

M. O. ROYCE.

MITRE BOX.

No. 118,748.

Patented Sep. 5. 1871.

Fig 1

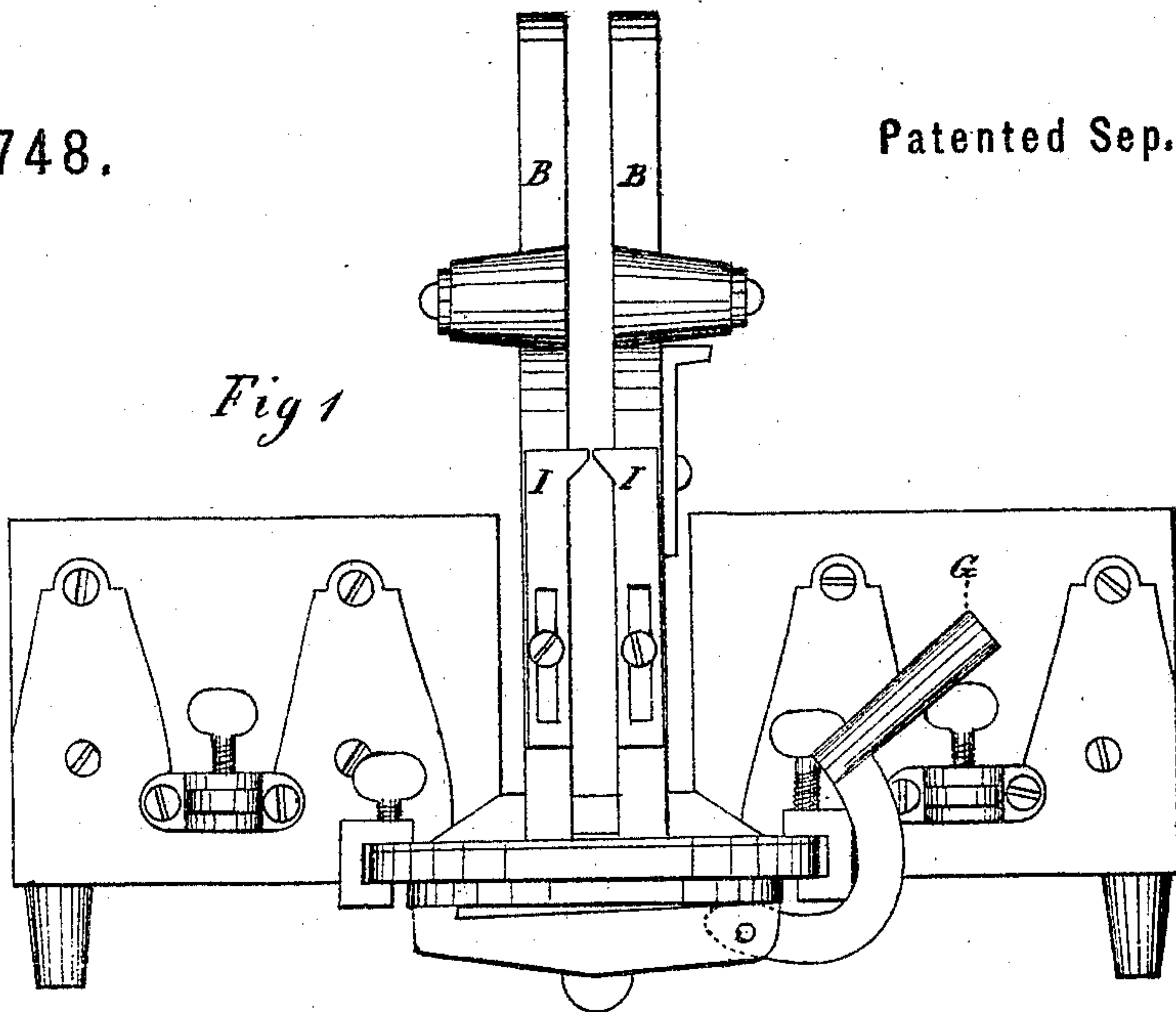


Fig 2

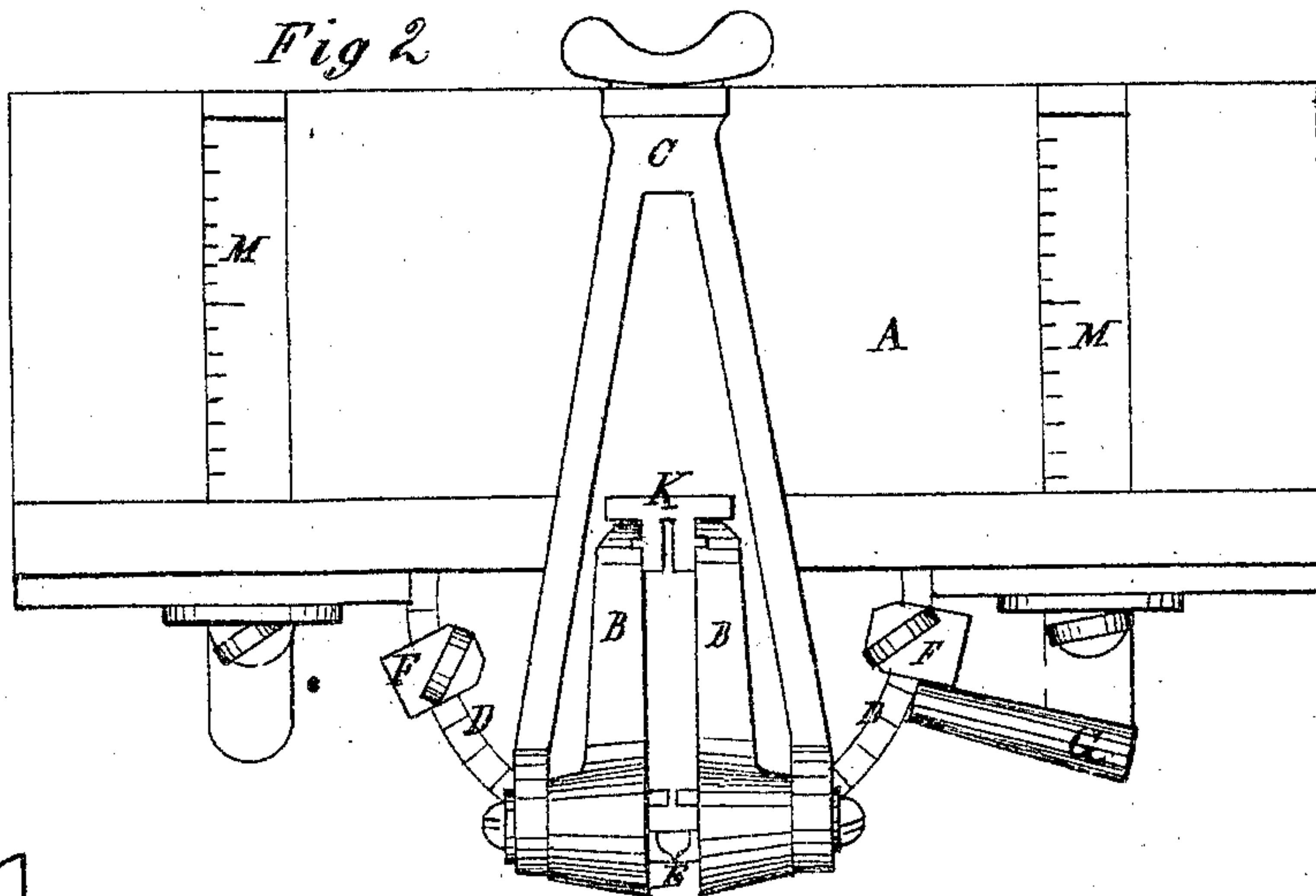
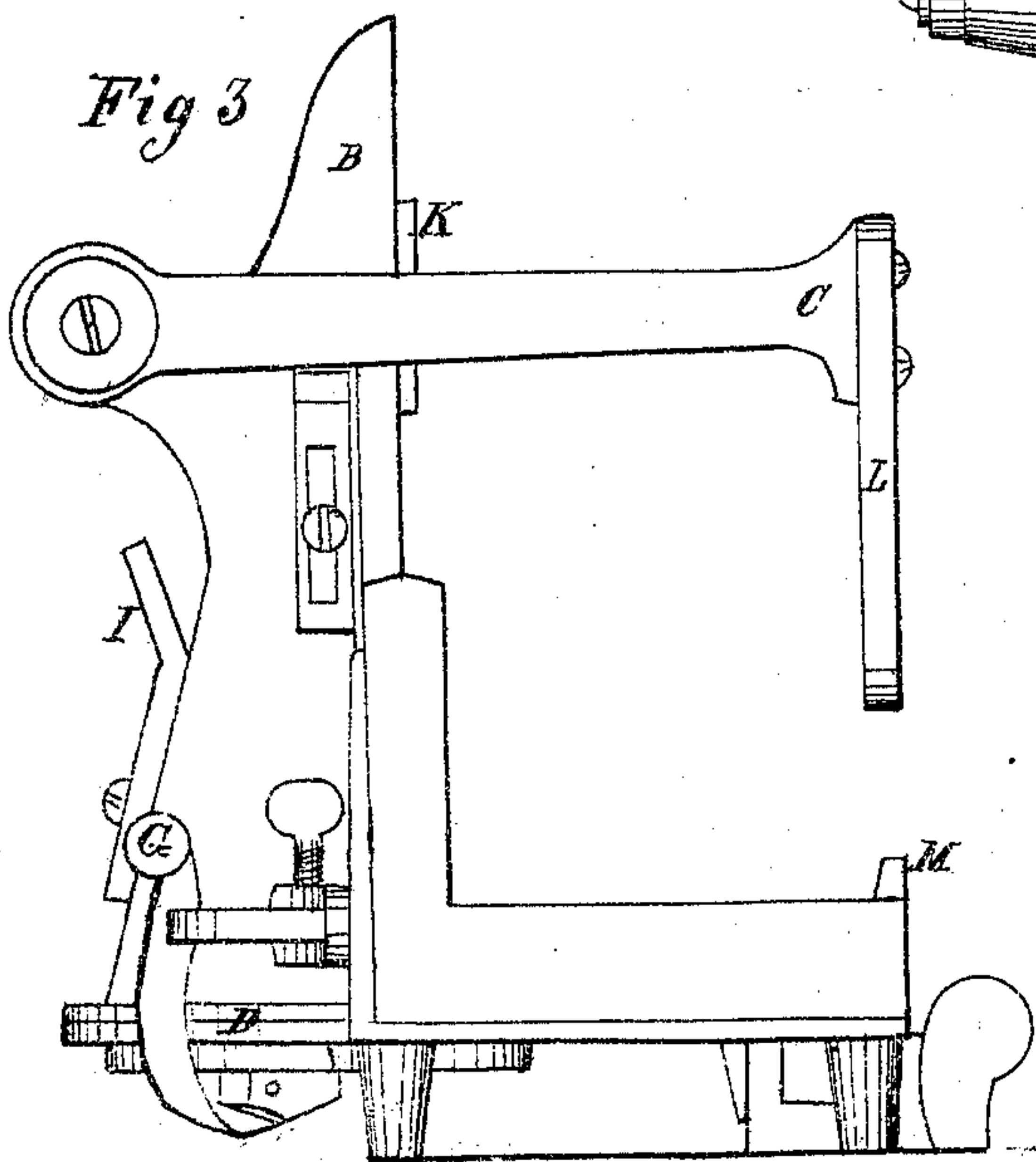


Fig 3



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Witnesses.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN MITER-BOXES.

Specification forming part of Letters Patent No. 118,748, dated September 5, 1871.

*To all whom it may concern:*

Be it known that I, MARVIN OVEN ROYCE, of East Cambridge, Middlesex county, in the State of Massachusetts, have invented a new and useful Improvement in Miter-Boxes; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawing forming part of this specification.

My invention consists, first, in hinging the guide to the revolving standard; second, in adjustable stops to arrest the revolution of the index, and also in other improvements.

In the accompanying drawing, Figure 1 is a back-side view of my improved miter-box. Fig. 2 is a top view of the same. Fig. 3 is an end view.

In the construction of my improved miter-box the bed A is made of iron, which will not warp or spring. In this bed a socket is made to receive the guide-stand B, which is fitted into said socket with a perfect joint, so as to revolve with ease. This standard B carries the swivel-guide C, which may be adjusted to any desired angle at pleasure. The bed is provided with a graduated scale, D, and the revolving standard carries an index, E, which shows upon the scale the exact distance or number of degrees which the swivel-guide is revolved upon the bed. The index is provided with adjustable stops F for checking the revolution of the swivel-guide when several cuts of the same kind are to be made. The revolving standard B is fixed or released at pleas-

ure by means of the cam-lever G. The swivel-guide C, as already mentioned, is hinged to the standard B and swings freely up and down, the distance to which it may fall being limited by the slotted and adjustable stop H upon the side of the standard. By this means, in connection with the adjustable stops I on the back side of the standard B, the distance to which the saw may descend is fixed at pleasure.

The saw being placed in the sliding guide K, and also between the guides L, both ends of the saw are accurately guided. As the cutting proceeds the guide K descends, and the depth of the cut is limited by the back of the saw striking against the top of the guides L and also against the stops I.

On the bed of the miter-box are two graduated and adjustable guides, M, which may be set to any desired width of molding, at pleasure, by means of the thumb-screws N. The miter-box is fastened to the bench by means of the clamp O, which is hinged to the box and provided with a set-screw, P, in the usual manner.

Having described my invention, I claim—

1. The guide C, when hinged to the revolving standard B, substantially as set forth.
2. The stops F, in combination with the standard B and swivel-guide C, substantially as set forth.

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Witnesses:

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(21.)