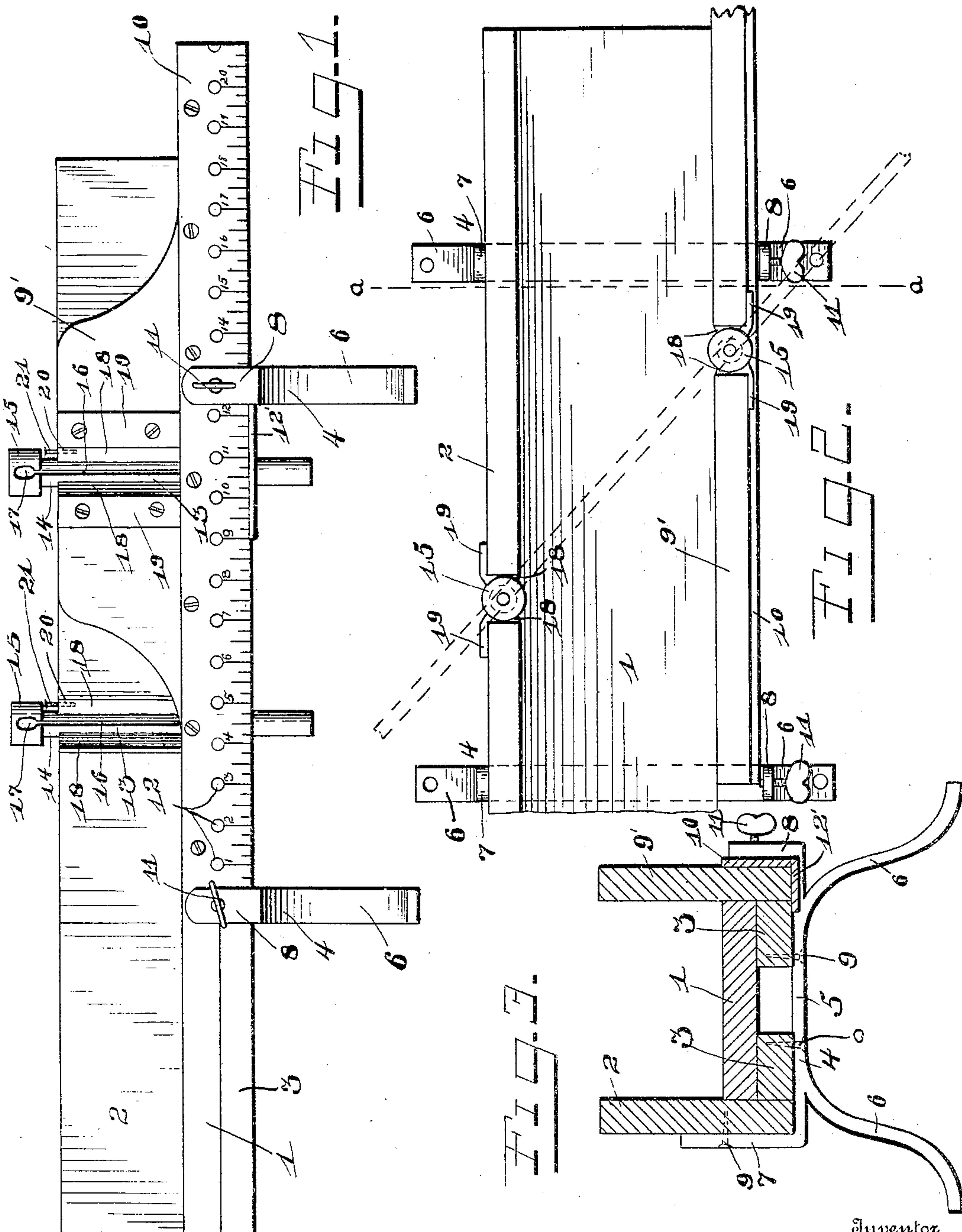


No. 778,701.

PATENTED DEC. 27, 1904.

M. NICHOLLS.  
MITER BOX.

APPLICATION FILED JULY 6, 1904.



Witnesses

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## MITER-BOX.

SPECIFICATION forming part of Letters Patent No. 778,701, dated December 27, 1904.

Application filed July 6, 1904. Serial No. 215,470.

*To all whom it may concern:*

Be it known that I, MOSES NICHOLLS, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented certain new and useful Improvements in Miter-Boxes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in miter-boxes; and it consists in the construction, combination, and arrangement of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a front elevation of my improved miter-box. Fig. 2 is a top plan view of the same. Fig. 3 is a transverse sectional view of the same, taken on the plane indicated by the line *aa* of Fig. 2.

To the bottom 1 of the miter-box is secured a fixed side 2, and the bottom is here shown as provided on its under side with a pair of longitudinal bars 3. Under the box, at suitable distances from the ends thereof, are supporting-standards 4, each of which comprises a cross-piece to bear under the box, supporting-legs 6, a vertical arm 7 to bear against the rear side of the fixed side wall 2 of the box, and a vertical arm 8, suitably spaced from the front side of the bottom. The bar 5 and the arm 7 of each standard are secured, respectively, to the under side of the box and to the fixed wall 2 thereof by means of screws 9 or other suitable devices.

Opposite the fixed side wall 2 of the box is a longitudinally-movable wall 9, which travels on the standard and bears between the front side of the box-bottom 1 and the inner sides of the arms 8. As here shown, the movable side of the miter-box is provided on its outer side with a scale-bar 10. The arms 8 are respectively provided with clamp-screws 11, having pointed ends adapted to engage appropriately-spaced countersunk stop-points 12, with which the scale-bar 10 is provided. On the under side of the movable side wall 9, at the center thereof, is a stop-plate 12'. The

latter coacts with the standards 4 to limit the longitudinal movement of the side wall 9.

Each wall 2 9 is provided at its center with a pivoted saw-guide 13, comprising a cylindrical shank 14 of suitable length and diameter and a head 15. The shank is provided with a slot 16 for the saw-blade, and the head is provided with a suitably-widened slot 17 for the stiffening-bar at the upper side of the blade of the miter-saw. Each of the saw-guides is pivotally mounted between a pair of bearing-plates 18, the latter being inserted in openings in the sides of the box and being here shown as provided with flanges 19 to bear against the outer sides of the sides 2 9 of the box and secured thereto by means of screws. One of the bearing-plates of each pair is provided at its upper end with a screw-threaded opening 20 for the reception of an adjusting screw or stop 21, which projects upwardly therefrom and is adapted to engage the under side of the head 15 of one of the pivoted saw-guides when the saw-guides are lowered sufficiently between the bearing-plates to bring the lower serrated edge of the saw immediately above the bottom of the box, and to thus limit the downward movement of the saw with the said saw-guides, so as to prevent the saw from cutting the bottom of the box. As the saw wears or becomes narrowed by resharpening the stop-screws 21 are lowered sufficiently to compensate for the wear of the saw. That pivoted saw-guide which is carried by the longitudinally-movable side wall 9 passes through an opening in the stop-plate 12'.

It will be understood that by appropriately adjusting the movable side wall 9 the saw carried by the saw-guides may be set at any desired angle and that when so set the said wall may be secured in place by means of the set-screws 11.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be

resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. A miter-box, having a longitudinally-movable side wall and provided with supporting-standards, each comprising a cross-bar to bear under the box, legs at the ends of the cross-bar, upstanding arms to bear respectively against the outer sides of the fixed and movable side walls of the box, the said arms which bear against the movable side of the box being provided with set-screws, substantially as described.

2. A miter-box having a longitudinally-movable side wall provided on its under side with a stop-plate, and supporting-standards for the box, having cross-bars extending under the box and coacting with the said stop-

plate to limit the longitudinal movement of the said movable side wall, said standards also having upstanding arms bearing against, guiding and retaining said movable side wall in place, substantially as described.

3. A miter-box comprising a bottom, a fixed side wall, and a longitudinally-movable side wall, said box having supporting-standards provided with cross-bars extending under the same, and on which the movable side wall bears, said standards having upstanding arms, bearing against, guiding and retaining said movable side wall in place, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

MOSES NICHOLLS.

Witnesses:

J. R. JAQUES,

W. H. C. JAQUES.