

J. CHURCH.

Machines for Entering Blind-Slats.

No. 139,043.

Patented May 20, 1873.

Fig. 1.

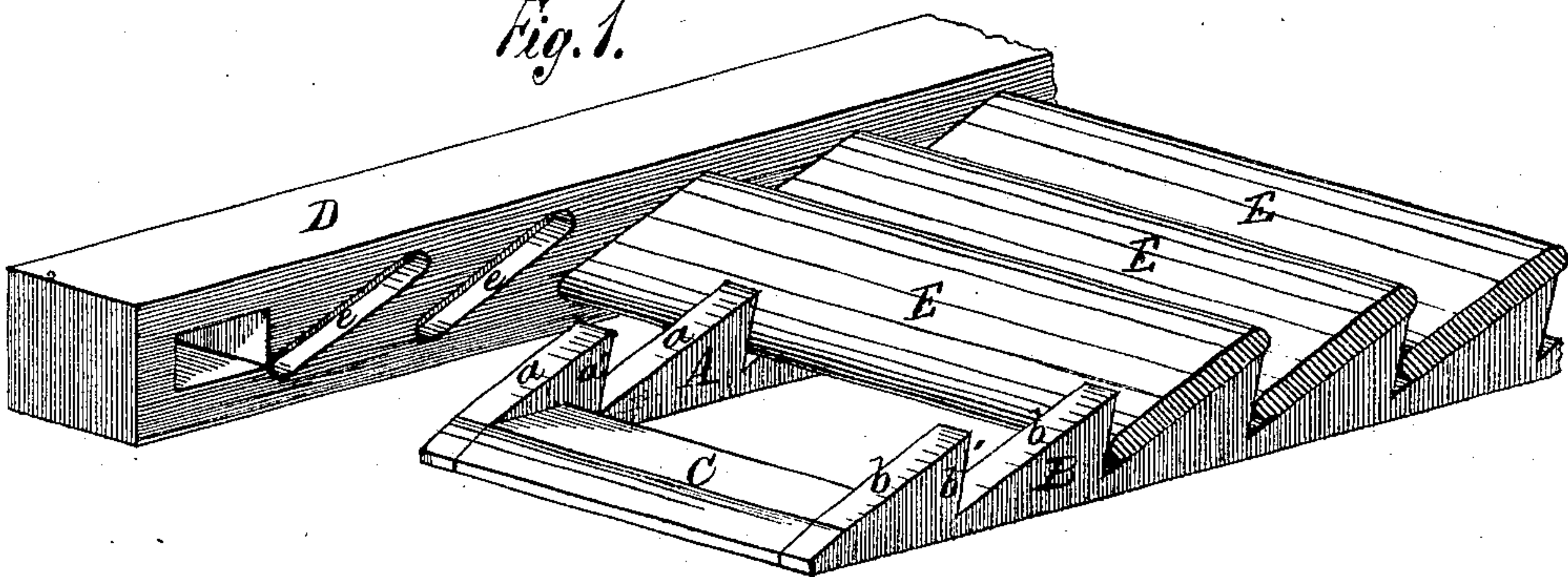
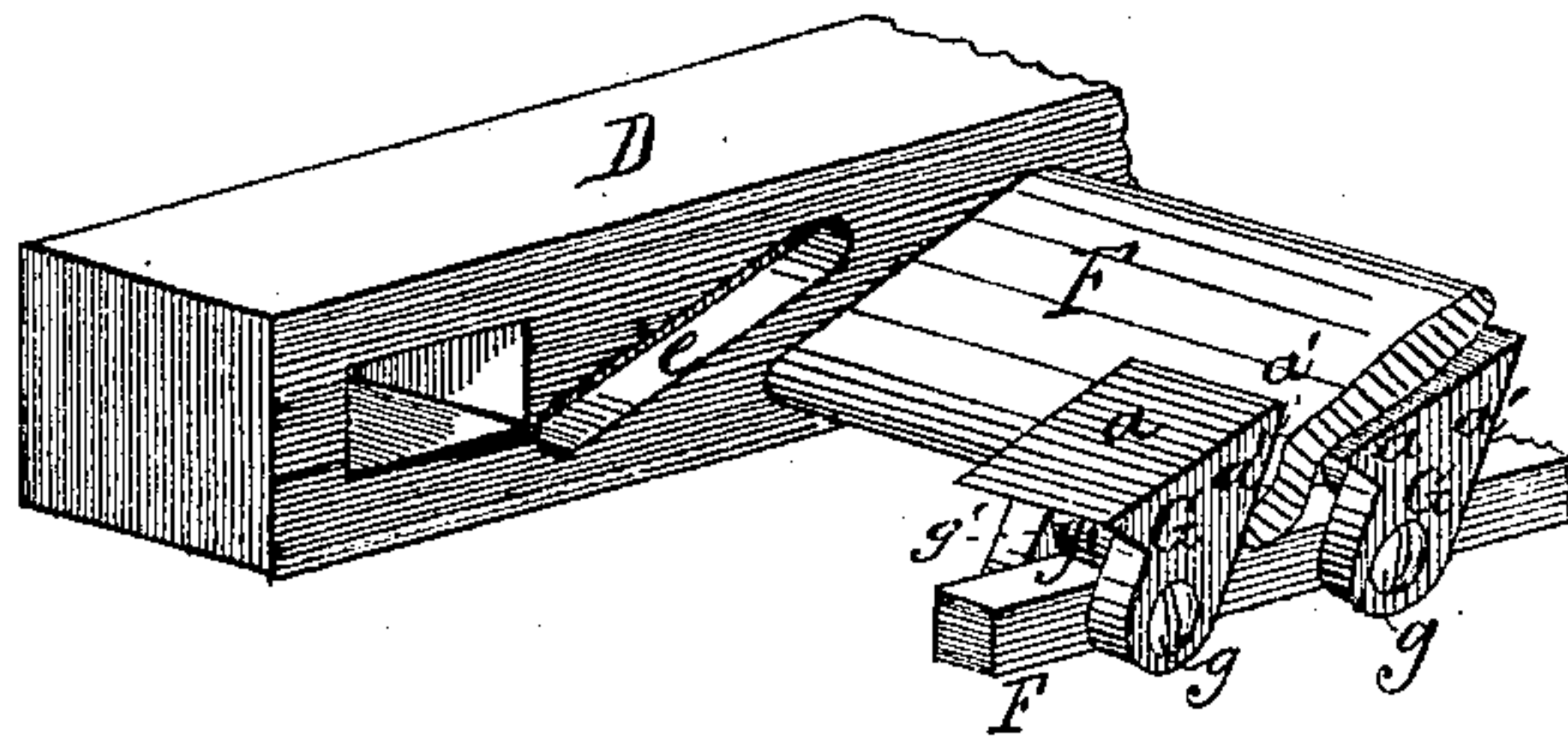


Fig. 2.



Fig. 3.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES CHURCH, OF ST. LOUIS, MISSOURI.

## IMPROVEMENT IN MACHINES FOR ENTERING BLIND-SLATS.

Specification forming part of Letters Patent No. **139,043**, dated May 20, 1873; application filed October 30, 1872.

*To all whom it may concern:*

Be it known that I, JAMES CHURCH, of the city and county of St. Louis and State of Missouri, have invented a certain Improved Machine for Entering Blind-Slats, of which the following is a specification:

My invention consists in a frame having horizontal bars, which are so notched as to hold the slats in the proper position to enter the mortises of the stiles.

Figure 1 is a perspective view, showing one of the machines with a number of the slats in position upon it. Fig. 2 is a longitudinal section through one end of the machine. Fig. 3 is a perspective view, showing a modification.

A B are two similar bars, having their upper surfaces serrated, or having inclined planes or faces *a b*; the inclines of said planes being similar to the inclines of the mortises *e* in the blind-stiles for the reception of the blind-slats. C are cross-bars connecting the bars A B together.

In use the machine will be secured to the work table or bench, and the stiles D and connecting cross-bar D' placed outside of said machine, one of the cross-bars D' abutting against the ends of the bars A B, as indicated in Fig. 2. The slats E are then placed on the inclined planes or faces *a b*, the lower ends of said slats abutting against the shoulders *a' b'* of the bars A B, as indicated in Figs. 1 and 2. The shoulders *a' b'* overhang, so as to hold down the lower edges of the

slats E. By forcing the stiles together the slats will be guided into and readily enter the slots or mortises *e* in the blind-stiles.

In Fig. 3 is shown a modification of the machine, so constructed as to allow for adjustment to suit larger or smaller sizes of sash and different inclines of blind-slats. To longitudinal bars F is secured a series of adjustable lugs, G, having inclined planes or faces *a* and shoulders *a'*. Said lugs G are adjusted longitudinally and inclined as desired, and are clamped in position by set-screws *g*. The slotted portion of the lugs G is preferably rounded, as shown at *g'*, to give a firm bearing on the top of the bar F at all inclinations.

The modification will be used in the same manner as the simple form before described.

A weight may be placed on the slats to keep them in position on the inclined faces *a b*, and against the shoulders *a' b'*.

In place of the duplicate bars A B, a single broad bar or ribbed board may be used; but this form would be both more cumbersome and less effective than the forms shown, and be obviously a mere modification of the same.

What I claim is—

The combination and arrangement of horizontal bars A B with inclined planes or faces *a b*, shoulders *a' b'*, and cross-bar C, as and for the purpose set forth.

JAMES CHURCH.

Witnesses:

SAML. KNIGHT,  
G. E. WHITE.