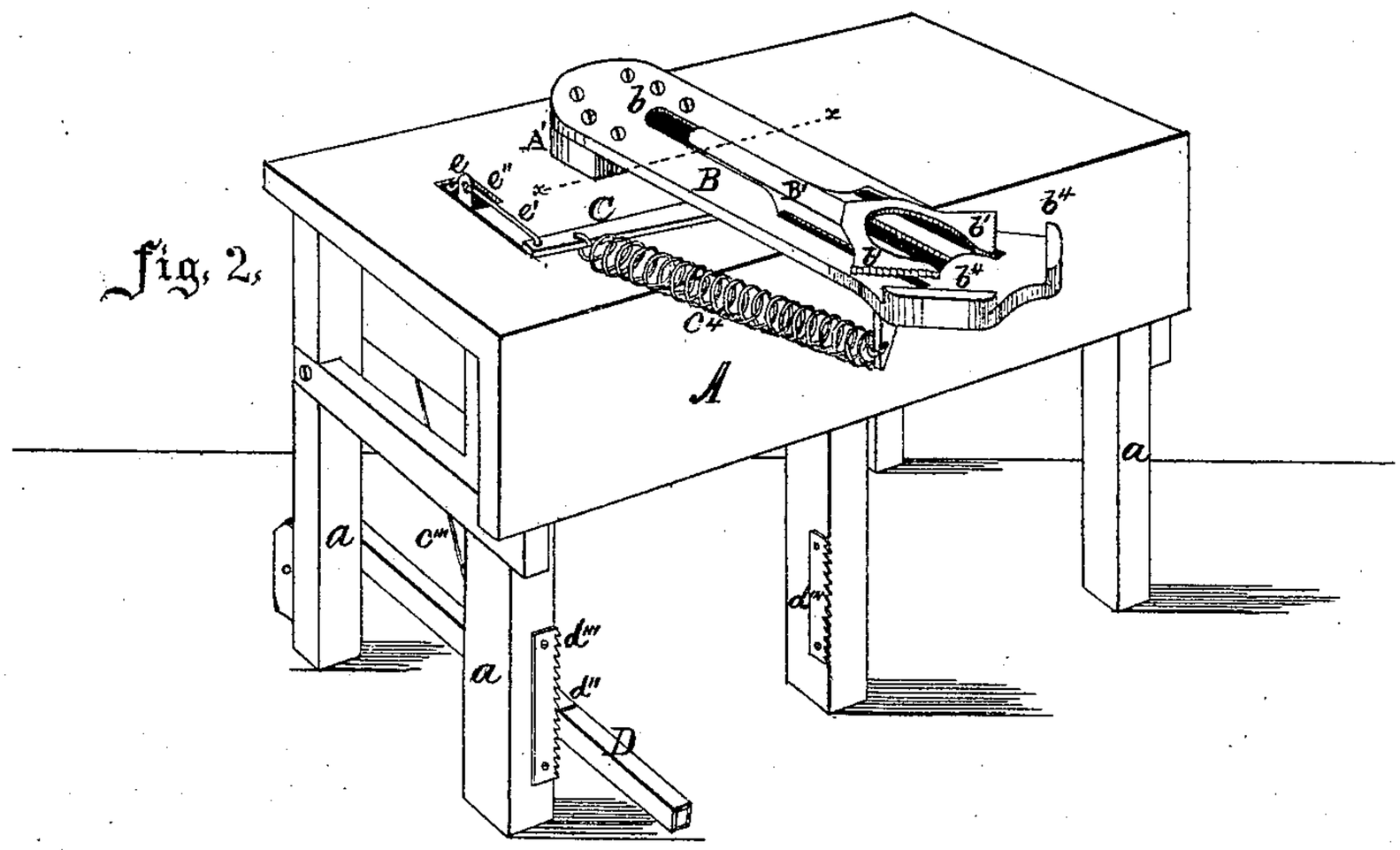


Fig. 2,



Attest

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2 Sheets--Sheet 2.

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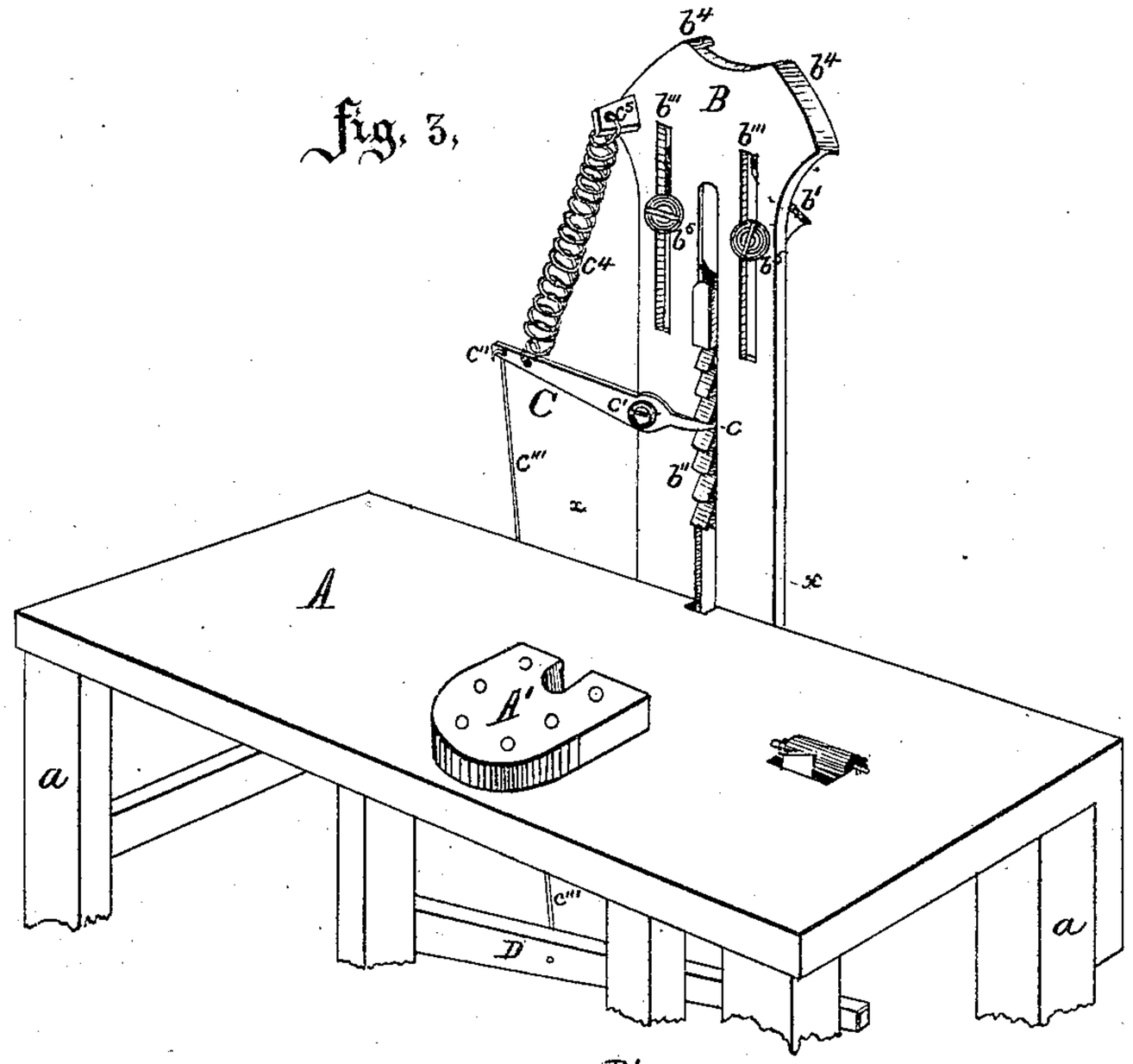
Fig. 3,



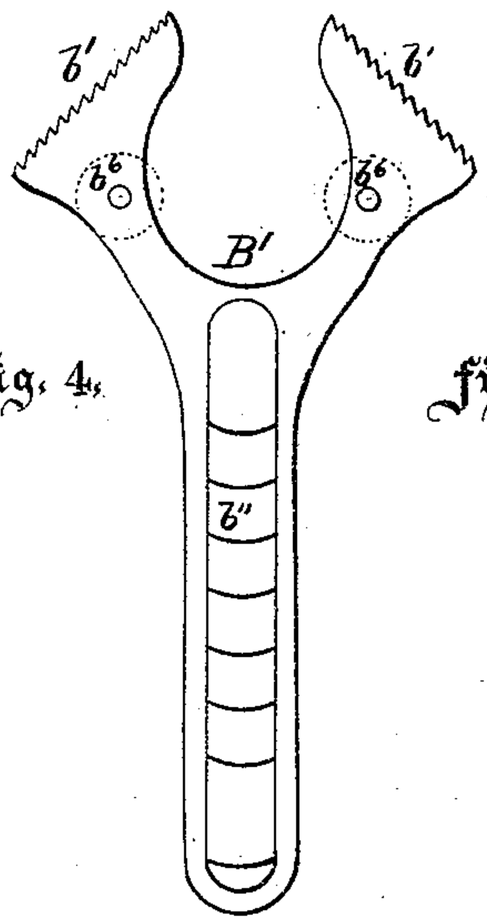


Fig. 4.

Fig. 5.

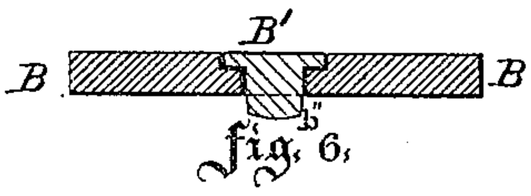


Fig. 6.

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UNITED STATES PATENT OFFICE.

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 *x x* of Figs. 1 and 2.

A is a work-bench of ordinary construction and supported on legs *a a*. 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 b^4 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. b^5 b^5 are screws that are turned into the sliding part B′ at b^6 b^6 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. c^4 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 *c‴* 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 b^4 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 b^4 b^4, 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.