

J. H. ROWLAND.
Mitering-Machines.

No. 146,403.

Patented Jan. 13, 1874.

Fig. 1.

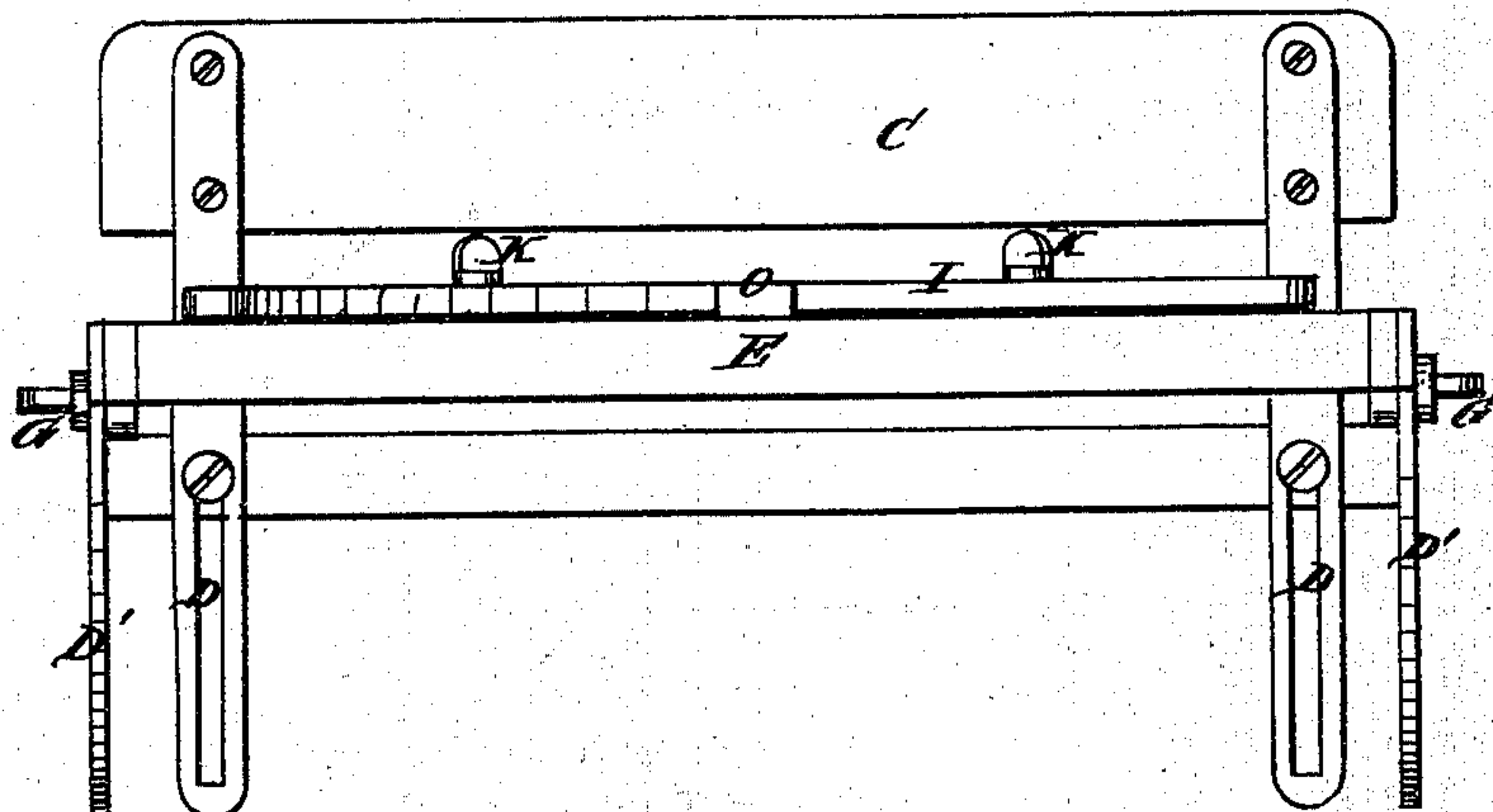


Fig. 2.

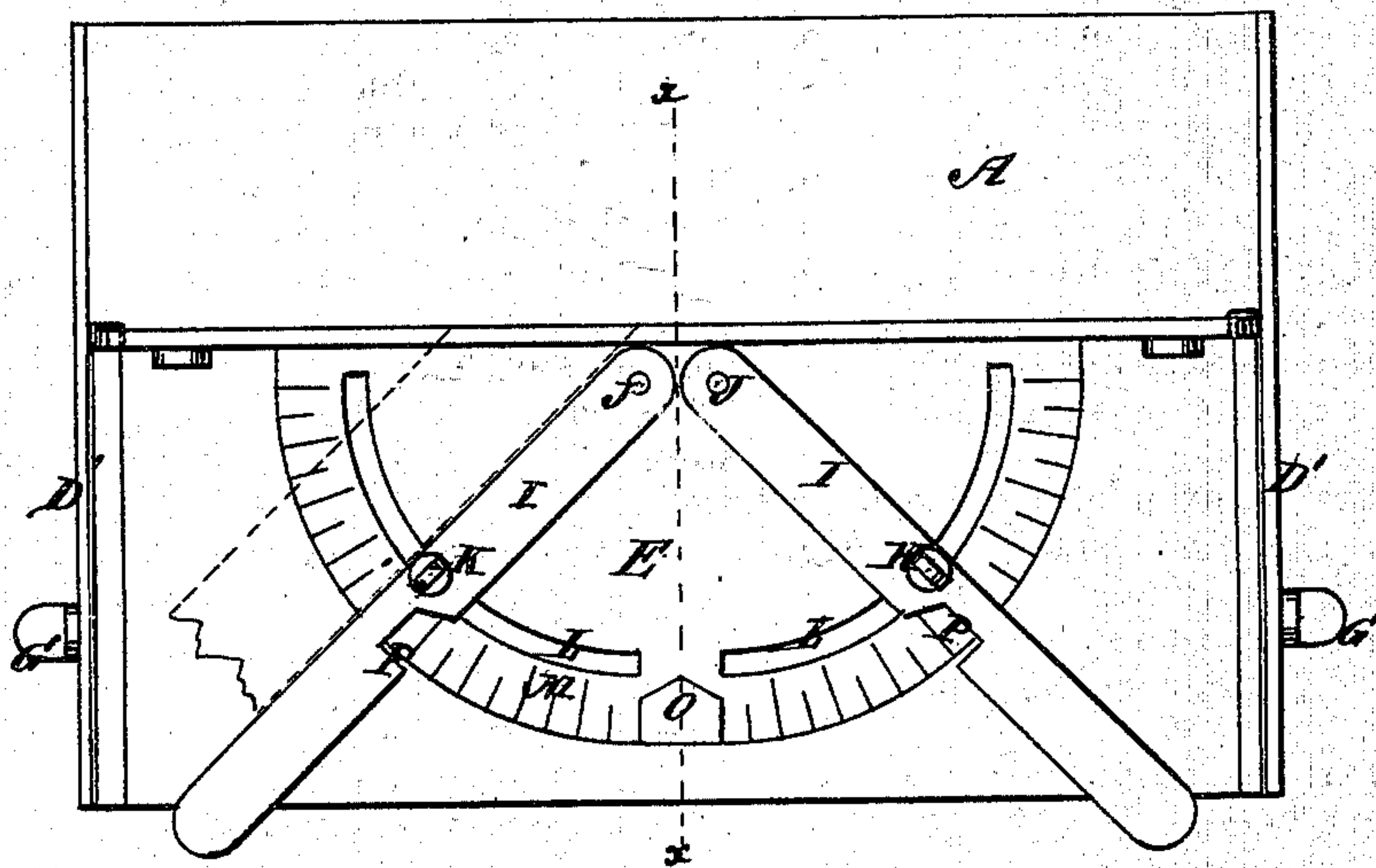


Fig. 4.

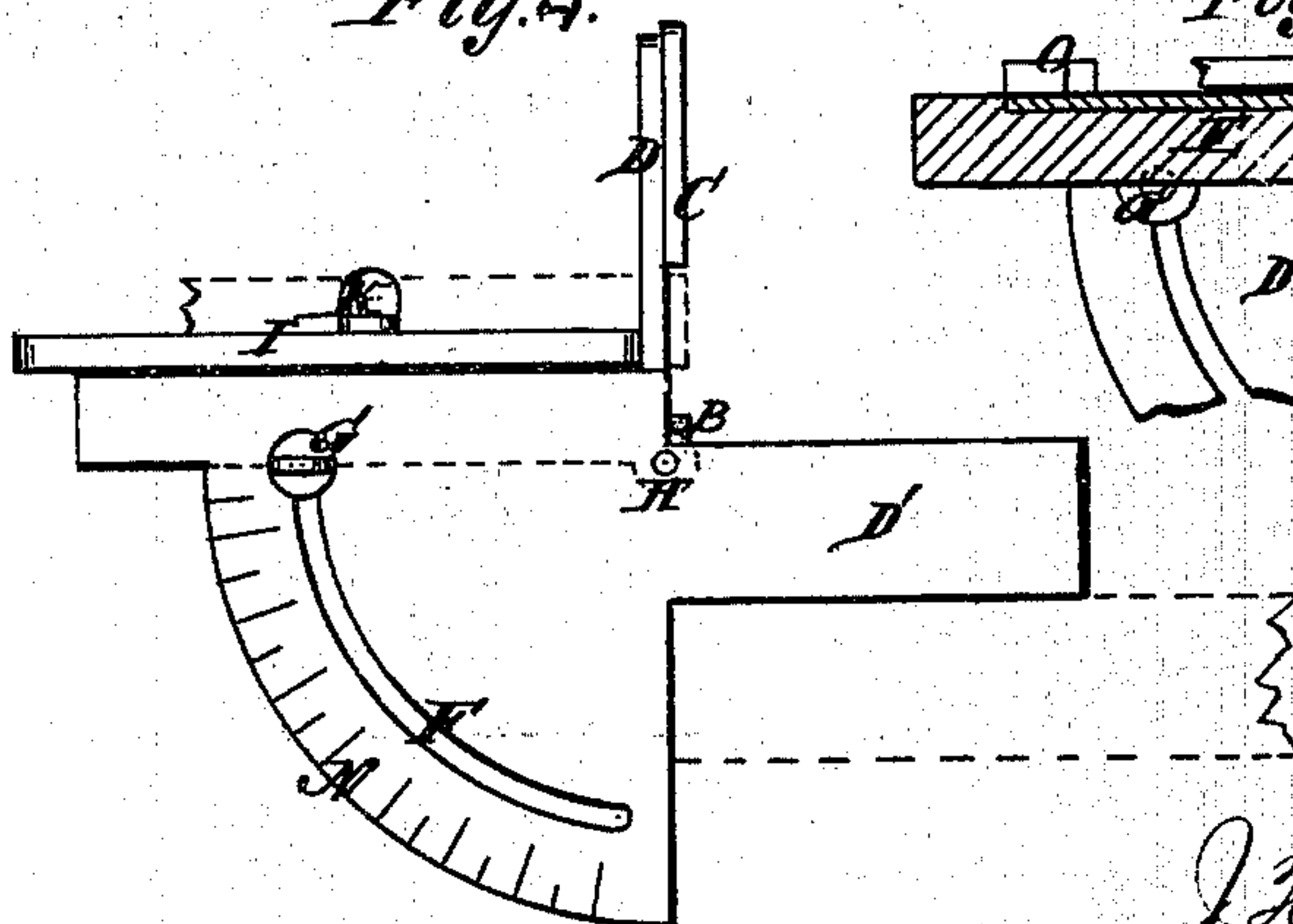
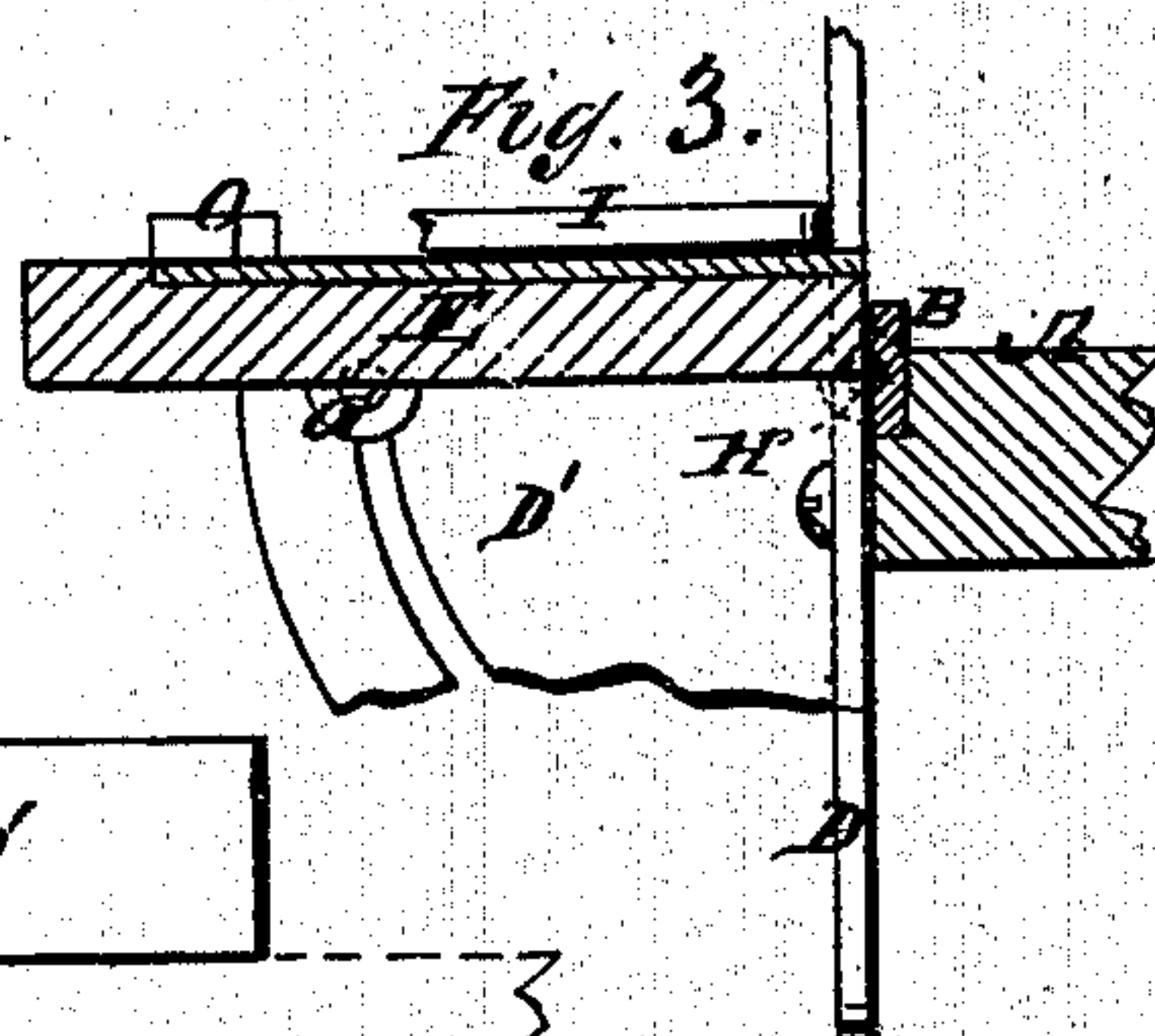


Fig. 3.



WITNESSES:

E. Wolff
C. Senquick

INVENTOR:

BY

J. H. Rowland
Mumby

ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN HENRY ROWLAND, OF DENVER, COLORADO TERRITORY.

IMPROVEMENT IN MITERING-MACHINES.

Specification forming part of Letters Patent No. **146,403**, dated January 13, 1874; application filed November 8, 1873.

To all whom it may concern:

Be it known that I, JOHN H. ROWLAND, of Denver, in the county of Arapahoe and Territory of Colorado, have invented a new and Improved Mitering-Machine, of which the following is a specification:

This invention consists of a saw-guide and plane-guide for controlling the saw and plane in cutting off and smoothing the wood sticks, with which there are a couple of shifting-stops and a scale for a guide, by which to adjust the stops against which the wood pieces are held for sawing bevels of any angle, right or left, and the support for said stops is jointed to the saw and plane guide so as to be adjusted around its major axis, and at right angles to the direction in which the shifting-stops change the angles of the miters for making "splayed" miters.

Figure 1 is a front elevation of my improved mitering-machine. Fig. 2 is a plan view. Fig. 3 is a sectional elevation taken on the line *xx* of Fig. 2; and Fig. 4 is an end elevation.

Similar letters of reference indicate corresponding parts.

A is a bed piece to be bolted or otherwise fastened to the work-bench; B and C, the saw and plane guide, supported above the front edge, at right angles to its surface, the part C being on the metal bars D, which are secured to the front edge of the bed, so that they can be shifted up or down to adjust said part C as far above the part B as required by the width of the plane and the stuff to be sawed, the latter being presented from the left-hand side, so as to project through the space between the two parts far enough to be sawed off and planed by the saw and plane running alongside of the saw-guide, the plane being turned over on one side, and its bottom placed against the guide, outside of the plane-bit, so that the latter does not come in contact with the guide. D' represents metal plates attached to the ends of the bed, and projecting beyond the saw and plane guide to the left, about as far as the

width of the table E, which holds the work, and having a curved slot, F, near the left end, which is considerably widened to make sufficient breadth for the required length of the slot, in which works a binding-screw, G, which screws into the end of the work-table E, which is pivoted at H in the plane of the saw and plane guide, so as to swing down below the horizontal plane to any degree that may be required for making splayed miters. The table has two adjustable stops, I, against which the wood pieces are held for sawing and dressing them to make the miters, one for right and the other for left hand bevels, said stops being pivoted at J, near the saw and plane gage, and having a binding-screw, K, working in a curved slot, L, in the table, for holding the stops fast. A scale, M, is provided for the stops I, and another at N for the vertical adjustment of the table. The stops I swing around to a right angle to the saw and plane gage, and meet there against a stationary stop, O, for which said stops I are each notched at P, so that they are not arrested until they meet together, and come to a right angle with the saw and plane guide.

Thus I have contrived a more simple and efficient machine for sawing and smoothing ordinary miters of any angle, also splayed miters, than any heretofore made, as I believe.

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

1. The combination of the bed A, saw and plane guide B C, work-table E, and adjustable stops I, for sawing and smoothing miters, substantially in the manner described.

2. The work-table E, jointed to the bed, and the saw and plane guide, and having the fastening-screws G, substantially as specified.

JOHN HENRY ROWLAND.

Witnesses:

GILBERT STANLEY,
JAMES STAPLES.