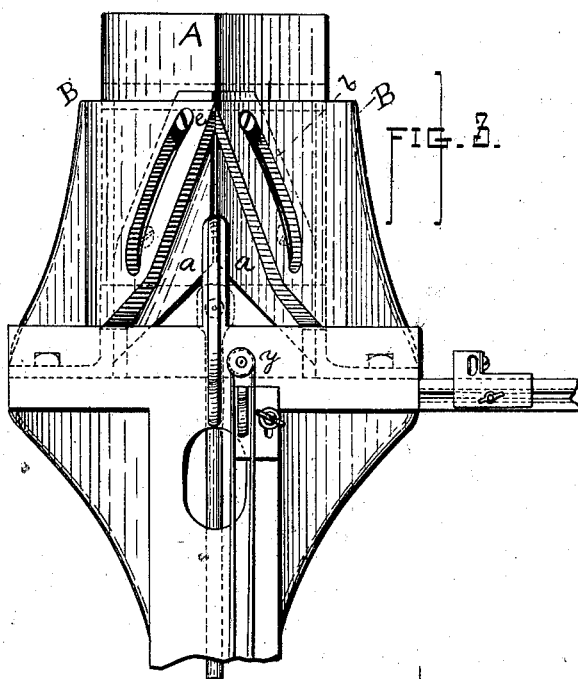
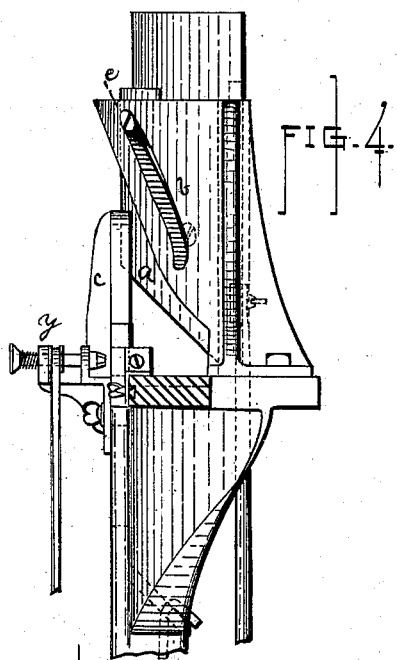
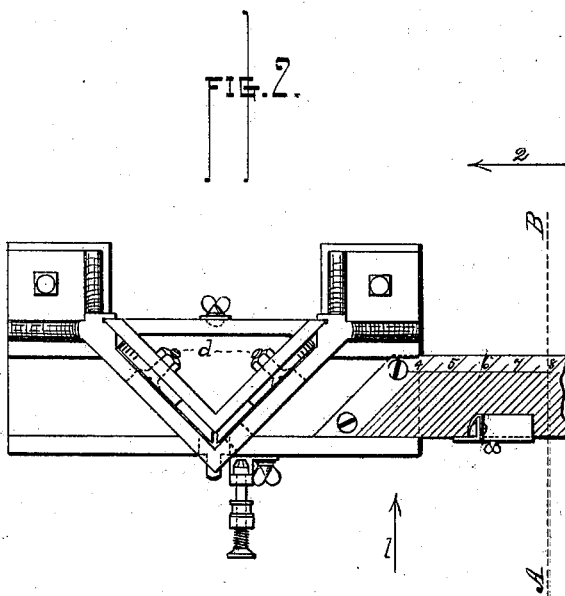
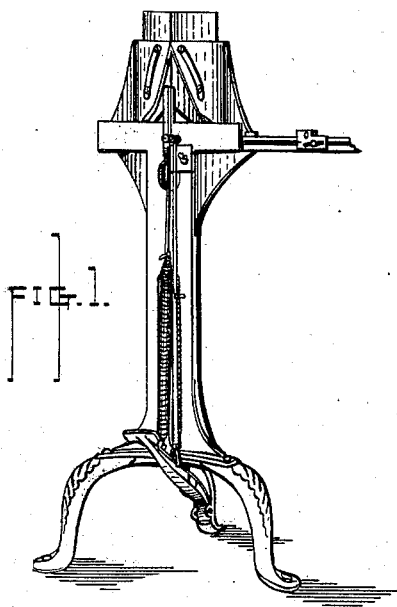


W. E. EASTMAN.  
Mitering Machine.

No. 201,657.

Patented March 26, 1878.



Witnesses;  
*J. Rittershaus*  
*A. Lees*

Inventor;  
*William E. Eastman*

# UNITED STATES PATENT OFFICE.

WILLIAM E. EASTMAN, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO  
SARAH N. EASTMAN, OF SAME PLACE.

## IMPROVEMENT IN MITERING-MACHINES.

Specification forming part of Letters Patent No. **201,657**, dated March 26, 1878; application filed  
February 8, 1878.

*To all whom it may concern:*

Be it known that I, WILLIAM EVERARD EASTMAN, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Miter-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon which form a part of this specification.

Figure 1 represents a perspective view of my improved machine. Fig. 2 represents, upon an enlarged scale, a top or plan view of so much of the machine as is necessary to illustrate my improvements. Fig. 3 represents, also upon an enlarged scale, a front view, looking in direction indicated by arrow 1, Fig. 2, of so much of the machine as is necessary to illustrate my invention; and Fig. 4 represents a section view, looking in the direction of arrow 2, Fig. 2, of the parts shown in Fig. 3.

The object of this invention is to avoid all adjustments and the use for any support under the rabbet, which is always necessary when the knives are brought down upon the molding in a straight line. To accomplish this result I use the machine herein described.

In the drawings, A is a triangular carrying device, to which the knives *a a* are pivoted by the bolts *d d*. B B are guide-plates attached to the frame in any suitable manner, and having curved slots *b b*, into which slots projections or screws *e e* from the knives extend.

In lieu of making the guide-plates B B with slots, the slots may be made in the knives, and the projections be placed upon the guide-plates B B, when the same motions will be given to the knives during their reciprocation. A support or standard extends upward in front of the knives, and the work may rest against this support. A V-shaped groove in this standard receives the front edges of the cutting-knives as they move up and down.

Another very useful and labor-saving part of my invention is a borer, placed near the point where the molding is severed, which makes the nail or brad hole at the same time the molding is severed by pressing slightly with the hand on the end of spindle, which contains a drill or any suitable borer, and made to revolve while the knives are cutting by any suitable device.

The device shown in Fig. 1 is a coil-spring, attached to the upright standard at the lower end, and a small belt at the other end passing over a small pulley on spindle, and attached to the treadle, so that downward motion of treadle revolves it to the right, and the spring revolves it back to the left while treadle is passing upward, which draws the borer easily from the molding.

With this improvement in cutting miters much time is saved and better work produced.

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

1. A reciprocating knife having a guiding-projection, in combination with a guide provided with a curved slot, substantially as described.

2. The triangular carrier and knives pivoted thereto, in combination with the guide having the curved slot, whereby a partial rotation, as well as a drawing cut, is given to the knives, substantially as described.

3. The combination of the triangular carrier, the pivoted knives, the slotted guides, and the front guide, all constructed and relatively arranged as shown and described.

4. The boring-tool *y*, in combination with reciprocating cutting-knives, when all are operated simultaneously by the same mechanism, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM E. EASTMAN.

Witnesses:

A. LEES,

F. RITTERSHAUS.