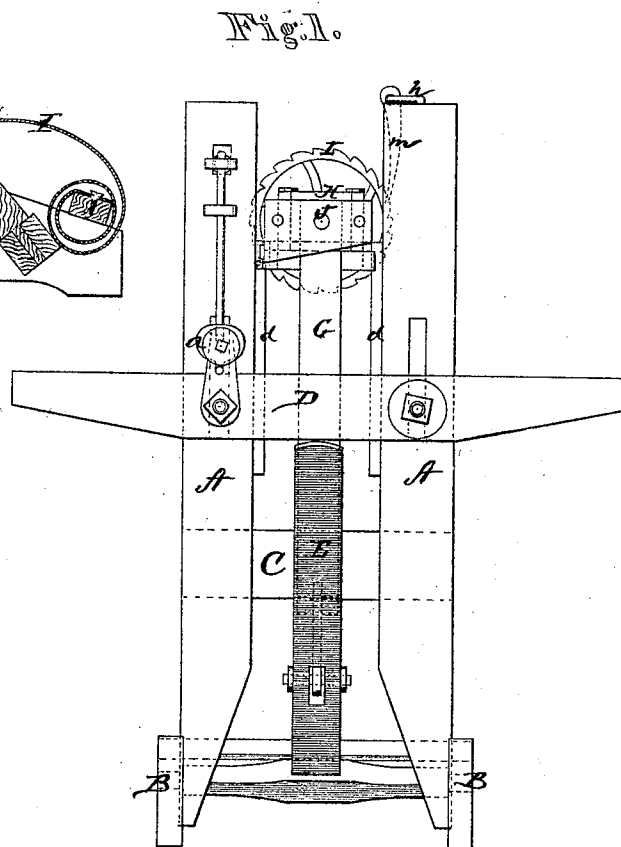
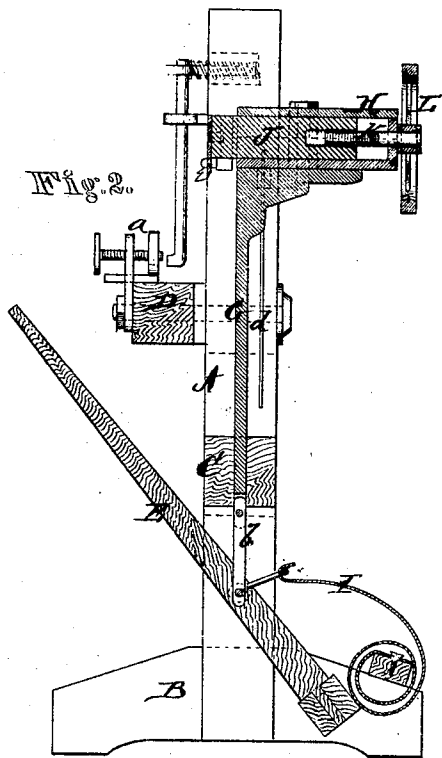


W. H. Sible,
Mortising Machine.

No. 110079.

Patented Dec. 13, 1870.



Witnesses.
Chas. Kenyon.
Wm. Anderson.

Inventor.
W. H. Sible.
Chipman & Son & Co.
Attys

United States Patent Office.

WILLIAM H. SIBLE, OF HARRISBURG, PENNSYLVANIA.

Letters Patent No. 110,079, dated December 13, 1870.

IMPROVEMENT IN MORTISING-MACHINES.

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 Combined Tenon and Mortising-Machine; 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my improved machine in transverse vertical section; and Figure 2 is a front elevation of the same.

My present invention is intended as an improvement upon the tenon and mortising-machine for which Letters Patent, No. 94,140, were granted to me in August, 1869; and

It consists in that it is self-feeding, the chisel and knife moving instead of the timber.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing.

A A represent the upright standards, supported upon feet or bed-pieces, B B, and connected by a cross-piece, C.

D is the adjustable beam upon which the stuff to be worked is placed, said beam being adjusted at any height desired by means of bolts passing through slots in the standards A A.

On this beam is also a clamp, *a*, for holding the stuff.

Between the feet B B is pivoted a treadle E, connected by a short pitman, *b*, with a bar, G, which moves through a slot in the cross-bar C, and to the upper end of which is secured an oblong or rectangular box, H.

This box moves guides *d d*, attached to the inner sides of the standards A A.

The treadle E, with the bar G and box H, is thrown upward by a spring, I.

The box H is closed at its rear end, but open at the front end, and in the same is placed a block, J, which carries the chisel or knife *e*.

A screw, K, with a hand-wheel, L, at its outer end, is passed through the closed rear end of the box H into the block J, and by this means the chisel or knife may be fed by hand, if so desired.

But for the purpose of making it self-feeding I have provided the outer circumference of the wheel L with teeth, *i i*, as shown in fig. 2, and from a bar, *h*, at the upper end of one of the standards, is suspended a pawl, *m*, which gears with said teeth in the following manner:

The treadle being pressed downward, the chisel or knife is brought down into the wood; then, when the spring throws it up again, the pawl *m* will strike one of the teeth *i*, turning the wheel L a short distance, which feeds the knife inward.

Having thus fully described my invention,

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

1. As an improvement upon the machine described in my patent, No. 94,140, the combination therewith of the ratchet-wheel L' and pawl *m*, in the manner herein described.

2. The combination of the treadle E, spring I, bar G, box H, block J, screw K, toothed wheel L, and pawl *m*, all constructed and arranged to operate substantially as and for the purposes herein set forth.

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

WILLIAM H. SIBLE.

Witnesses:

ROBT. SNODGRASS,
WM. TEMPLIN.