

(No Model.)

M. C. PATRICK,
MITERING MACHINE.

No. 356,326.

Patented Jan. 18, 1887.

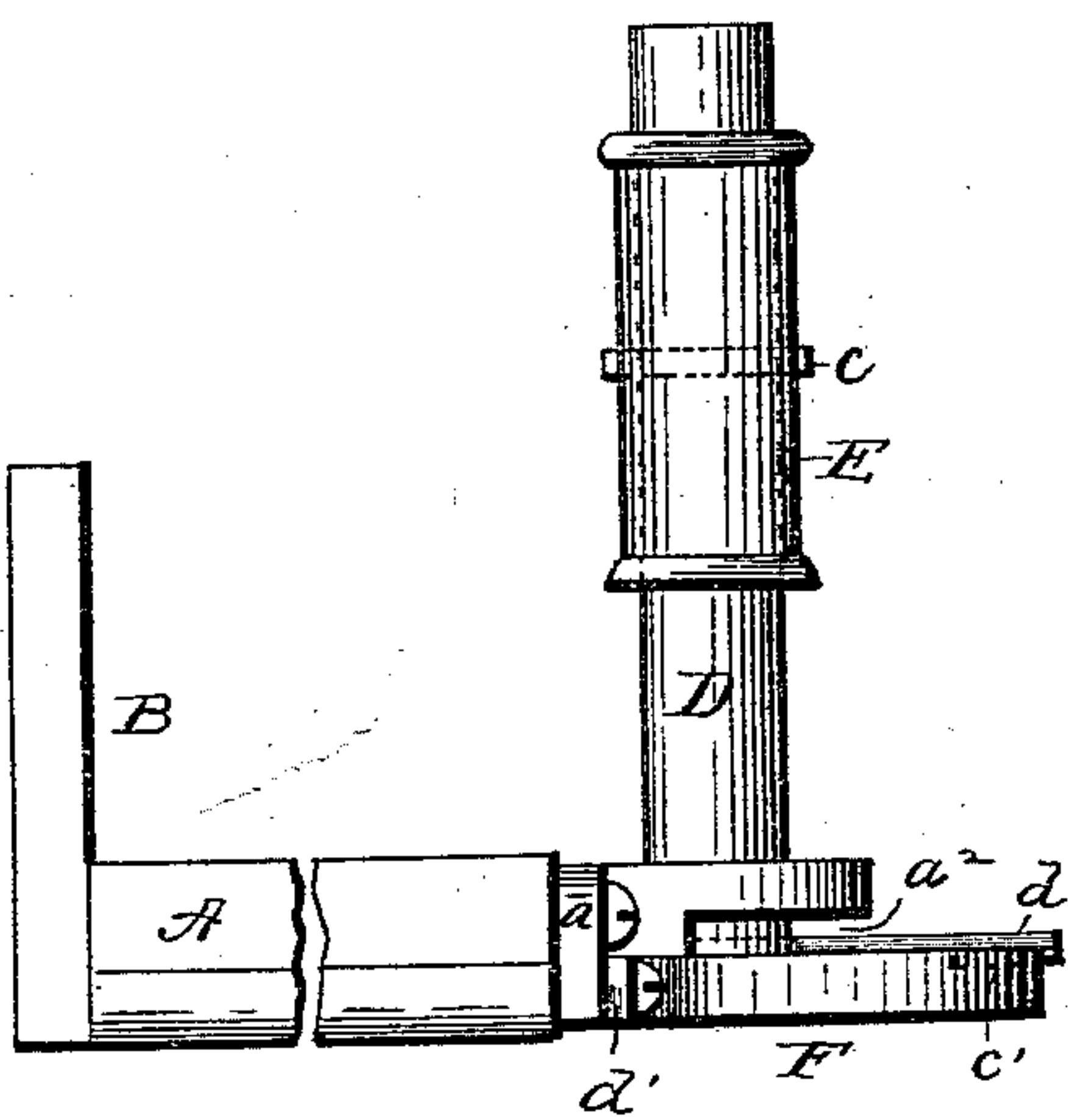
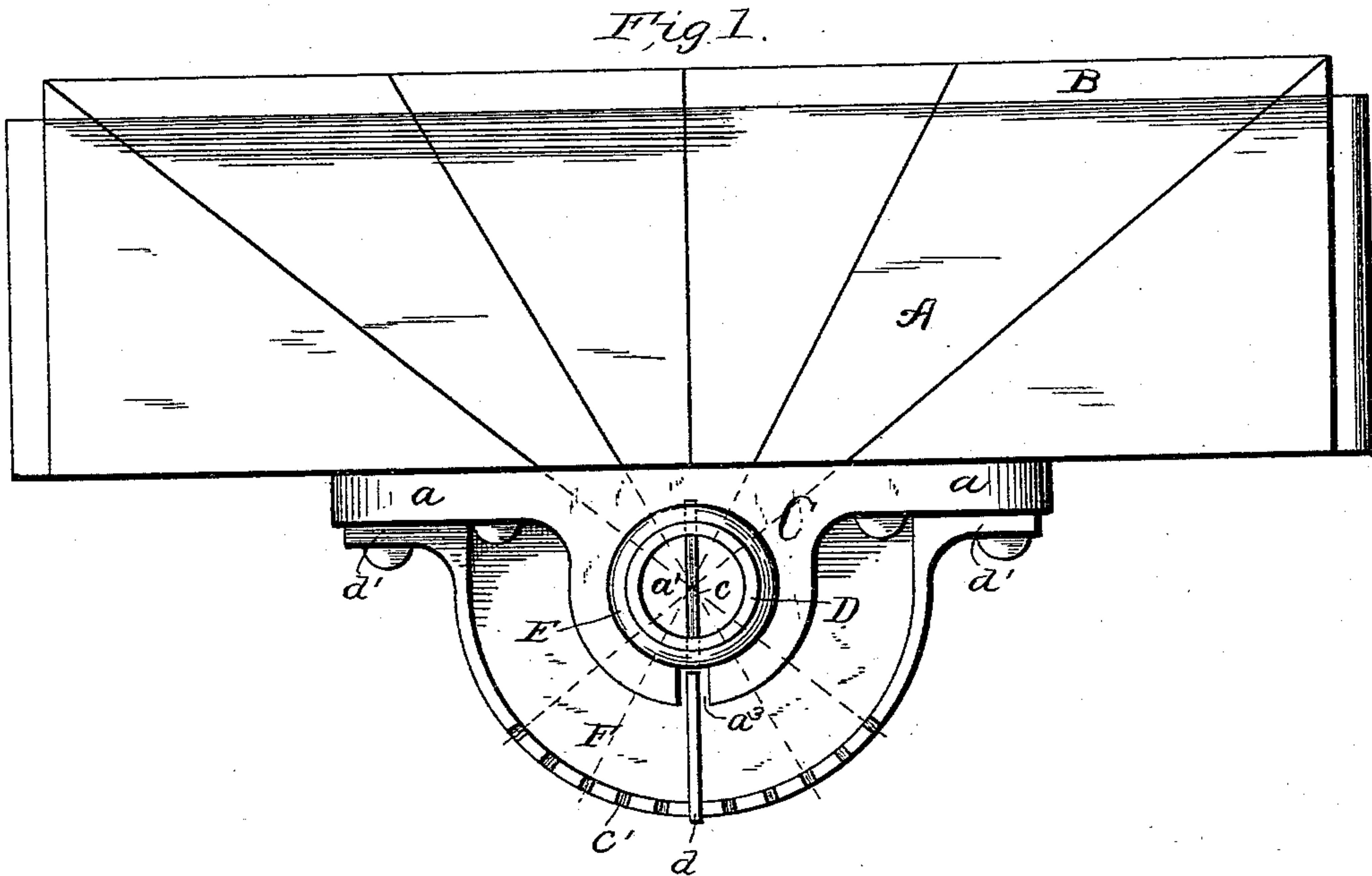


Fig. 2.

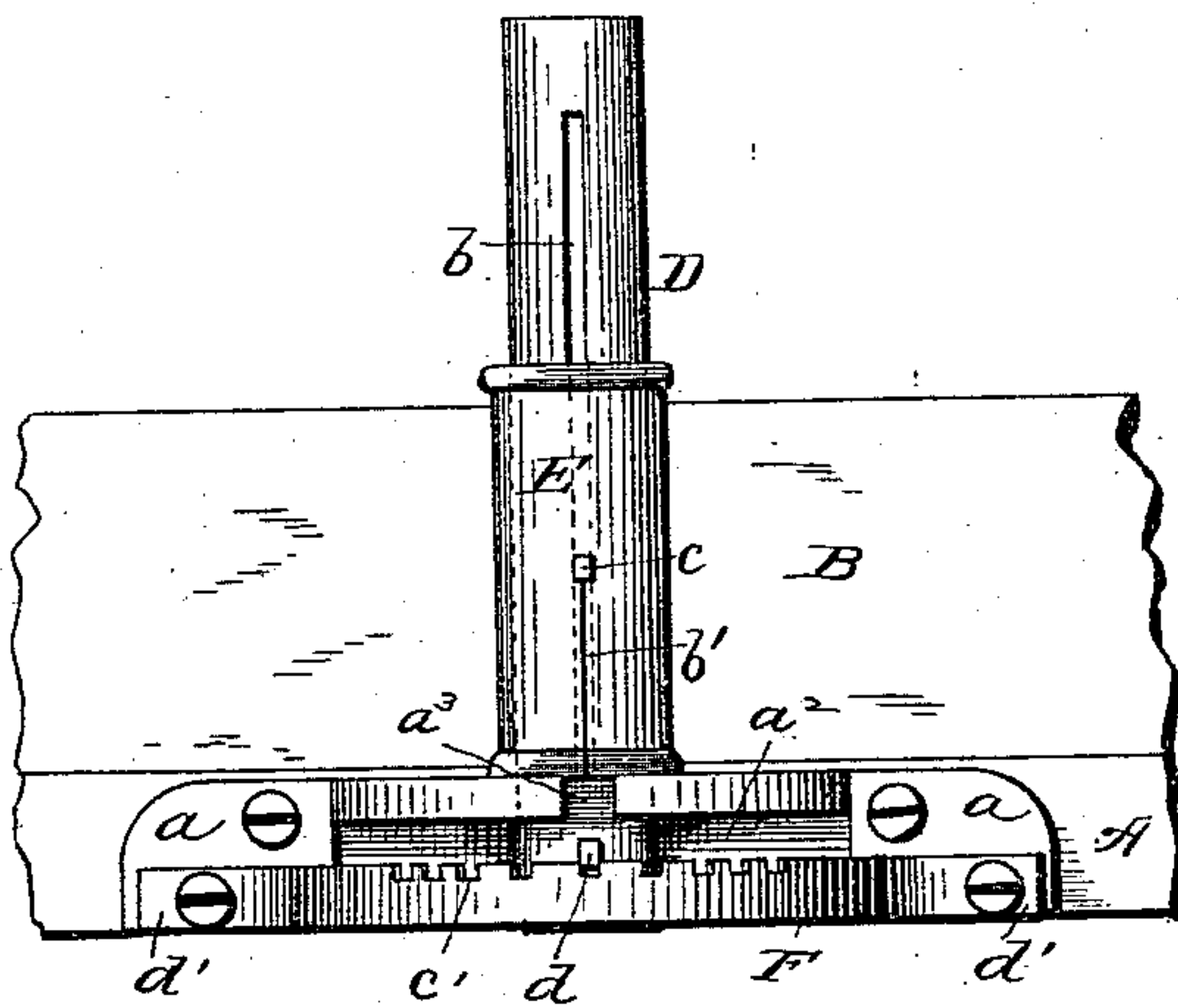


Fig. 3.

Witnesses

Wm. R. Rembaum
A. Ruppert

Inventor

Marcus C. Patrick

By his Attorney *W. Purvis*

UNITED STATES PATENT OFFICE.

MARCUS C. PATRICK, OF MUSCATINE, IOWA, ASSIGNOR OF ONE-HALF TO
JAMES M. WIER, OF SAME PLACE.

MITERING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 356,326, dated January 18, 1887.

Application filed August 31, 1886. Serial No. 212,335. (No model.)

To all whom it may concern:

Be it known that I, MARCUS C. PATRICK, a citizen of the United States of America, residing at Muscatine, in the county of Muscatine and State of Iowa, have invented certain new and useful Improvements in Mitering-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to the wood-working machines which are used for mitering the ends of boards, moldings, or other parts of structures; and the invention consists of the construction and combinations of the parts of the machine, as hereinafter fully set forth and claimed.

In the drawings, Figure 1 is a plan view. Fig. 2 is a side elevation. Fig. 3 is a front elevation.

A B designate the base and back of a miter-board.

C is a semicircular plate having the lugs $a a$, provided with screw-holes for attaching the plate to the base A, and having a circular opening, a' , a horizontal slot, a^2 , and a vertical slot, a^3 .

D designates a hollow post, the lower portion of which is made to fit neatly, but movably, in the opening a' of the plate C. The walls of this post are provided with the opposite slots, b , which slots are wider than the set of the teeth of the same to be used with the machine, and the posts and slots are of sufficient length to allow all required adjustment and movement of the mitering-saw.

E is a sleeve made to fit neatly, but so as to move freely, over the post. The walls of this sleeve are provided with opposite slots, b' , open at the lower end of the sleeve, and these slots are wide and long enough only to receive the blade, but not the teeth, of the mitering-saw. At the upper termination of these slots b' is a steel pin, c , inserted through the slots in the post. This pin is made to fit neatly, but to slide freely, in the slots of the post, and the said pin serves the purposes of preventing the saw-teeth from striking or rubbing against the

walls of the post and preventing unnecessary lateral play of the sleeve upon the post.

F designates a curved plate the upper edge of which is provided with the scaled notches c' , to receive and hold in place the pin d , attached to the lower portion of the post. This plate is provided with perforated lugs d' , for attaching the plate to the miter-board, as shown.

The horizontal slot a^2 in plate C is for allowing the required lateral movements of the pin d on the post, and the vertical slot a^3 is to allow the requisite vertical movements of the pin in inserting the post in and removing it from its socket in the plate.

In mitering with this machine the board, molding, or other piece to be mitered being placed in position on the miter-board, the angle to be cut is obtained by the adjustment of the pin d in the required notch in the plate F, and the saw inserted through the slots in the sleeve and post is held and guided so as to cut a miter on the required angle.

The parts of this machine may be readily detached from the miter-board and from each other, and may be packed in a tool-chest in small space for safe keeping and for transportation.

What I claim as new in a mitering-machine, and desire to secure by Letters Patent, is—

The combination of the plate C, provided with the opening a' and the slots $a^2 a^3$, the plate F, having the scaled notches c' , the slotted post D, having its lower portion fitted and inserted in the opening a' and provided with the pin d , and the slotted sleeve E, fitted to slide vertically over the post, and provided with the pin c , fitted to and inserted through the slots in the post, substantially as and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

MARCUS C. PATRICK.

Witnesses:

T. R. FITZGERALD,
JOHN MARK.

Correction in Letters Patent No. 356,326.

It is hereby certified that in Letters Patent No. 356,326, granted January 18, 1887, upon the application of Marcus C. Patrick, of Muscatine, Iowa, for an improvement in "Mitering-Machines," an error appears in the printed specification requiring correction, as follows: In line 32 the word "same" should read *saws*; and that the Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 25th day of January, A. D. 1887.

[SEAL.]

Countersigned:

R. B. VANCE,

Acting Commissioner of Patents.

D. L. HAWKINS,
Acting Secretary of the Interior.