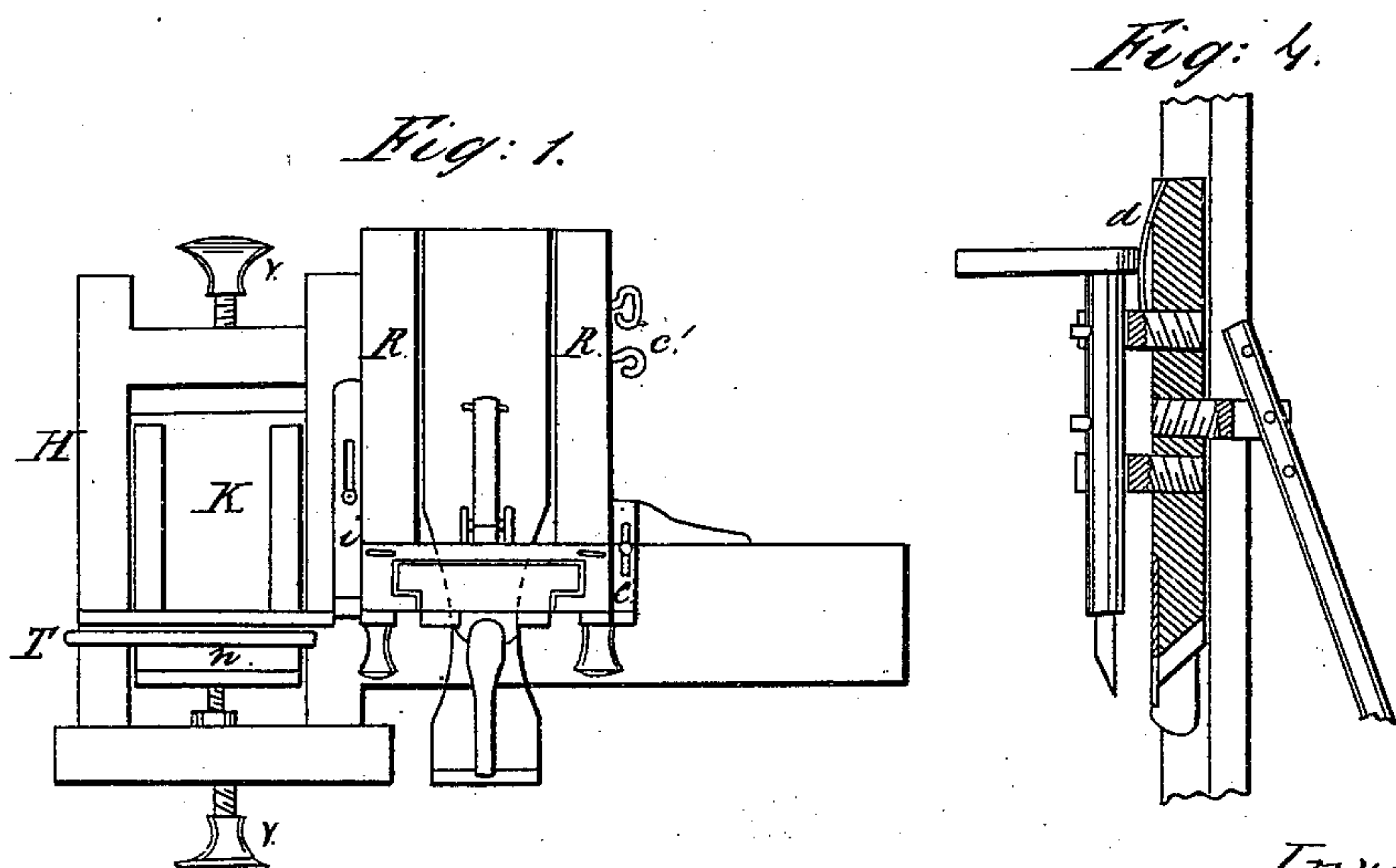
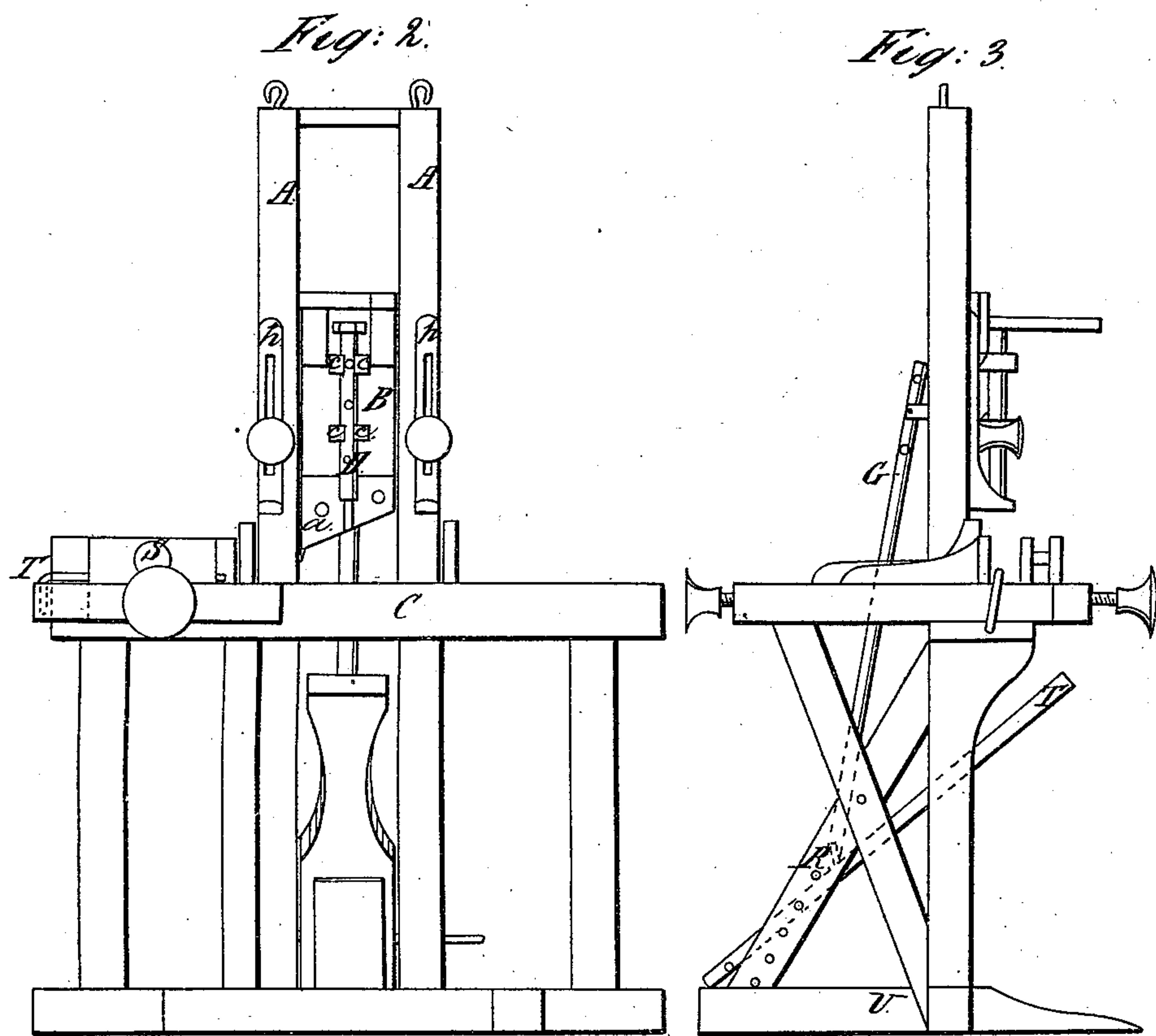


W. H. Sible.
Mortising Mach.
N^o 94,140. Patented Aug. 24, 1869



Witnesses
James P. Green
Dennis L. Kane

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WILLIAM H. SIBLE, OF HARRISBURG, PENNSYLVANIA.

Letters Patent No. 94,140, dated August 24, 1869.

IMPROVEMENT IN MORTISING AND TENONING-MACHINE.

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

To all whom it may concern:

Be it known that I, WILLIAM H. SIBLE, of Harrisburg, in the county of Dauphin, and State of Pennsylvania, have invented a new and valuable Improvement in Tenon-Cutting and Mortising-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1, of the drawings, is a plan view of my invention.

Figure 2 is a front elevation of the same.

Figure 3 is a sectional view thereof.

Figure 4 is a detail.

My invention relates to machines for cutting mortises in wood; and

It consists in the construction and novel arrangement of devices by which such mortises may be easily and rapidly formed.

With this object, I construct a frame, as shown on the drawings, and having two upright posts or standards affixed thereto, as represented by the letter A of the drawings.

These standards are grooved on their inner sides respectively, to hold the gate B, and provide means for the movement of said gate up and down, in the manner of an ordinary saw-gate.

The letter C represents the bed-plate of my machine, upon which the timber to be mortised is placed.

My gate is constructed in the manner shown, and to the lower end thereof I affix the trimmer, marked *a*.

The letter D represents the chisel, arranged upon the front side of the gate B, in lugs *c*, as shown.

I affix a spring to the gate, immediately in the rear of the handle of this chisel, which serves to regulate the movements of said chisel. This spring, and its method of adjustment, is shown by the letter *d*, on fig. 4.

The letters *h* represent slotted bars, attached by suitable set-screws to the front sides of standards A, and are intended as clamps, to aid in holding the timber upon the bed-plate. I adjust similar slotted arms upon the bed-plate, outside the standards, in a similar manner, and for a similar purpose. They are respectively marked *i*, on the drawings.

The letter H represents a frame, arranged upon the left-hand end of the bed-plate, and designed to hold the adjustable sliding block, next mentioned.

The letter K represents a sliding block, adjustable by set-screws in the frame H, as shown.

I attach slats or guides to the front end of this block,

which are raised above the bed thereof, and form a channel, as shown at *n*.

The timber to be mortised moves longitudinally in this channel, and may be held firmly in any desirable position by the means above mentioned, in conjunction with the set-screws, operating in and through the slat in front of the channel *n*.

The letters *v* represent set-screws, by which the block K is adjusted.

The letter *y* represents a guide. It is constructed in the form of a staple, with its left-hand or crooked end adjusted in the end of the bed-plate C, and arranged so as to be movable out or in, at will. This guide serves as a means for moving the timber in the channel and under the chisel.

The letters R represent braces, affixed to the standards A and base-bar U, as shown.

These braces are perforated with pin-holes, to admit the pin *c'*, hereinafter mentioned, and thereby regulate the height of the treadle and gate, as explained hereafter.

The letter *c'* represents a pin, that is passed through the holes in braces R and the lower end of treadle T, holding said treadle securely, and serving as a hinge for the movements thereof.

The letter T represents the treadle, by which the machine is operated. The lower end of this treadle is made adjustable by pin-holes, through which the pin *c'* is passed.

The letter G represents a rod, passing from the rear side of the gate B, (to which it is pivoted, as shown,) to a point near the foot of treadle T, to which it is connected in the manner shown.

These devices combined form a neat and effective machine for the purpose named, adjustable in nearly all its parts, easily constructed, and made portable at will.

What I claim as my invention, and desire to secure by Letters Patent, is—

The tenon and mortising-machine herein described, having adjustable sliding block K, with its set-screws *v* and *s*, the adjustable guide *y*, channel *n*, gate B, chisel D, clamping-bars *h* and *i*, rod G, braces R, and treadle T, when constructed and arranged substantially as specified.

In testimony that I claim the above, I have hereunto subscribed my name, in the presence of two witnesses.

WILLIAM H. SIBLE.

Witnesses:

EUGENE SNYDER,
ROBT. SNODGRASS.