T. SCHREPPEL.
Mitering-Machine

No. 223,819. Patented Jan. 27, 1880.

Fig. 1

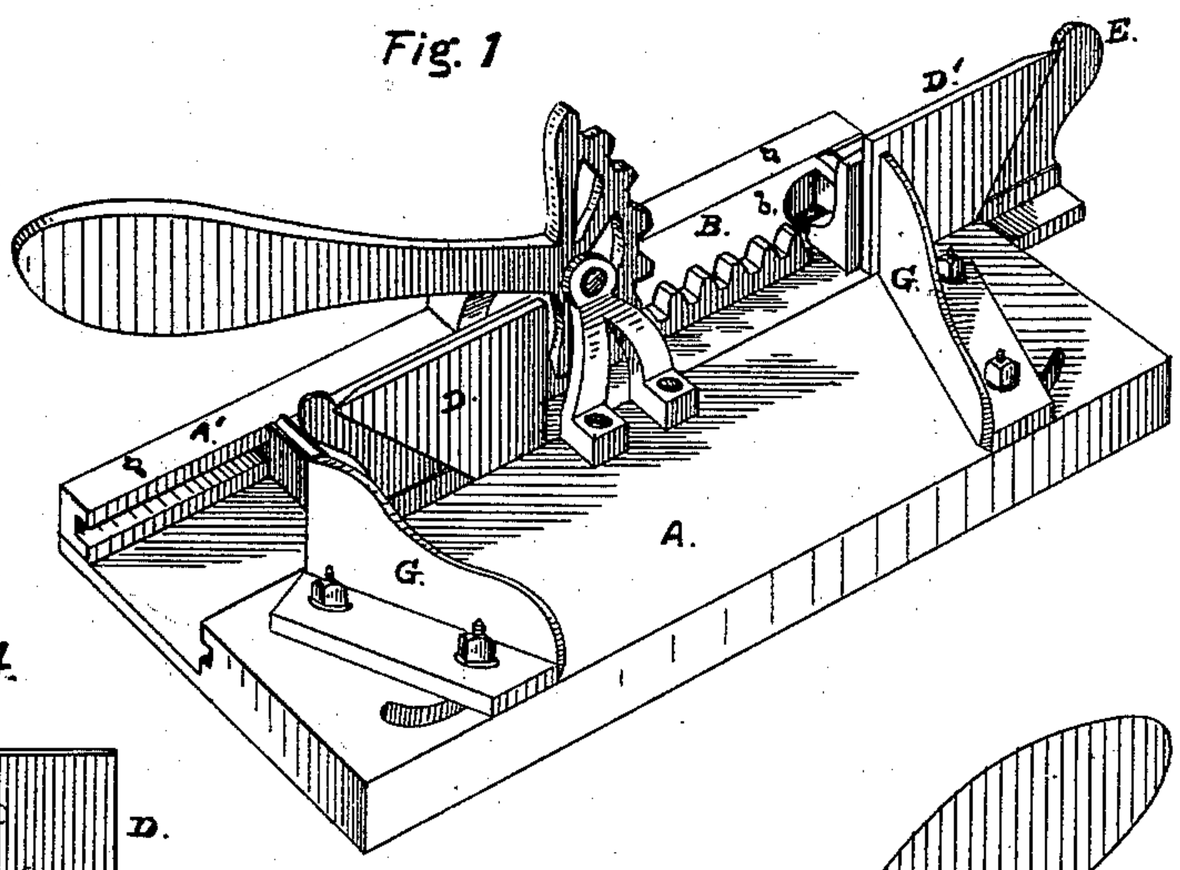


Fig. 4.

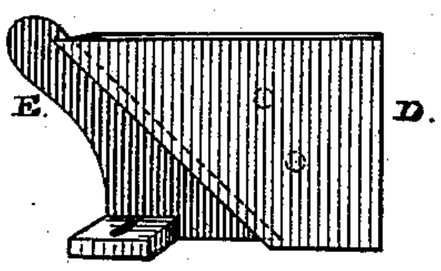
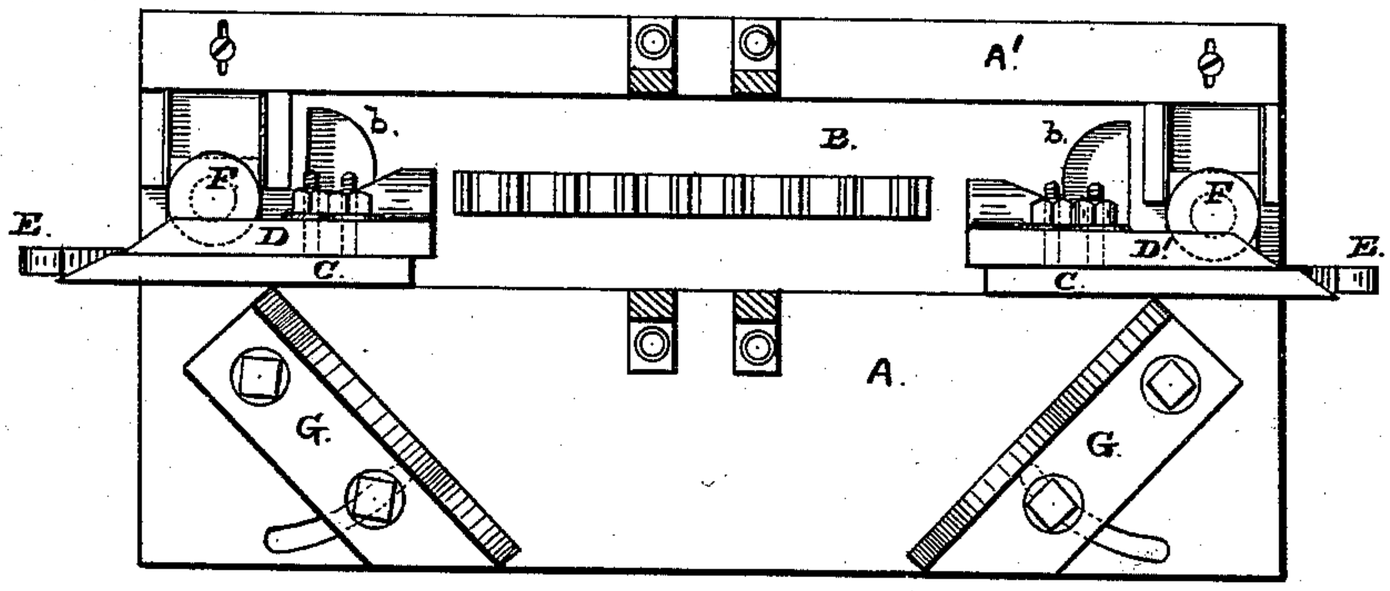


Fig. 2

Fig. 3.



Witnesses:
Edward C. Osborn.
A. Huntington

Inventor:
Theodor Schreppel,
By C. M. M. Smith
his Attorney.

UNITED STATES PATENT OFFICE.

THEODOR SCHREPPEL, OF SAN FRANCISCO, CALIFORNIA.

MITERING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 223,819, dated January 27, 1880.

Application filed July 31, 1879.

To all whom it may concern:

Be it known that I, THEODOR SCHREPPEL, of the city and county of San Francisco, in the State of California, have made and invented a new and useful Mitering-Machine, which invention is fully set forth and described in the following specification, and the accompanying drawings therein referred to.

My invention relates to certain improvements in the construction of mitering-machines for cutting picture-frame moldings to the required bevel; and it consists in the combination, with the cutters, of adjustable gages to regulate the width of the cut, and in the general construction and arrangement together of the parts of the machine, all which will be more fully set forth and described hereinafter.

In the drawings herein referred to, Figure 1 is an elevation, in perspective, of my improved machine. Fig. 2 is a side elevation; Fig. 3, a plan view; and Fig. 4 is a detail view of one of the knives and its adjustable gage.

In this machine a horizontal bed-plate has a slot, in which a plate carrying inclined knives or cutters is caused to reciprocate by means of a rack secured thereon and a segment-gear on the end of a pivoted lever. The cutters are placed at each end of the reciprocating plate, and their inclined cutting-edges are set in opposite directions. Each cutter has an adjustable gage-plate situated in front of its cutting-edge, and adjusted toward and back from the line of the face of the cutter by means of a thumb-screw. Adjustable gage-blocks on the bed-plate, back of the cutters, are arranged to be set at any required angle to cut bevels for octagon and other shaped frames.

In the drawings, A is the bed-plate; B, the reciprocating plate; C C, fixed brackets thereon for holding the cutters; D D′, the knives or cutters, secured in position by bolts which pass through slots in the brackets; and E E, the adjustable gages, held in place by the thumb-screws F F and the ribs on the plate B.

G G are the gage-blocks upon the bed-plate, for holding the picture-moldings at the required angle in presenting the ends to the cutters.

The part A′ of the bed-plate that holds the plate B in place is adjustable by the slots and set-screws, so that any wear may be taken up and the cutters caused to work smoothly without springing.

The cutters can be readily taken off for sharpening and set forward as they wear down.

The gage-plates in front of the cutters allow the size of the shavings or cuttings to be regulated and the amounts to be taken off the end of the molding to be graduated at pleasure.

The reciprocating plate B is cut away at each end in front of the cutters, so that an open space, *b*, is provided, to catch and carry out the chips and shavings beyond the ends of the machine as the plate reciprocates, by which the cutters and their reciprocating plate are prevented from being clogged or choked.

As thus constructed, my machine is operated in the following manner: The lever is grasped by the right hand of the operator, while the molding is laid against the gage-block with the left hand and pressed forward until the end thereof comes in contact with the face of the gage-plate in front of the cutter. The molding is then held while the lever is oscillated and the cutter caused to act against the end of the molding. The opposite end of the molding is then cut by simply reversing it and placing it against the other gage-block. No change of position, therefore, on the part of the operator is required, and the work is performed with greater facility and a saving of time.

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

1. In combination with the plate B, having knife-carriers D D′, with cutters C C secured thereto, the transversely-adjustable gage-plate E and means for adjusting the same in front of the cutting-edge to and from the plane of the face of the cutter, for the purpose of gaging the depth of the cut, substantially as specified.

2. A mitering-machine consisting of a horizontal bed-plate, A, a horizontally-reciprocat-

ing cutter-plate, B, working in a slot or guides in said bed-plate, a set of knives or cutters, D D′, arranged upon said plate with their cutting-edges facing in opposite directions to each other, an adjustable gage-plate, E, held upon said cutter-plate in front of each cutter, and adjustable with respect to the cutting-edge, as described, and the adjustable guides G G on the stationary part A of the machine, all constructed and combined together to operate substantially as described and specified.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of June, 1879.

THEODOR SCHREPPEL.

Witnesses:

EDWD. E. OSBORN,

JAMES C. WARD.