

(No Model.)

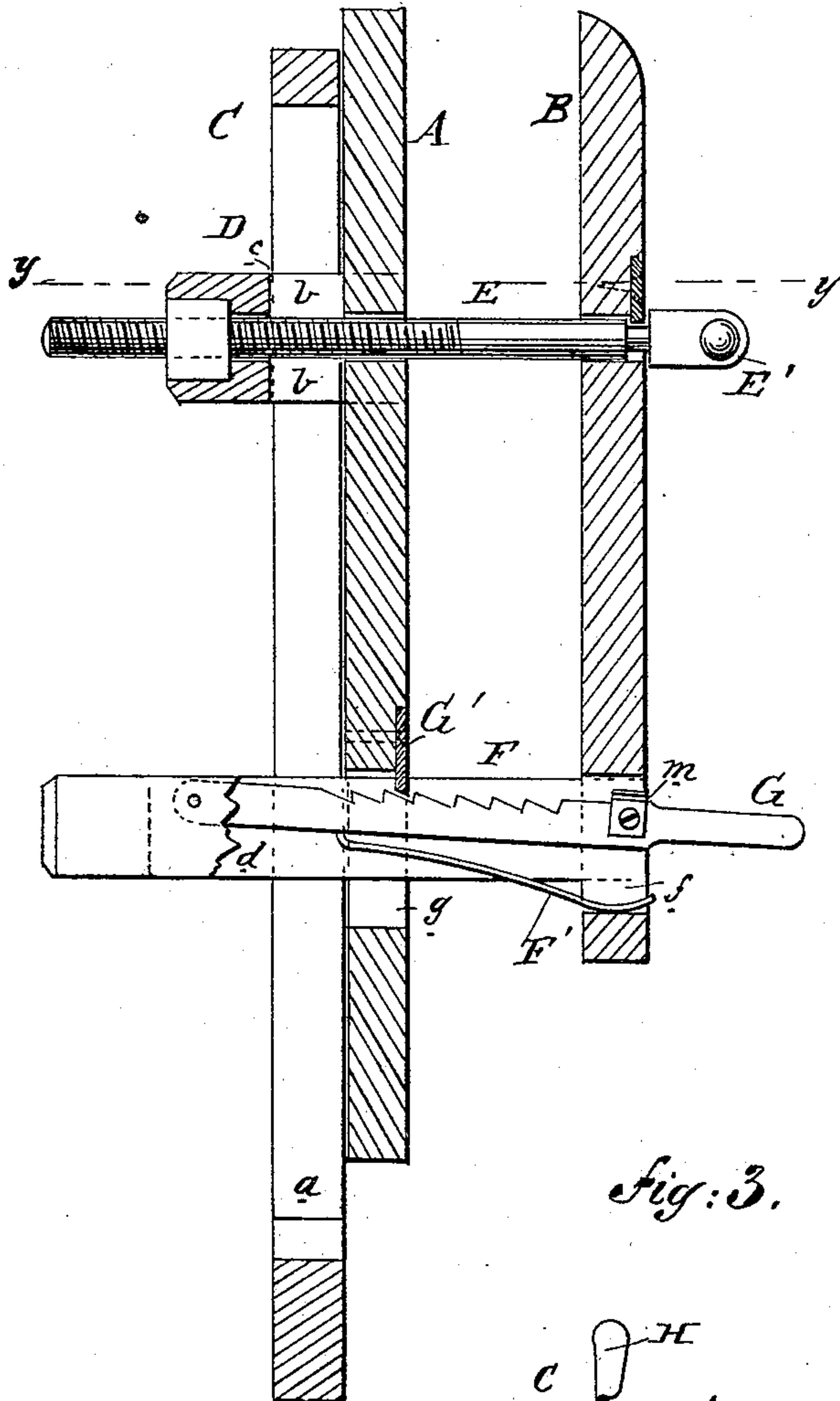
J. L. PARKER.

BENCH VISE.

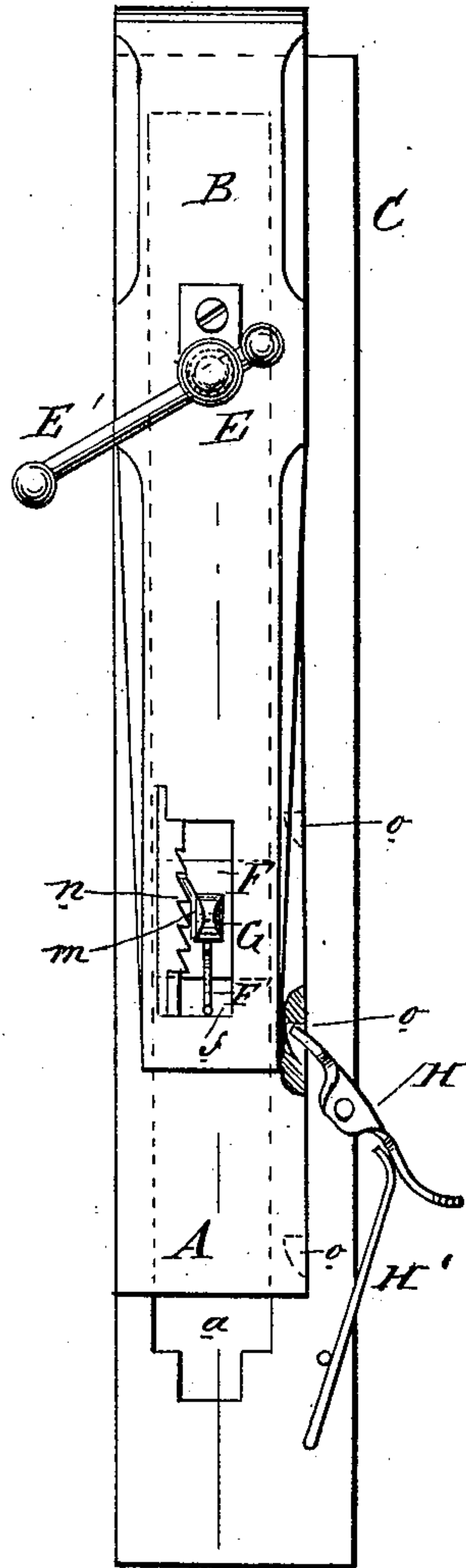
No. 253,756.

Patented Feb. 14, 1882.

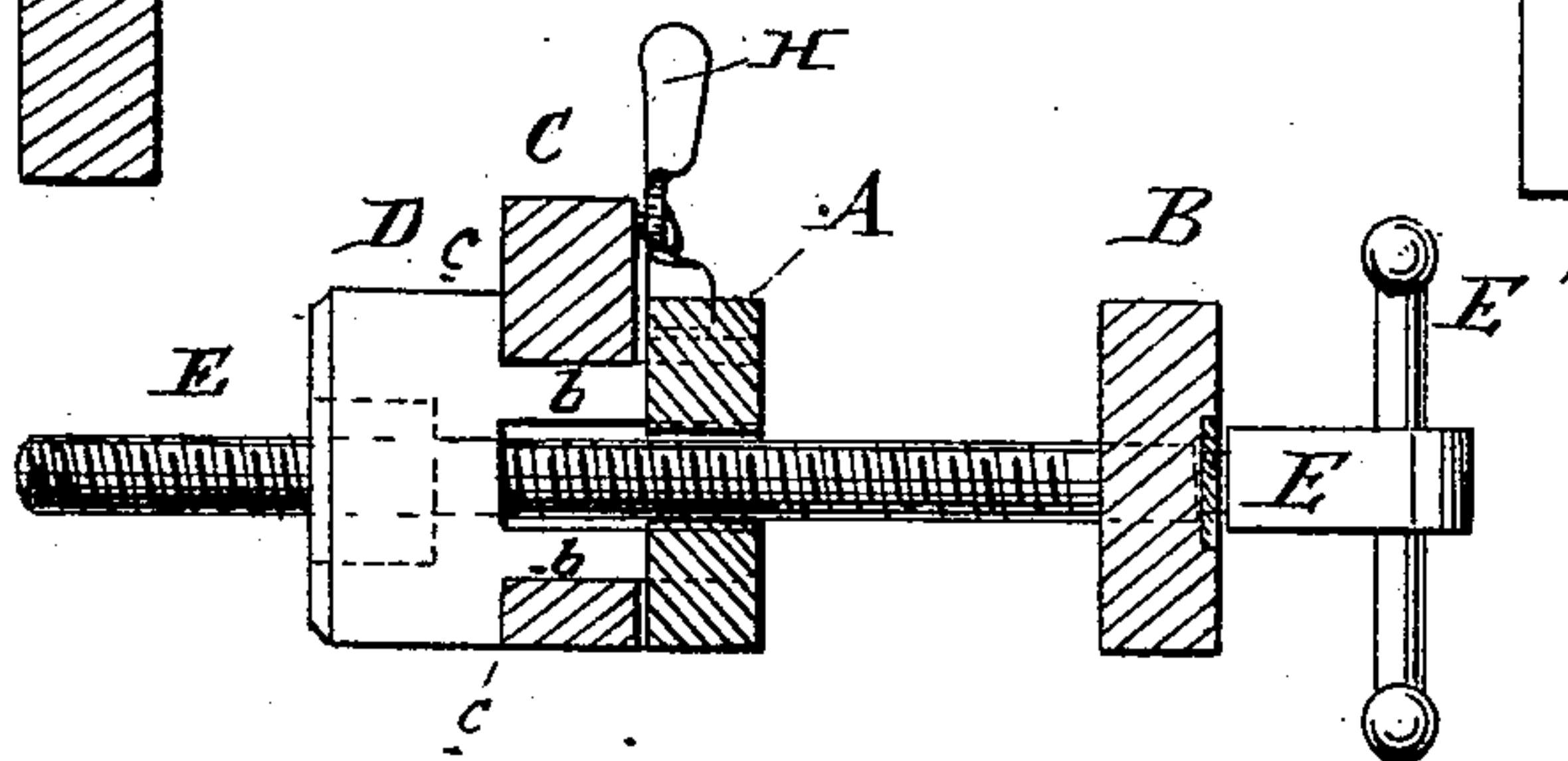
*Fig. 2.*



*Fig. 1.*



*Fig. 3.*



WITNESSES:

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INVENTOR:

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# UNITED STATES PATENT OFFICE.

JESSE LINDON PARKER, OF FOUNTAIN CITY, INDIANA, ASSIGNOR TO HIMSELF AND R. F. WILL CUTS, OF SAME PLACE.

## BENCH-VISE.

SPECIFICATION forming part of Letters Patent No. 253,756, dated February 14, 1882.

Application filed August 6, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, JESSE L. PARKER, of Fountain City, in the county of Wayne and State of Indiana, have invented a new and Improved Bench-Vise, of which the following is a full, clear, and exact specification.

The object of this invention is to provide a cheaper, more convenient, and more easily manipulated vise for a carpenter's bench than any such vise heretofore known.

The invention consists of a vise provided with a tenoned and shouldered screw-block for the upper screw, and with a notched treadle, spring, and catch-plate in lieu of the usual lower screw or guide-bar, all of which will be hereinafter set forth.

Figure 1 is a front elevation of the same, with parts broken away to exhibit other parts. Fig. 2 is a sectional side elevation of the improved vise in position on line *xx*, Fig. 1, with parts broken away to exhibit other parts. Fig. 3 is a cross-section on line *yy*, Fig. 2.

Similar letters of reference indicate corresponding parts.

In the drawings, A B represent respectively the two jaws of the vise, and C the bench-leg, provided with a slot, *a*, to admit the travel of the vise.

D is the screw-block, mortised into the jaw A, having its tenons *b* moving in the slot *a* of the bench-leg C, and its shoulders *c* bearing against the inside of said leg C; and E is the upper screw, provided with cross-handle E', passing through jaws B A and screw-block D to draw the jaws A B together. The block D guides the vise up and down in the slot *a*, and serves, in combination with the screw E, to tighten the jaws A B on whatever is placed between said jaws.

F represents a longitudinally-slotted block mortised in the lower end of the jaw B and extending through a corresponding opening, *g*, in the jaw A and rearward through the slot *a* in the bench-leg C; and in the slot *d* of said block F is pivoted a notched treadle, G, that extends outward through the face of the jaw B, convenient to the foot of the operator. This treadle G is designed for holding the lower ends of the jaws A B in any desired relative position. A spring, F', having one end secured in the under side of the treadle G, while its other end bears down upon the bottom of the opening *f* in the jaw B, serves to hold said

treadle G upward engaged with the catch-plate G', that is secured on the jaw A just above the opening *g* therein, whereby the lower end of the jaw B is held at any desired distance from the jaw A. On pressing down on the treadle F and disengaging it from the plate G' the block F, and with it the lower end of the jaw B, can be moved in or out as may be desired, the dog *m* on the handle of the treadle G being in the meantime engaged in the ratchet *n*, that is fixed on a side of the opening *f* in the jaw B, and on releasing the dog *m* from the ratchet *n* the treadle G is made to re-engage with the plate G', and thereby hold the lower end of said jaw B fixed.

Pivoted on a side of the bench-leg C is a treadle, H, that, pressed by a spring, H', also secured on the leg C, is made to engage in one or the other of the notches *o* in the edge of the jaw A for the purpose of holding the vise at any desired elevation. On pressing down the said treadle H it is disengaged from a notch, *o*, and the vise may then be moved up or down, as desired, by taking hold of the cross-handle E'.

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

1. An improved bench-vise, constructed substantially as herein shown and described, consisting of jaw A, provided with screw E, block D, and opening *g*, of catch-plate G, and of jaw B, having opening *f*, and provided with slotted block F and pivoted ratchet-spring treadle G', arranged as set forth.

2. In a bench-vise, the combination, with the jaws A B and the slotted bench-leg C, of the screw-block D, provided with tenons *b* and shoulders *c*, substantially as and for the purpose set forth.

3. In a bench-vise, the combination, with the jaws A B, of the slotted block F, catch-plate G', and spring-actuated treadle G, substantially as herein shown and described, whereby the relative positions of the lower parts of said jaws are fixed, as set forth.

4. In a bench-vise, the combination, with jaw B, block F, and treadle G, provided with dog *m*, of the ratchet *n*, substantially as herein shown and described, whereby said treadle is held disengaged, as set forth.

JESSE LINDON PARKER.

Witnesses:

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