

JAMES W. BOWER & A. D. MOHLER.

Improvement in Miter-Boxes.

No. 126,669.

Patented May 14, 1872.

Fig. 1.

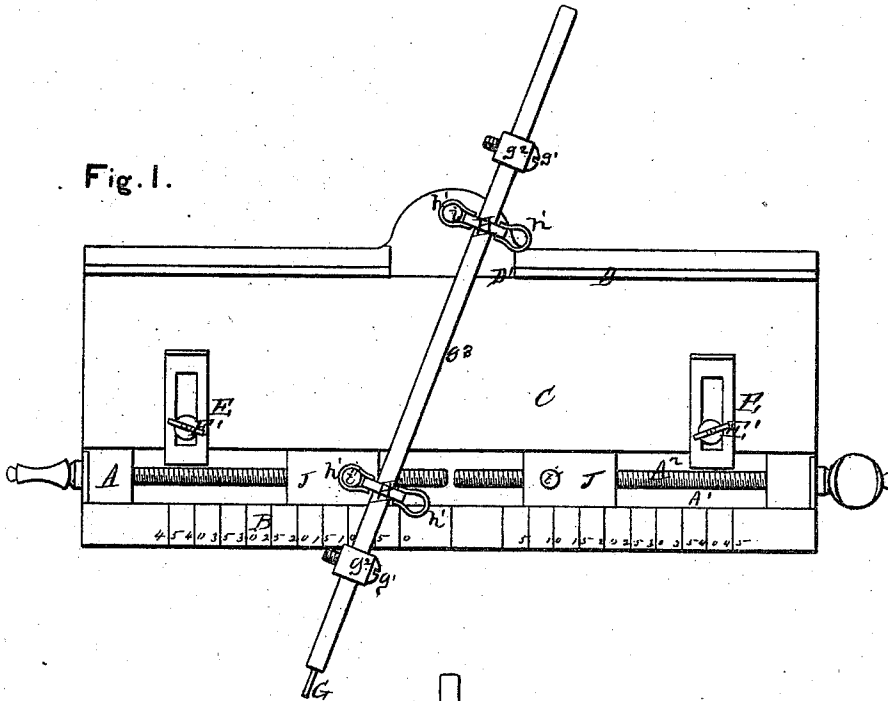
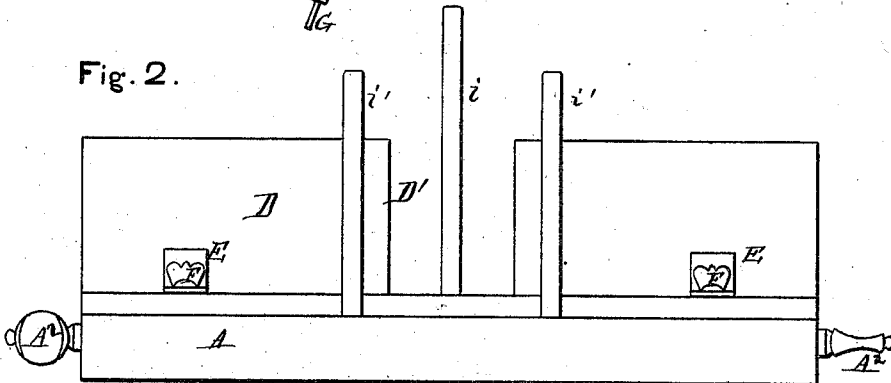


Fig. 2.



Witnesses.

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Fig. 3.

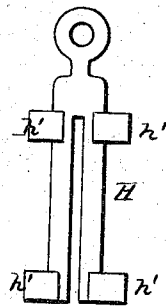


Fig. 4.

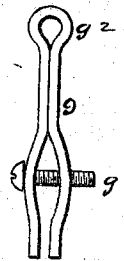
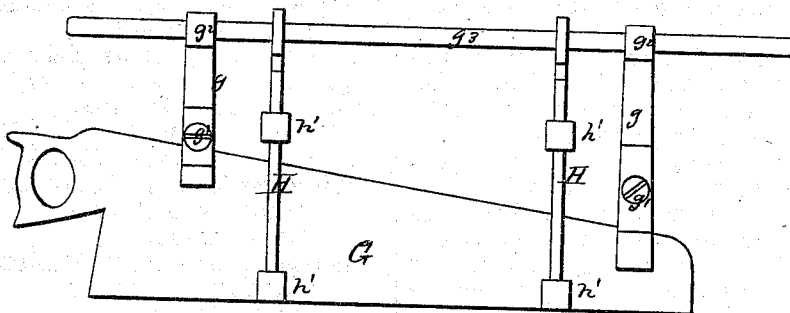


Fig. 5.



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UNITED STATES PATENT OFFICE.

JAMES W. BOWER, OF GREENCASTLE, AND ALONZO D. MOHLER, OF HUNTINGTON, INDIANA.

IMPROVEMENT IN MITER-BOXES.

Specification forming part of Letters Patent No. 126,669, dated May 14, 1872.

To all whom it may concern:

Be it known that we, JAMES W. BOWER, of Greencastle, in the county of Putnam and State of Indiana, and ALONZO D. MOHLER, of Huntington, in the county of Huntington and State of Indiana, have invented a new and valuable Improvement in Miter-Boxes; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of our invention. Fig. 2 is a side elevation of the same, without saw, clamps, or saw-guides. Fig. 3 is a front view of guide. Fig. 4 is a front view of clamp. Fig. 5 is a side view of saw with guides, clamps, and rod.

This invention has relation to miter-boxes; and the novelty consists in the construction and arrangement of devices for holding the saw in position, adjusting it to the proper angle, and securing the board while it is being cut.

In the accompanying drawing, which illustrates this invention, A represents a rectangular frame having a graduated scale of degrees of a circle at B. C represents a bed, upon which is placed the board to be mitered. The board is held secure against a wall, D, by means of adjustable flanged slides E, through which pass thumb-screws E' into the bed C. G designates the saw, clamped and held at both ends by means of clamps g, which are opened and closed by screws g', and are formed

with an eye, each marked g², so as to slide to and fro along a horizontal rod, g³. The latter is furnished with slotted guides H, through which the saw passes, and which are furnished with loops h' projecting from each edge. The loops on one side of the forward guide fit over a vertical post, i, inserted in the frame A, and the loops on one side of the rear guide fit over a post, i', attached to a flanged block, J, which travels through a grooved channel, A¹, and is moved by a screw, A². There are two each of the posts i', blocks J, and screws A², so that the guide may be changed from one post to the other, according to the direction of the bevel or miter angle. The wall D has an opening, D', to admit the passing of the saw.

Any ordinary crosscut-saw may be used with my improved miter-box, by clamping it near the ends in the manner described.

I claim as my invention—

In a miter-machine, the combination of the frame A, graduated at B, having center post i, with the sliding blocks J, having posts i', operated by screws A², substantially as and for the purpose set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

JAMES W. BOWER.

ALONZO D. MOHLER.

Witnesses for JAS. W. BOWER:

WILLIAM D. ALLEN,

OTHO ALLEN.

Witnesses for ALONZO D. MOHLER:

MICHAEL HOURMAN,

AMOS MOHLER.