

No. 670,941.

Patented Apr. 2, 1901.

M. A. K. SHOTWELL.

MITER BOX.

(Application filed Aug. 18, 1900.)

(No Model.)

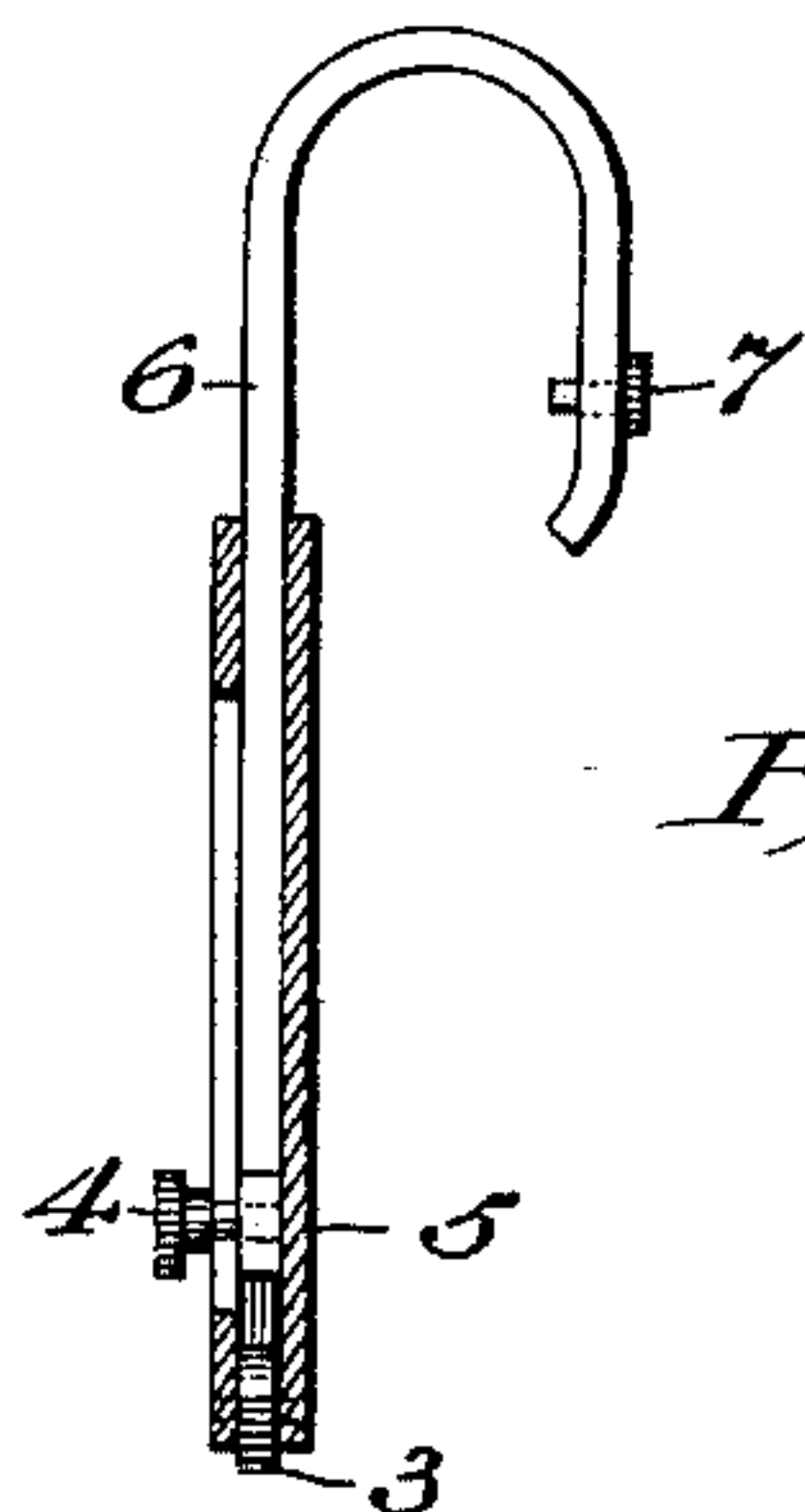


Fig. 1.

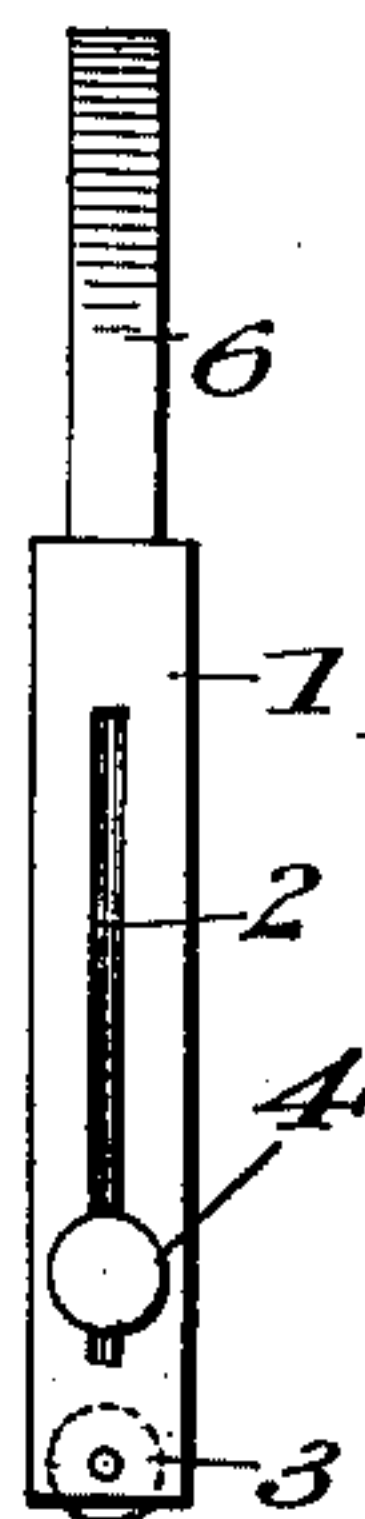


Fig. 2.

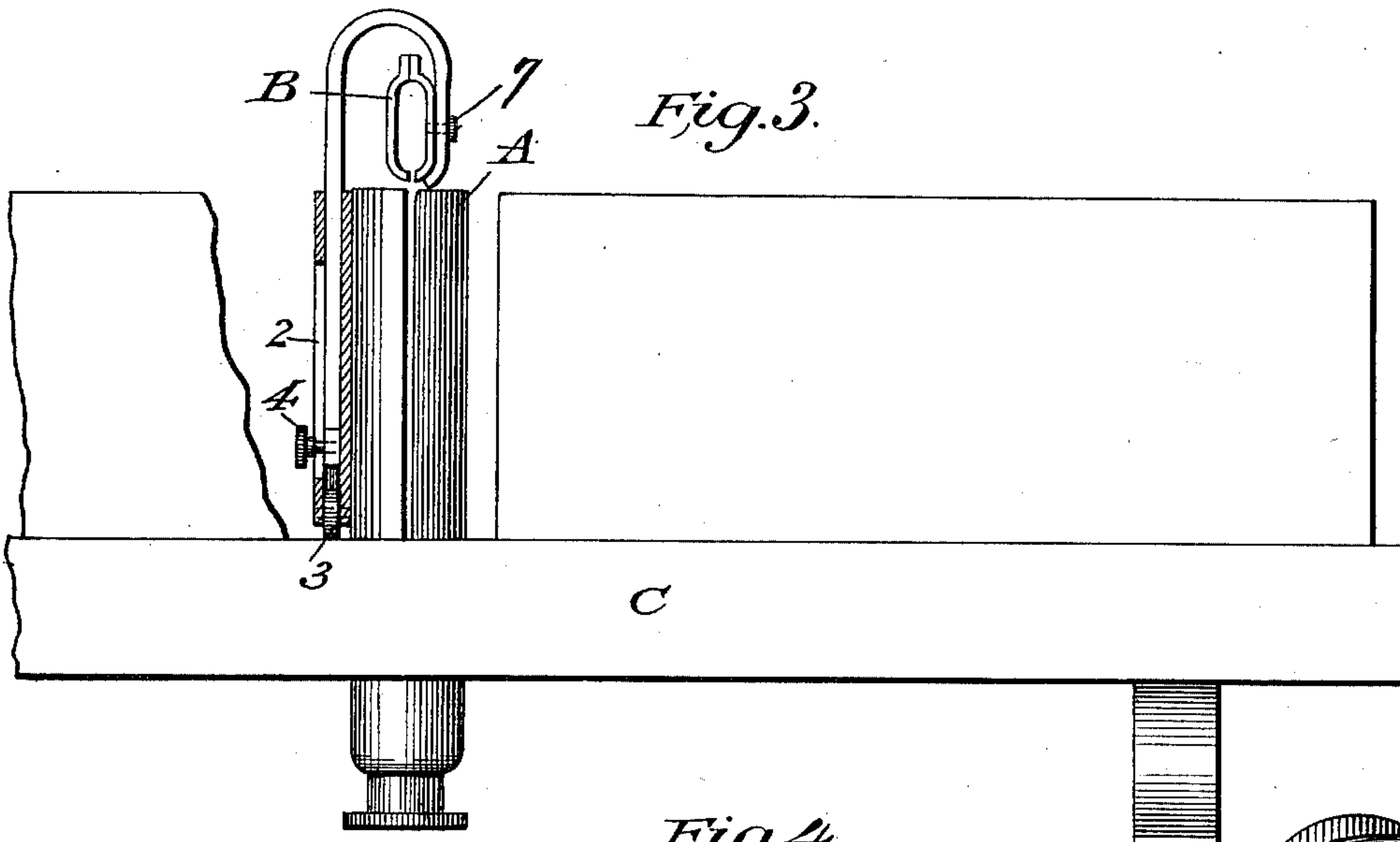


Fig. 3.

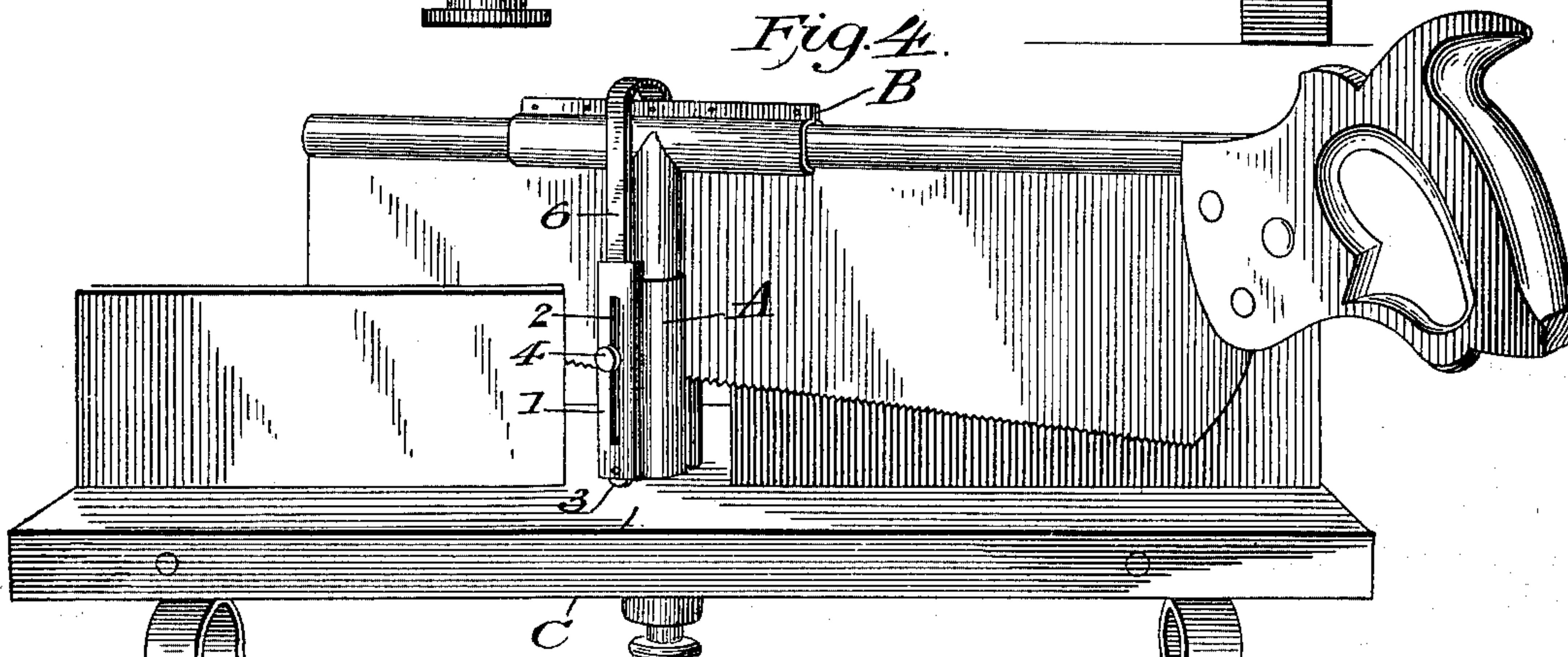


Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

MARCUS ARETAS KOSSUTH SHOTWELL, OF SILVER CITY, TERRITORY
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MITER-BOX.

SPECIFICATION forming part of Letters Patent No. 670,941, dated April 2, 1901.

Application filed August 18, 1900. Serial No. 27,342. (No model.)

To all whom it may concern:

Be it known that I, MARCUS ARETAS KOSSUTH SHOTWELL, a citizen of the United States, residing at Silver City, in the county of Grant and Territory of New Mexico, have invented a new and useful Improvement in Miter-Boxes, of which the following is a specification.

My invention relates to a new and novel device, the object of which being that of providing means by which the saw may be adjusted to and controlled at any desired height. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the device, illustrating the adaptation of the curved rod 6 to the auxiliary cylinder 1. Fig. 2 is a rear elevation of the device shown in Fig. 1; Fig. 3, a view of the device illustrating its adaptation to the saw-guide cylinder of a miter-box; Fig. 4, a view of the miter-box illustrating the device attached to the saw-guide cylinder, the saw being adjusted to cut to a desired depth.

Similar letters and numbers refer to similar parts of the several views.

Referring to the drawings, A illustrates the guide-cylinder, B the saw-guide cylinder, and C the bed-plate, (parts of the miter-box.)

1 illustrates an auxiliary cylinder having a vertical slot 2, being provided at its base with

a friction-roller 3, adapted to travel on plate C. 4 illustrates an adjustable set-screw passing through the said slot, engaging with a plate 5, said plate being vertically movable. 6 illustrates a curved rod vertically movable in the said cylinder, resting upon plate 5, being provided at its top with an engaging screw 7.

It is obvious that when rod 6 is attached to the saw-guide cylinder B the said cylinder and saw may be adjusted to any desired height by aid of the set-screw 4. Likewise by reason of the roller 3 the cylinder will travel upon plate C in a path around the guide-cylinder A as the saw is adjusted to required angles.

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

A combination comprising an auxiliary cylinder mounted to travel in a path around the guide-cylinder; a supporting-rod connected with the saw-guide cylinder, the said rod entering the auxiliary cylinder: and a device for adjusting said rod substantially as shown and set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MARCUS ARETAS KOSSUTH SHOTWELL.

Witnesses:

W. M. PEARCE,
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