

No. 671,304.

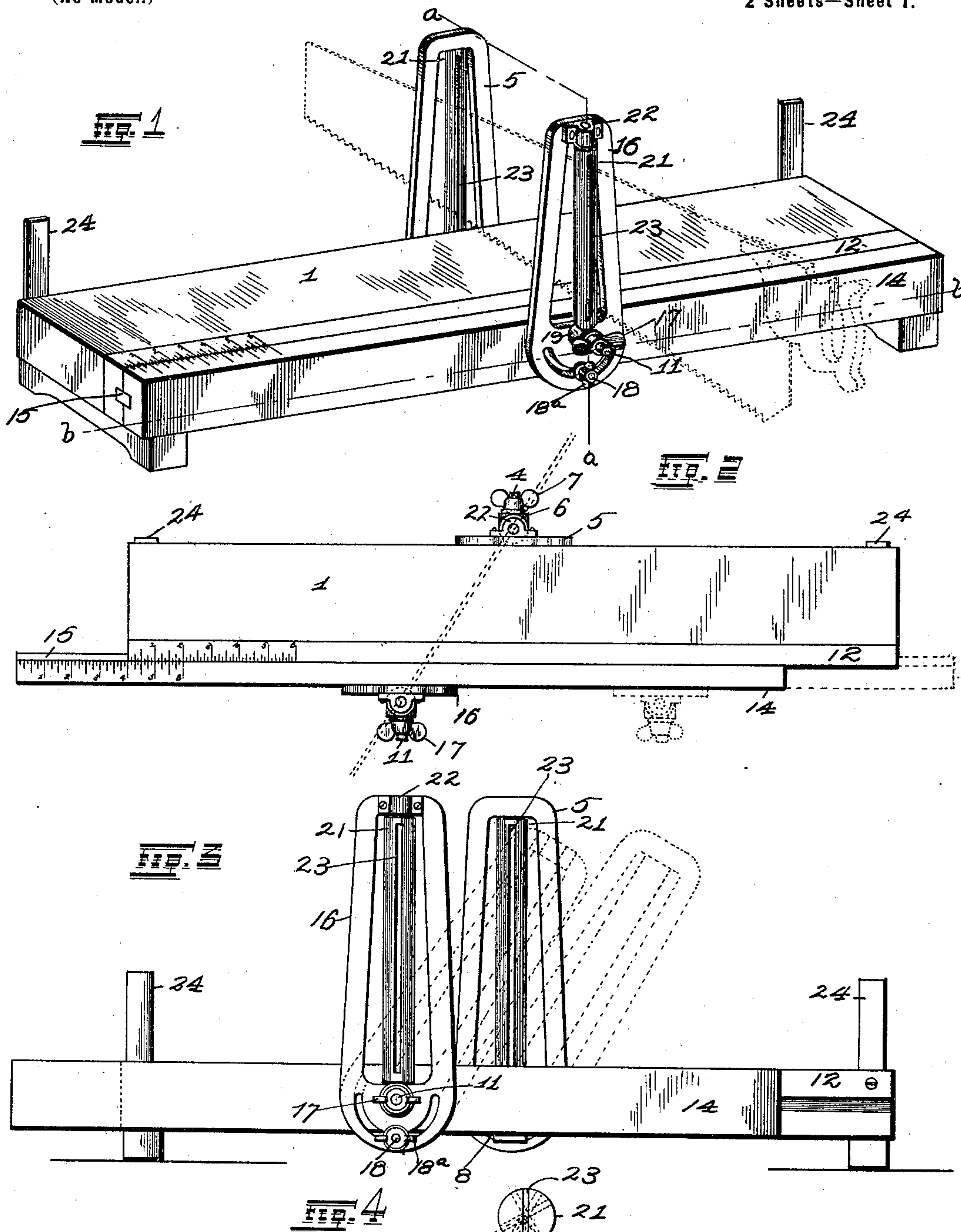
Patented Apr. 2, 1901.

B. B. YOUNG.
MITER BOX.

(Application filed May 28, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses
Alfred A. Eicher
J. D. Rippey

Inventor.

Barton B. Young.
By Higdon & Longan, Attys.

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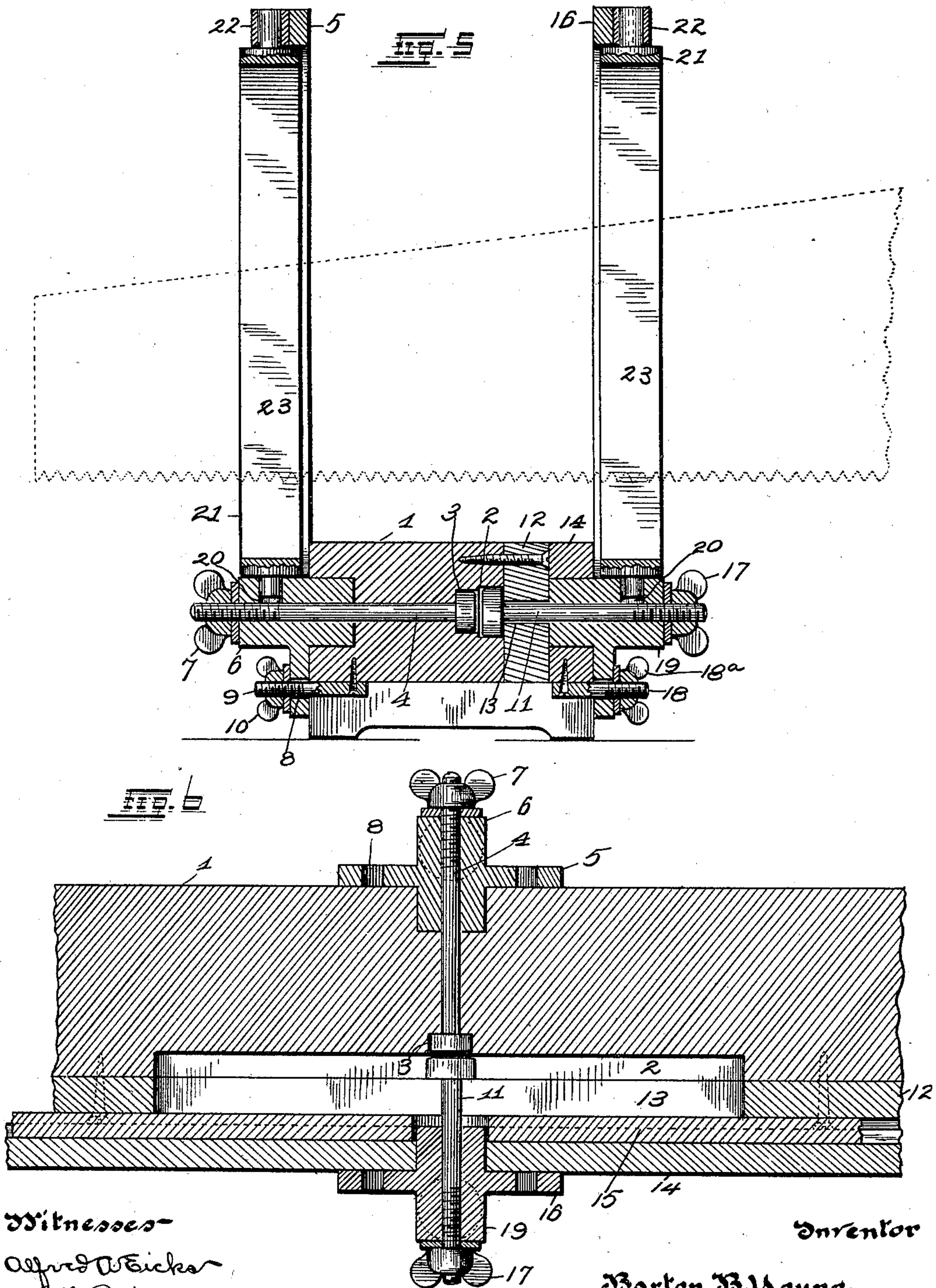
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UNITED STATES PATENT OFFICE.

BARTON B. YOUNG, OF ST. LOUIS, MISSOURI.

MITER-BOX.

SPECIFICATION forming part of Letters Patent No. 671,304, dated April 2, 1901.

Application filed May 28, 1900. Serial No. 18,301. (No model.)

To all whom it may concern:

Be it known that I, BARTON B. YOUNG, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Miter-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to miter-boxes; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

Figure 1 is a view in perspective, showing my complete invention. Fig. 2 is a plan view. Fig. 3 is a side elevation. Fig. 4 is a diagrammatic view showing different adjustments of the guide-rollers. Fig. 5 is an enlarged sectional view taken on the line *a a* of Fig. 1. Fig. 6 is a detail sectional view taken on the line *b b* of Fig. 1.

In carrying out the invention I provide a base 1, having a groove 2 in one side thereof, the purpose of which will hereinafter appear. Within the groove 2 is a depression 3, within which fits the rectangular head of a bolt 4, the said bolt projecting laterally through the base 1. Carried upon the bolt 4 is a metallic frame 5, integral with which is a projecting hub 6, a portion of which fits within an annular depression in the base 1, within which it is allowed to revolve when the frame 5 is adjusted at different angles. Said frame is retained upon the bolt 4 by means of a finger-nut 7. Formed in the lower portion of the frame 5 is a circular slot 8, through which projects the bolt 9, the said bolt being rigidly secured to the under side of the base 1. A finger-nut 10 is mounted upon the outer end of the bolt 9 and serves to hold the frame 5 in any adjustment in which it may be placed. A bolt 11, similar in all respects to the bolt 4, is arranged oppositely from the said bolt, the head thereof operating in the groove 2, in which adjustment it is held by the retaining-strip 12, the slot 13 of equal length with the groove 2 allowing the bolt to be moved endwise. A sliding strip 14 is arranged to slide along the outer edge of the strip 12 and is held in alinement therewith by means of

the guide-strip 15, which operates within a suitable groove in the outer side of the strip 12. The bolt 11, as shown, projects outwardly and supports the frame 16, similar in all respects to the frame 5 above described, and is held thereon by means of a finger-nut 17. The bolt 18 is secured to the under side of the strip 14 and serves to hold the frame 16 in any adjustment in which it may be placed.

Formed in the hubs 6 and 19 of the frames 5 and 16 are bearings 20, supported in which are the guide-rollers 21, their upper ends being held within bearings 22, secured to the upper ends of the frames 5 and 16. Each of the rollers is provided with a longitudinal slot 23, which are for the purpose of receiving a saw, as shown by dotted lines in Fig. 1.

24 denotes the standards for holding the object which is to be sawed.

When it is desired to adjust the guide-rollers at different angles, all that is necessary is to release the nuts 10 and 18^a, which allows the frames 5 and 16 to be turned upon the pivots 4 and 11. By this means the guide-rollers can be placed at any angle desired, and they will be held in any adjustment by tightening the nuts 10 and 18^a. To operate the guide-rollers endwise from each other, it is only necessary to release the nut 17, which allows the bolt 11 to slide freely in the groove 2. It can then be moved to the desired position, in which position it will be rigidly held after the nut 17 has again been tightened.

I claim—

1. A miter-box, comprising a base portion 1 having a groove on one side, a bolt having its head retained within said groove, means whereby the said bolt may be moved toward either end of the said base portion, a frame supported on said bolt, means whereby said frame may be adjusted at different angles, a guide carried by said frame, and a guide supported within a suitable frame carried close to the base portion on the side opposite from the first-mentioned frame, substantially as specified.

2. A miter-box, comprising a base portion 1, having a groove in one side, a slide operating on one side of the base portion 1 adja-

cent to the said slot, a bolt carried by said
slide, the head of the said bolt being adapted
to move within the said slot, a frame sup-
ported by said bolt, means for locking said
5 frame in different positions, a guide carried
by said frame, a second frame adjustably
supported by the said base portion on the
side opposite from the first-mentioned frame,

and a guide carried by said frame, substan-
tially as specified. 10

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

BARTON B. YOUNG.

Witnesses:

ALFRED A. EICKS,

J. D. RIPPEY.