

W. W. MACKEY.
Miter-Gage.

No. 223,053.

Patented Dec. 30, 1879.

Fig. 1.

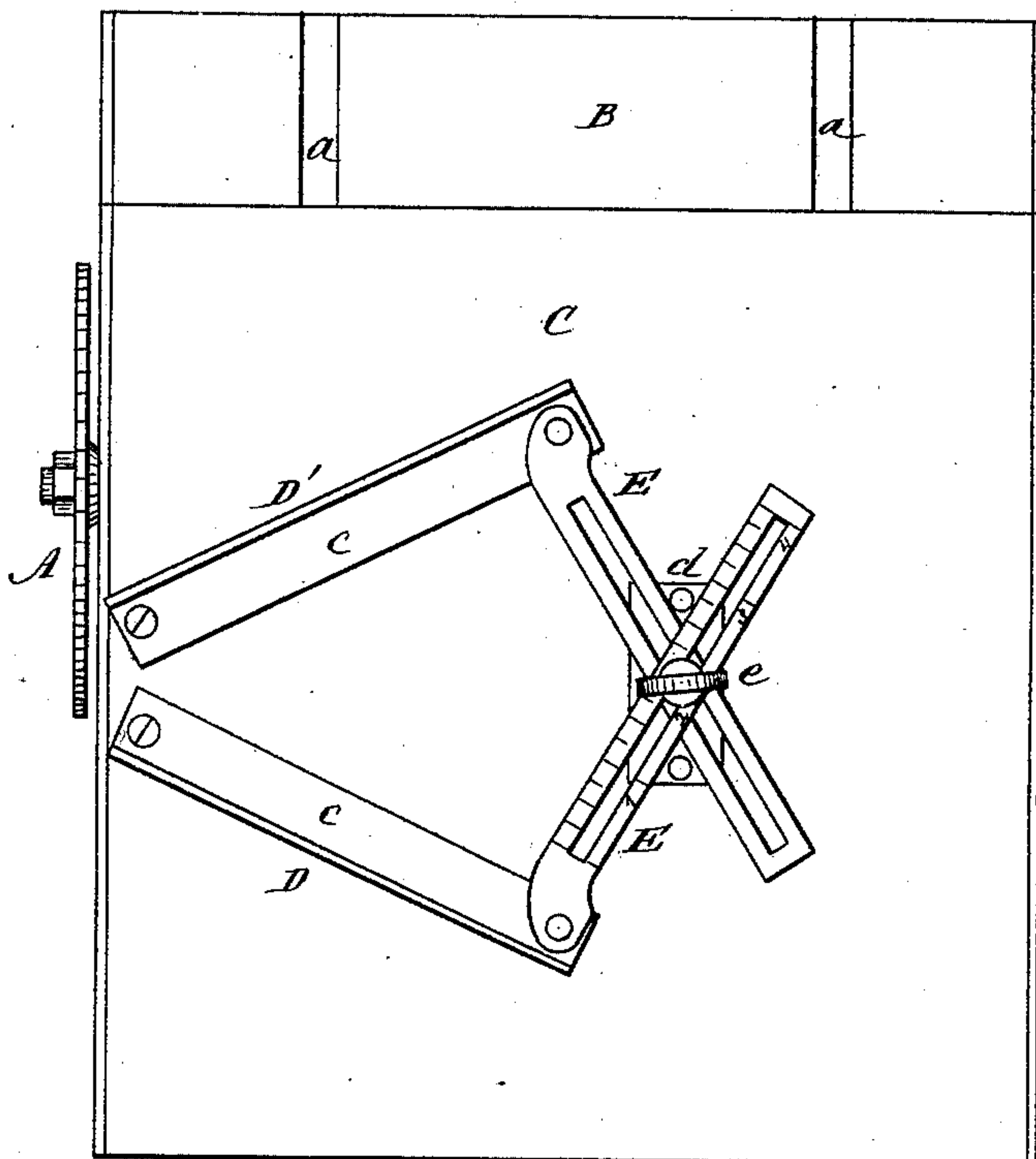
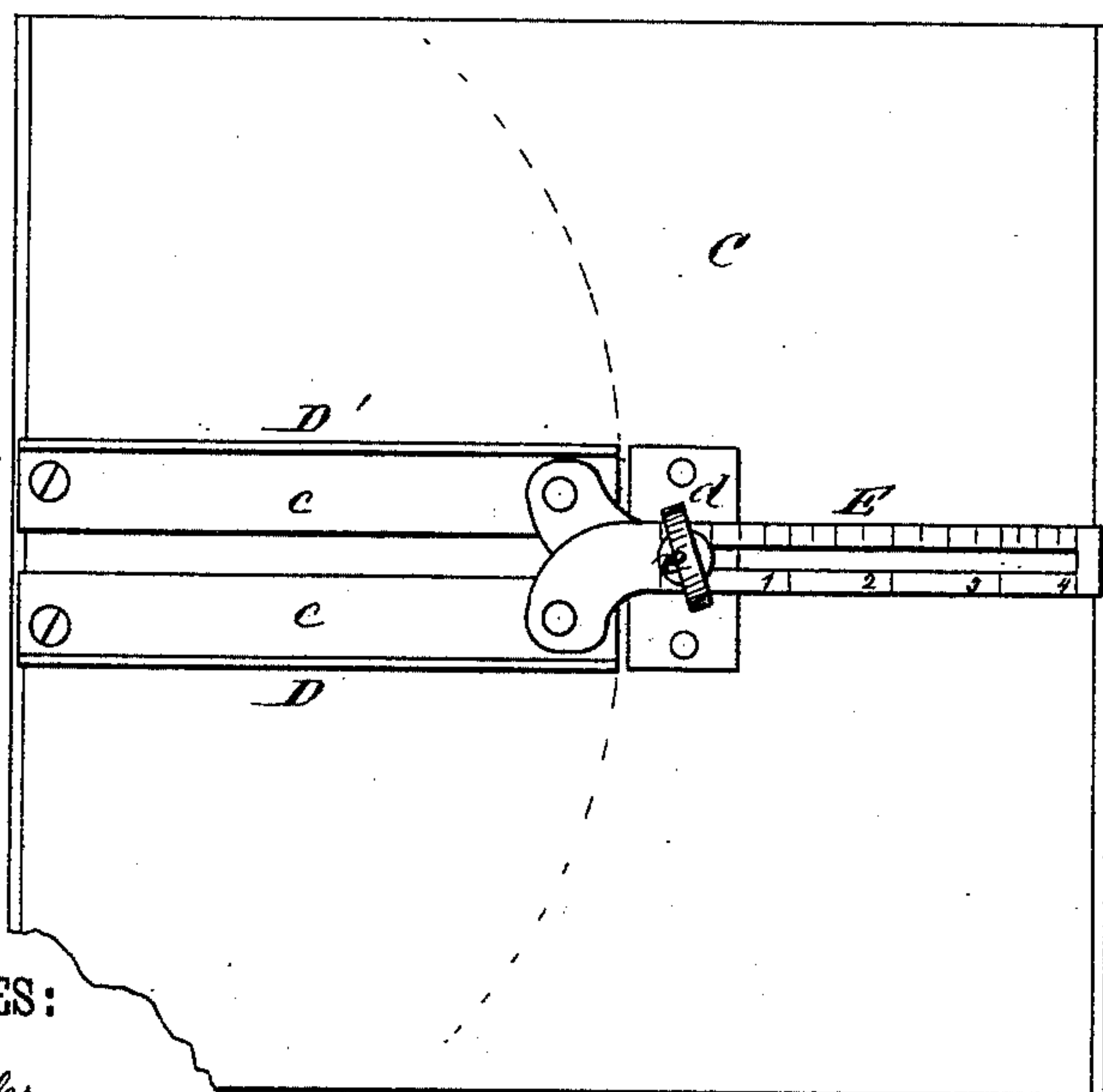


Fig. 2.



WITNESSES:

Henry N. Miller
C. Sedgwick

INVENTOR:

BY

W. W. Mackey
Mum Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM W. MACKEY, OF GALION, OHIO.

IMPROVEMENT IN MITER-GAGES.

Specification forming part of Letters Patent No. **223,053**, dated December 30, 1879; application filed August 25, 1879.

To all whom it may concern:

Be it known that I, WILLIAM W. MACKEY, of Galion, in the county of Crawford and State of Ohio, have invented a new and Improved Miter-Gage, of which the following is a specification.

The object of my invention is to provide an adjustable gage for cutting bevels for miter-joints with a circular saw, and for cutting them on opposite ends of the molding without changing the gage.

It consists of two gages pivoted at one end to the sliding bed on the side next to the saw, and having the opposite ends pivoted to levers or arms having longitudinal slots, which are crossed and secured together and to the bed by a set-screw passed through the slots at the junction. These arms are designed to be graduated so as to permit the gages to be set readily at any desired angle to the saw.

In the accompanying drawings, Figure 1 is a top plan of my improvement attached to the bed and arranged to hold the molding in position to be cut to a bevel, and Fig. 2 is a similar view with the gages adjusted for a square cut.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A is the saw. B is the table. *a a* are dovetailed grooves parallel to the saw. C is the movable bed, held on the table by dovetailed cleats entered into grooves *a a*, which prevent the bed from lifting, but allow it perfect freedom of movement back and forth parallel to the saw.

D D' are the gages, composed of right-angled plates placed upon the bed with the horizontal portions *c c* inside, and with the ends pivoted close to the edge of the bed on the side next to the saw, and about half-way

of the length of the table. The opposite ends are pivoted to the ends of arms or levers E E, longitudinally slotted, which are crossed over a plate, *d*, let into the bed, and secured together and to the bed by a set-screw, *e*, passed down through the slots into plate *d*, as shown.

The gages can be moved from a position parallel to each other and at right angles to the saw, as in Fig. 2, to acute angles to the saw, as in Fig. 1, by loosening the set-screw and pushing the free ends in by means of the slotted arms, and, when placed in the proper position, screwing the set-screw down against the arms.

When properly set the molding is placed against one of the gages D, with the end projecting across the plane of the saw. The bed is then pushed, carrying the molding against the saw, which cuts off at the proper angle. The bed is then drawn back, the ends reversed, and the molding placed against gage D', as before, and pushed against the saw, which bevels off the end in the opposite direction, thus beveling the two ends in the proper direction without changing the gage.

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

In devices for cutting miter-joints with a circular saw, the two gages D D', having ends pivoted near together at one edge of the sliding table, and connected by a pivot with slotted arms E, adjustably held by a single set-screw, as shown and described, whereby a miter may be cut on both ends of a molding without reversal of the gaging device.

WILLIAM WESTLEY MACKEY.

Witnesses:

JAMES MACKEY,
J. P. REISINGER.