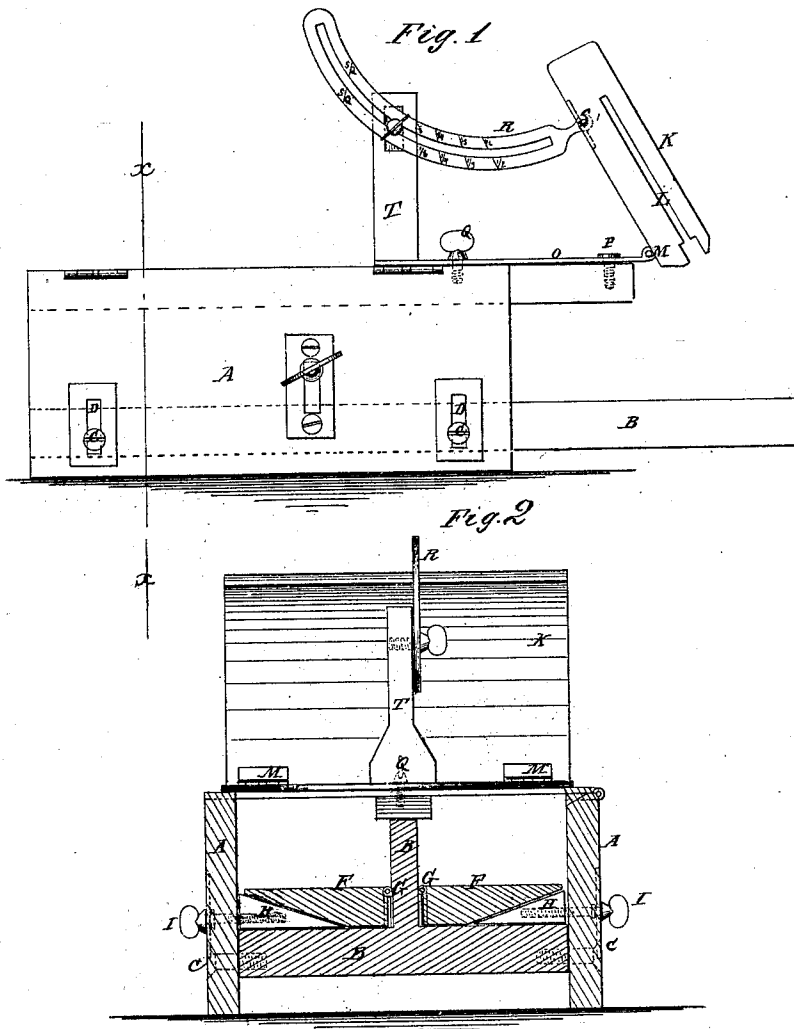


J. Tenge,
Miter Box.

No. 109,190.

Patented Nov. 15, 1870.



Witnesses:
A. W. Hingvist
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United States Patent Office.

JUSTIN DEVOGE, OF MEADVILLE, PENNSYLVANIA.

Letters Patent No. 109,190, dated November 15, 1870.

IMPROVEMENT IN MITER-BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JUSTIN DEVOGE, of Meadville, in the county of Crawford and State of Pennsylvania, have invented a new and improved Miter-Box; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in miter-boxes; and consists in a combination, with a box for holding the stuff, of a saw-clamp or guide, arranged for holding the saw above the article to be sawed, near the end, and adjustable either to a vertical plane or to any oblique plane across the box; also adjustable to a perpendicular or any other angle with the box; the said box having a vertically adjustable bottom, and a secondary bottom made in two parts, which may be adjusted to suit the requirements of strips or pieces which have oblique sides of a dividing wall, all as hereinafter described.

Figure 1 is a side elevation of my improved miter-box, and

Figure 2 is a cross-section of the same.

Similar letters of reference indicate corresponding parts.

A represents the two sides of the box, and B the bottom.

The latter is made adjustable vertically with the sides by means of the screws C and the slots D in the sides A.

It projects beyond the ends of the sides A and has a central longitudinal dividing rib, E, dividing the space into two parts, in each of which is a false bottom, F, hinged or jointed at G, and beveled on the under sides next the outer edges, as shown, for the application of the wedges H for raising the said bottoms from the horizontal plane.

Said wedges are provided with adjusting screws, I.

K is a saw-guide, consisting of a plate of any kind with a slot, L, for the reception of the saw, in such a way that it will be held and guided for sawing the ar-

ticle under it, the edge of the saw projecting from the said guide.

This guide is hinged at M to a plate, O, which represents part of a circle, and is pivoted at P to oscillate horizontally.

Q is a clamping screw passing through a curved slot in the said plate, and screwing into the box below to clamp the plate for holding the saw-guide at any required angle relatively to the box.

This plate O may have a scale on the upper face to indicate the position of the guide relatively to the box longitudinally.

R is a segmental brace, jointed to the guide K at S, and arranged with a post, T, mounted on the plate O, for swinging with it, so as to be clamped against the said post to hold it and the guide at any angle.

The said brace is provided with a scale to indicate the angle of the guide.

The supports for the guide and adjusting apparatus are hinged to one of the sides of the box to admit of raising them to put in the work.

It will be seen that by means of all these adjustable devices the article to be sawed may be adjusted vertically to the saw, also, on its longitudinal axis, and that the saws may be adjusted to any required angle in a horizontal plane, also to any required angle in vertical plane.

The sides of the box may be extended beyond the saw-guide, if preferred, suitable notches being made in them to make room for the saw.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. The ribbed bottom B, and hinged false bottoms F F, applied together to a miter-box, as and for the purpose described.

2. The beveled and hinged bottoms F, adjustable by means of wedges H, as and for the purpose described.

Witnesses:

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JUSTIN DEVOGE.