

(No Model.)

R. B. CURRIER.  
MITER BOX.

No. 446,431.

Patented Feb. 17, 1891.

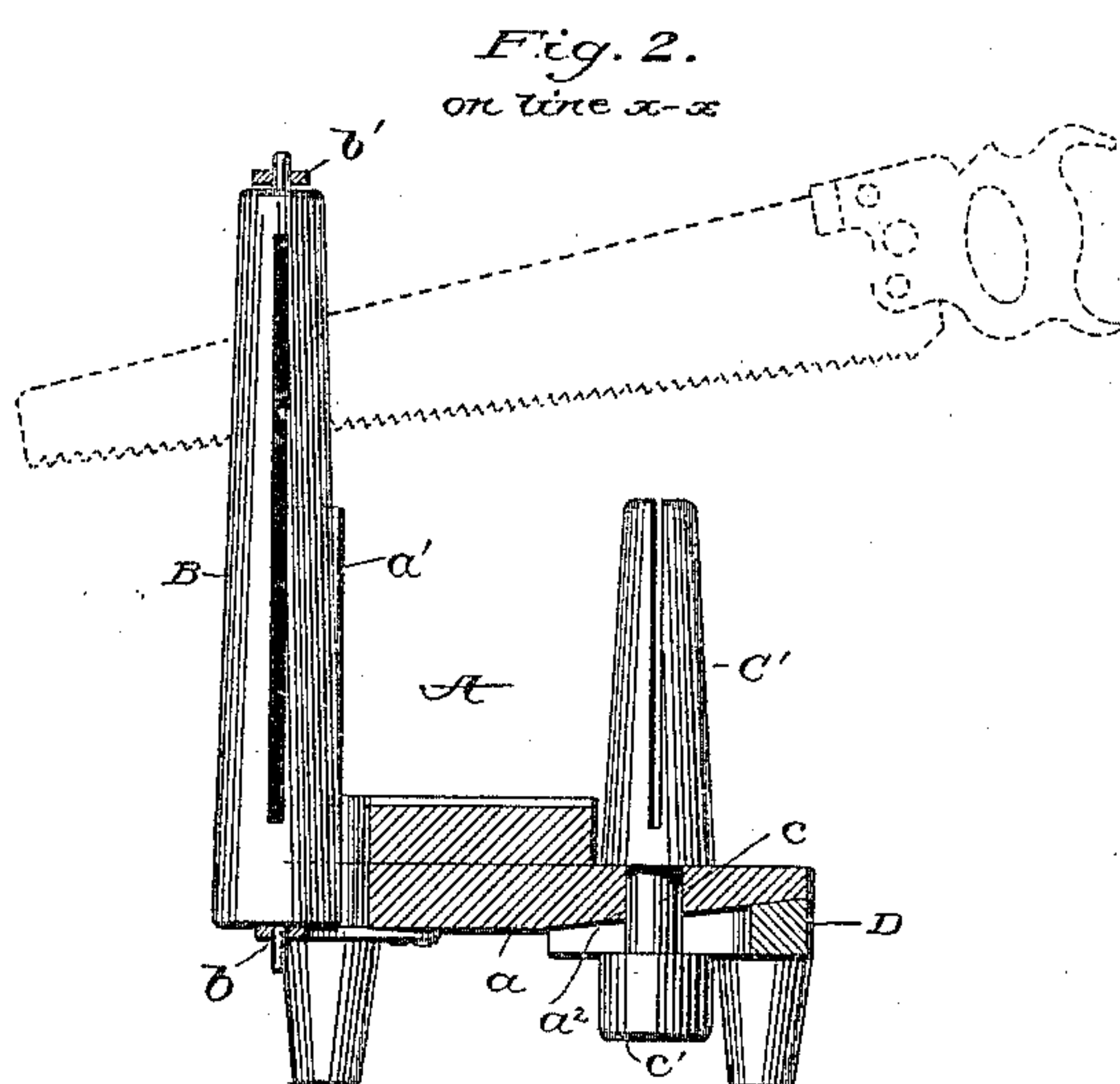
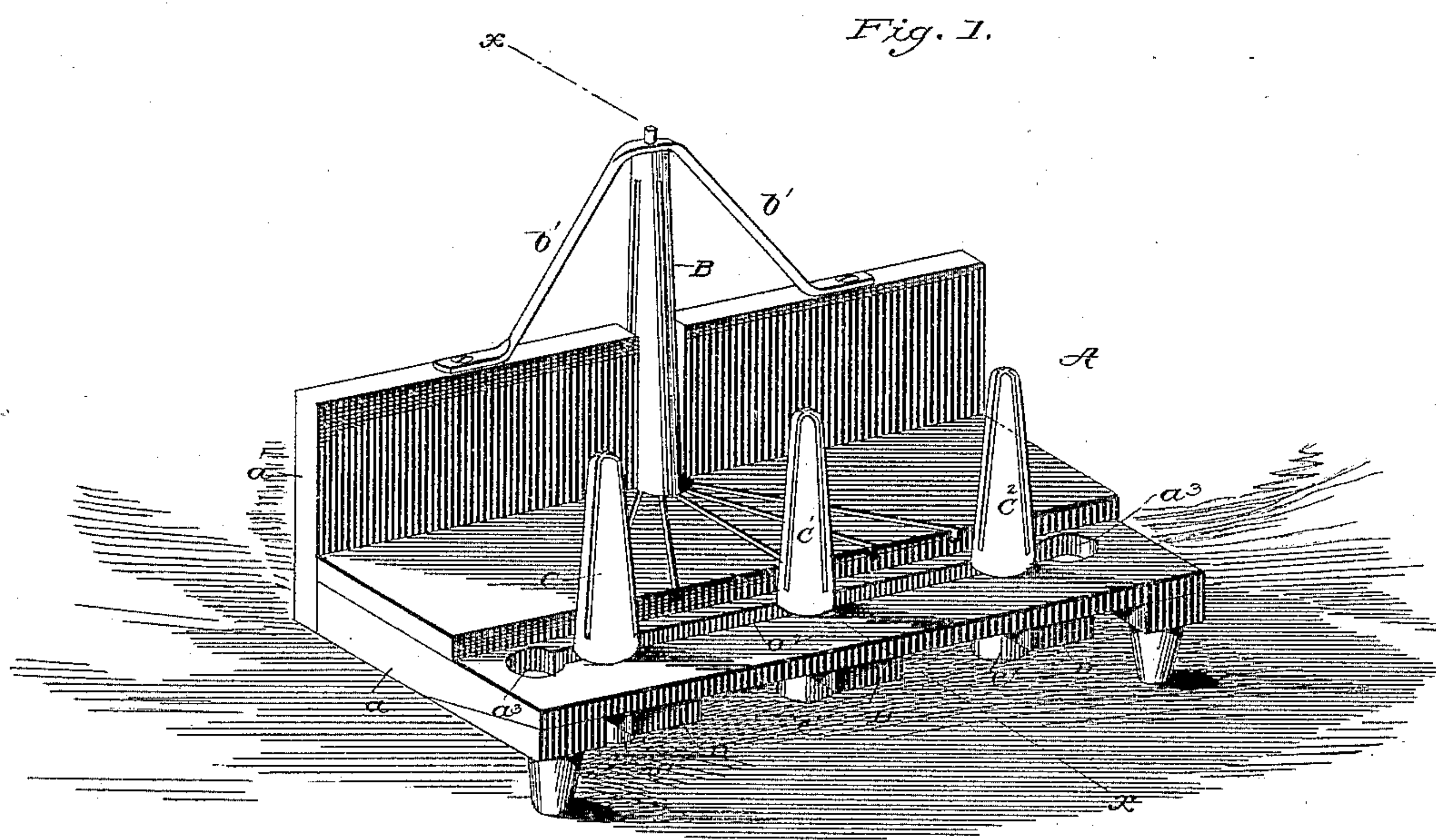
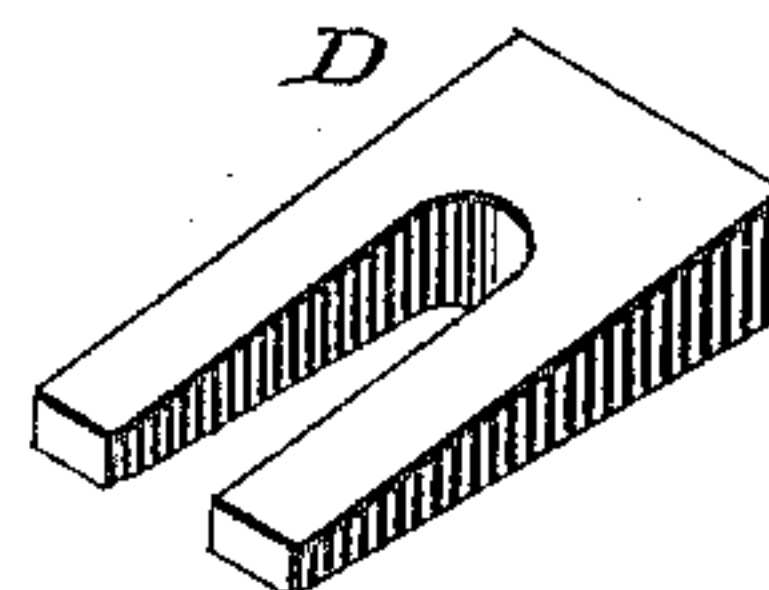


Fig. 3.



Witnesses:

H. H. Northman  
H. R. Kennedy

Inventor:

R. B. Currier  
By his atty  
Phil. T. Dodge



# UNITED STATES PATENT OFFICE.

RICHARD B. CURRIER, OF ALMONT, MICHIGAN, ASSIGNOR OF ONE-HALF TO  
CURTIS S. CURRIER, OF SAME PLACE.

## MITER-BOX.

SPECIFICATION forming part of Letters Patent No. 446,431, dated February 17, 1891.

Application filed June 7, 1890. Serial No. 354,594. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD B. CURRIER, of Almont, in the county of Lapeer and State of Michigan, have invented certain Improvements in Miter-Boxes, of which the following is a specification.

This invention relates to a miter-box in which the box proper is provided with vertically-slotted posts to guide the saw.

The objects of the invention are to simplify the construction and to permit the saw to be quickly and readily changed from one position to another, as required.

In the accompanying drawings, Figure 1 is a perspective view of my improved miter-box. Fig. 2 is a vertical cross-section of the same on the line  $x x$ . Fig. 3 is a perspective view of one of the fastening-wedges.

Referring to the drawings, A represents the box proper, which may be of any appropriate form, but which, as shown in the drawings, consists of a horizontal base  $a$ , having along one edge a vertical wall  $a'$ .

B represents the rear guide-post arranged vertically in an opening in the rear wall of the box and sustained by vertical pivots at its upper and lower ends. The lower pivot is preferably sustained, as shown, by a plate  $b$ , and the upper pivot is sustained by arms or braces  $b'$ , secured to the box. The post B is slotted vertically, as shown, to permit the passage of the saw therethrough, and is extended upward a considerable distance above the box and above the front guides, herein-after referred to, in order that the saw may be lifted clear of the front guides without removal from the rear post.

C, C', and C<sup>2</sup> represent front guiding-posts which are slotted vertically to permit the passage of the saw therethrough. Each of these posts is formed at the lower end with a neck  $c$ , and a head or enlargement  $c'$  at its lower end. The base  $a$  is provided with a longitudinal slot  $a^2$ , enlarged at one end, as seen at  $a^3$ . The posts have their heads inserted through this enlarged end and are then carried laterally to their proper positions in the slot, where they are fixed in position, each by means of a slotted wedge D, applied astride

of the neck between the head and the under surface of the base  $a$ . These wedges constitute a very simple and efficient means of securing the posts rigidly in position. The front posts have their slots continued through their upper ends, so that the saw may be lowered therein and lifted therefrom; but the rear post has its slots terminate below the lower end, in order to prevent the saw from being lifted accidentally out of place therein.

By using the short posts at the front and the tall post at the rear the operator is enabled to lift the saw quickly and without special care to permit the introduction or removal of the piece to be operated upon, while at the same time the saw is retained and guided at the rear end, so that it may be dropped quickly into place in the appropriate post at the front. The operator has only to guide the saw into a single post instead of being required, as usual, to insert it after each removal into two posts. As the saw is thus constantly guided at one end, it is found that the box may be used with a greater convenience and rapidity than those of ordinary construction.

The front posts, which are laterally adjustable to change the horizontal angle of the saw, are horizontally adjustable. If desired, the center post may be omitted.

Having thus described my invention, what I claim is—

1. In a miter-box, the combination of the box proper, the fixed front posts slotted from the top downward that the saw may be lowered therein, and the rear post of greater height sustained by vertical axes at its top and bottom and provided with a vertical slot terminating below its upper end, whereby the saw-blade may be retained and guided when lifted from the front posts.

2. In a miter-box, the box proper provided with a longitudinal vertical slot having an enlargement  $a^3$ , in combination with the post having neck  $c$  and head  $c'$ , and the slotted wedge applied astride of the neck between the head and the bottom of the box.

3. In a miter-box, the box having the rear wall with a vertical opening therein, in com-

ination with the vertically-slotted post  
seated in said opening, the lower journal of  
the post seated in a bottom bearing, the upper  
journal of the post, and the arm or brace *b'*,  
5 attached to the box and passing over the up-  
per end of the post to sustain the same.

In testimony whereof I hereunto set my

hand, this 3d day of May, 1890, in the presence  
of two attesting witnesses.

RICHARD B. CURRIER.

Witnesses:

CHAS. R. FERGUSON,

C. S. CURRIER.