

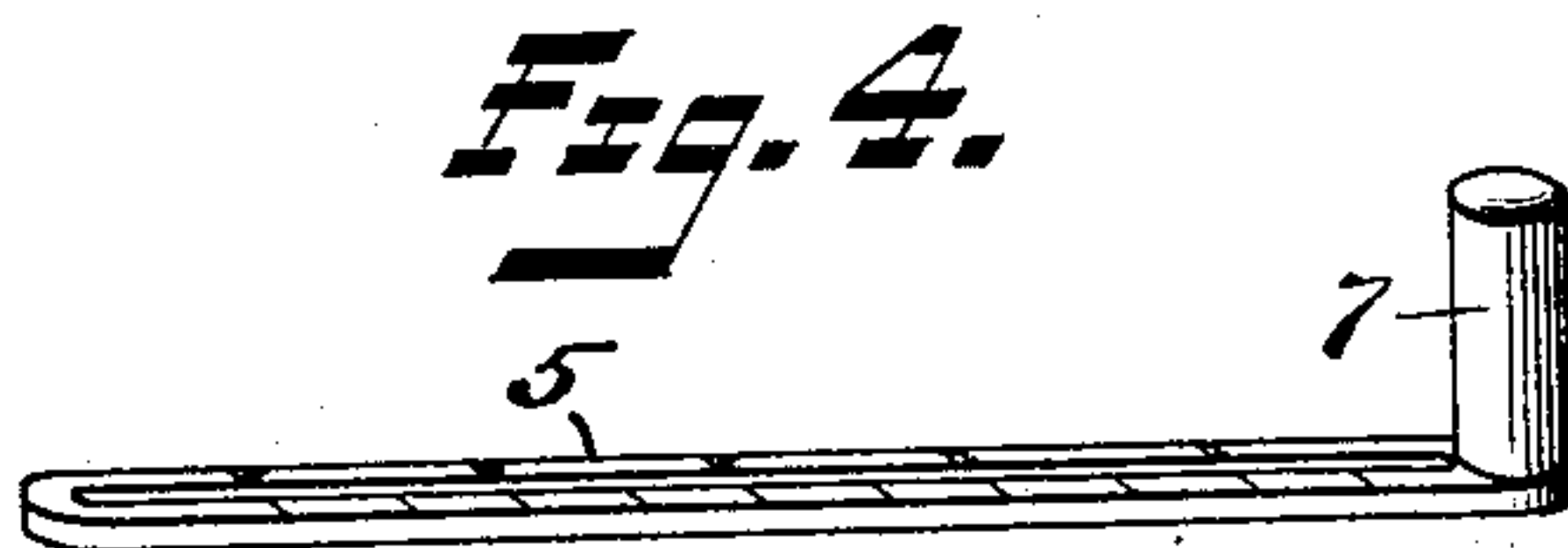
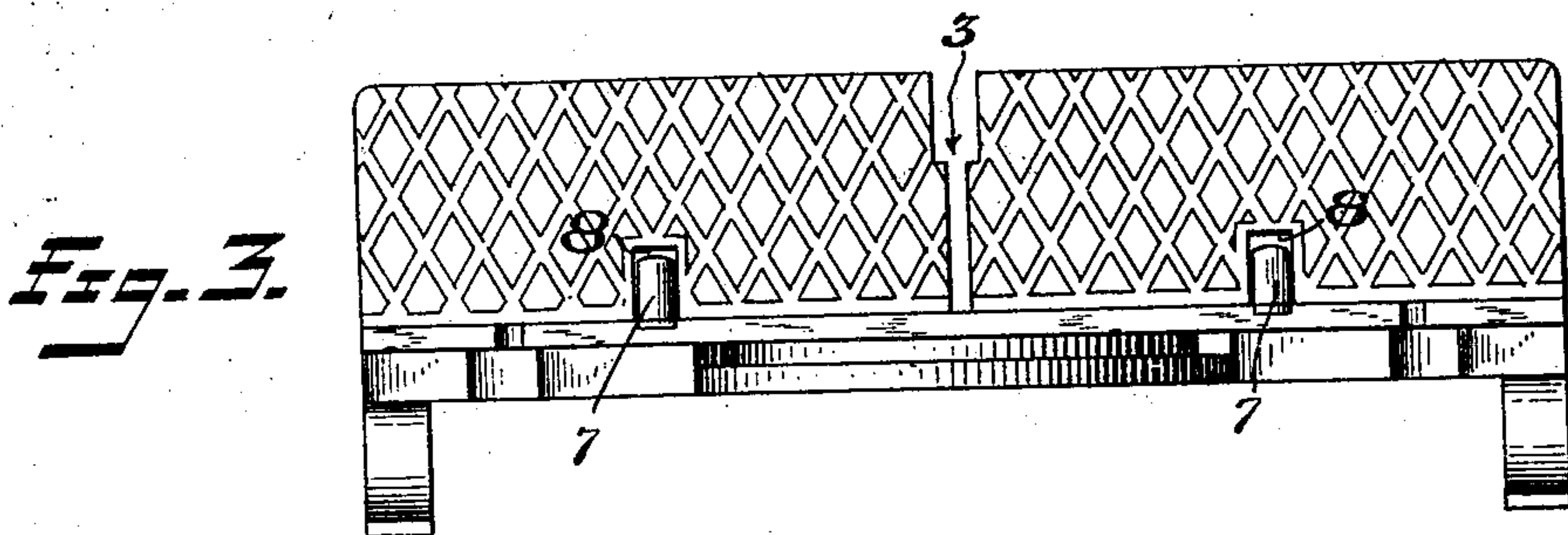
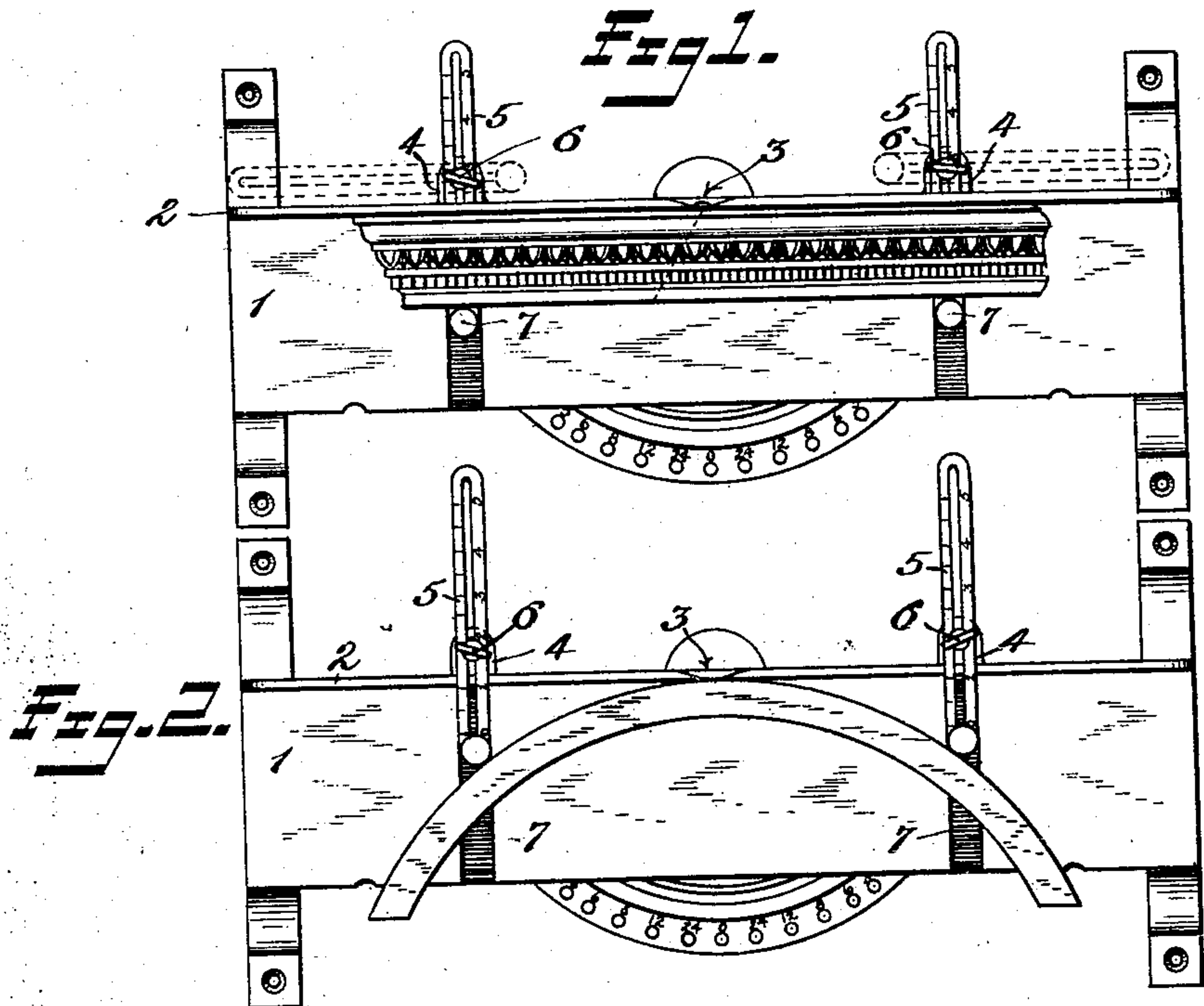
No. 754,624.

PATENTED MAR. 15, 1904.

J. A. TRAUT.
MITER BOX.

APPLICATION FILED APR. 24, 1903.

NO MODEL.



WITNESSES:

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JUSTUS A. TRAUT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE STANLEY RULE & LEVEL COMPANY, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

MITER-BOX.

SPECIFICATION forming part of Letters Patent No. 754,624, dated March 15, 1904.

Application filed April 24, 1903. Serial No. 154,052. (No model.)

To all whom it may concern:

Be it known that I, JUSTUS A. TRAUT, a citizen of the United States, residing at New Britain, Hartford county, Connecticut, have invented certain new and useful Improvements in Miter-Boxes, of which the following is a full, clear, and exact description.

My invention relates to miter-boxes, and comprises an attachment therefor which I shall term a "fore guide" and by which the work may be held properly during the operation of sawing the same. The attachment is simple, inexpensive, and effective and is easily operated. Furthermore, it can be carried by the box at all times, and when not in use it may be moved out of the way entirely without being detached therefrom.

In the accompanying drawings, Figure 1 is a plan view showing my fore guide or attachment as it appears when holding a piece of molding termed "crown-molding." Fig. 2 is a similar view showing said attachment holding a curved piece of material to be sawed. Fig. 3 is a front elevation. Fig. 4 is a perspective detail view.

In the accompanying drawings I have not attempted to show all the parts of the miter-box, but merely those portions necessary to enable one skilled in the art to fully understand its construction and operation.

1 is the table of a miter-box upon which the work is supported.

2 is the back.

3 indicates the slot in the back through which the saw passes.

4 4 are supporting lugs or shoulders to the rear of the back 2 and on each side of the saw slot 3. Two fore guides or holding attachments are shown, and each is adjustably mounted upon a lug 4. Each fore guide comprises a slide 5, preferably provided with a longitudinal slot, through which slot passes the shank of a set-screw 6.

7 is a stud or post carried by each slide 5 at or near its forward end. These posts 7 are the fore guides proper, and they may be made to appear or disappear through suitable win-

dows or passages 8 8 in the back 2 in front of the supporting-lugs 4 4. The screw 6 takes into the lug 4. The table 1 is grooved to a width and depth substantially equal to the width and thickness of the slides 5. The purpose of these grooves is to receive the slides 5 flush with the surface of the table, so that they will not displace any work that may be thereon.

The slides are preferably graduated along their edges to be read from any convenient point, so that the operator may readily adjust the guide-studs 7 to exactly the desired position. This is particularly advantageous in working upon molding of peculiar shape—for example, crown-molding. If it is known that the crown-molding to be worked upon is two inches in width, the scale may be previously set, as shown in Fig. 1, so that when the molding is put in place it will stand in the proper position to receive the saw-cut. The guide-studs 7 7 prevent the molding from becoming unseated. In operating upon a curved piece of material, as shown in Fig. 2, the fore guides are useful in steadying said piece and in setting it, so that the proper angle may be secured. A piece of material of curved form bears at three points in the rear. Hence an added advantage is due to the presence of the fore guide, since it supplements this bearing and firmly holds the work in place. When there is no occasion to use this attachment, the set-screws 6 may be loosened and the slides moved back until the guide-studs 7 7 disappear through the windows 8 8, whereupon the attachments may be swung around into the position indicated in dotted lines, Fig. 1, where they will be held entirely out of the way.

What I claim is—

1. In a miter-box, a frame, a table supported thereby, a back adjacent the rear edge of said table, an adjustable fore guide comprising a stud, an arm or slide carrying said stud, a support for said arm or guide to the rear of said back, said arm or slide being freely pivoted to said support, an opening or passage through said back and in front of said sup-

port through which said arm or slide may project, and means for securing said slide on said support at different positions.

2. In a miter-box, a frame, a table supported thereby, a back adjacent the rear edge of said table, an adjustable fore guide comprising a stud, an arm or slide carrying said stud, a support for said arm or guide to the rear of said back, said arm or slide being freely pivoted to said support, an opening or passage through said back and in front of said support through which said arm or slide may project, and means for securing said slide on said support at different positions, a groove or recess in said table to receive said slide so that it will not stand above the supporting-surface of said table.

3. In a miter-box, a frame, a table supported thereby, a back adjacent the rear edge of said table, an adjustable fore guide comprising a stud, an arm or slide carrying said stud, a support for said arm or guide to the rear of said back, said arm or slide being freely pivoted to said support, an opening or passage through said back and in front of said support through which said arm or slide may project, and means for securing said slide on said support at different positions, said arm or slide being graduated.

4. In a miter-box, a frame, a table, a back,

an adjustable fore guide comprising a slotted slide, a support for said slide to the rear of said back, said slide being freely pivoted to said support, means for adjustably setting said slide on said support, a fore-guide stud carried by said slide and an opening or passage in the back in front of said support, said opening or passage being large enough to admit the introduction or withdrawal of said stud and slide.

5. In a miter-box, a frame, a table, a back, an adjustable fore guide comprising a slotted slide, a support for said slide to the rear of said back, said slide being freely pivoted to said support, means for adjustably setting said slide on said support, a fore-guide stud carried by said slide and an opening or passage in the back in front of said support, said opening or passage being large enough to admit the introduction or withdrawal of said stud and slide, and a groove or recess in said table to receive said slide so that it will not stand above the supporting-surface of said table.

Signed at New Britain, Connecticut, this 3d day of April, 1903.

JUSTUS A. TRAUT.

Witnesses:

ROBERT N. PECK,
E. G. HOFFMAN.