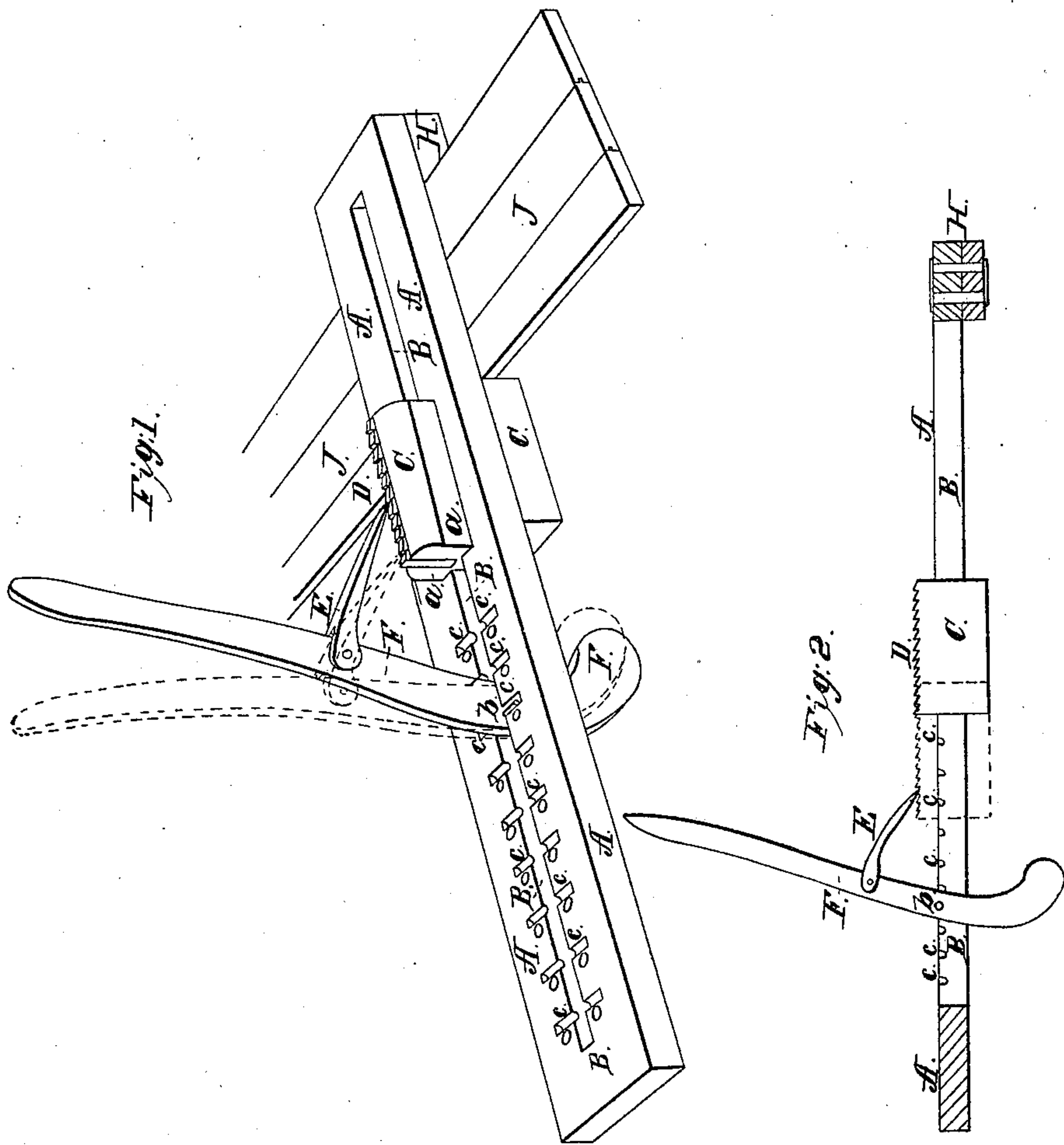


W. S. Todd,

Wood Clamp.

N^o 25,353.

Patented Sep. 6, 1859.



Witnesses:
J. A. Comstock,
James Brown.

Inventor;
William S. Todd.

UNITED STATES PATENT OFFICE.

WILLIAM S. TODD, OF MECHANICSVILLE, IOWA.

JOINER'S CLAMP.

Specification of Letters Patent No. 25,353, dated September 6, 1859.

To all whom it may concern:

Be it known that I, WILLIAM S. TODD, of Mechanicsville, in the county of Cedar and State of Iowa, have invented a new and useful Improvement in Joiners' Clamps; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 represents a perspective view of the clamp showing the operation of the same, and the lever in two positions. Fig. 2 is a vertical longitudinal section through the clamp showing the sliding head-block in two positions.

The nature of my invention consists in arranging upon a slotted frame a sliding head-block provided with rack teeth; and in operating this head-block by means of a pawl and lever, the latter being made adjustable on the frame so that a greater purchase can be maintained in clamping very wide or very narrow boards: described as follows:—

A represents a frame or beam having a longitudinal slot, B; and C is a sliding head-block which is free to move in this slot, and kept within the slot by having shoulders, *a*, formed on it above and below the frame. Extending along the top of this block, C, is a rack, D, into the teeth of which plays a pawl, E, pivoted to a lever, F, so that as the lever is drawn back in operating the block to drive it forward the pawl will also heave with it keeping upon the teeth of the rack, D. This lever, F, passes freely through the

slot, B, in the frame, and has a strong pin, *b*, passing laterally through it which rests upon the frame in suitable notches, *c c*, on each side of the slot, B, serving as a fulcrum for the lever. The pin, *b*, simply rests in these notches, they serving to keep the fulcrum of the lever in a fixed position while the block is being forced forward by the pawl, and these notches being placed at intervals along the slot the lever is moved either back or forth in the slot according to the width of the board to be clamped thus making the fulcrum of the lever longitudinally adjustable.

H is a block bolted on the under side of the frame, A, and near its extreme end; and, J, represents three boards to be joined under the operation of being clamped between the sliding block, C, and the fixed block, H. This clamp is worked by one man while the other nails on the batten and possesses a great advantage over those commonly used by joiners, in that it is simple and can readily be adapted or adjusted to any work, at the same time preserving the same lever power.

What I claim as my invention, and desire to secure by Letters Patent, is:—

The combination of the adjustable lever, F, with the frame, A, and sliding block, C, when the same are arranged, and operate in the manner and for the purposes herein set forth.

WILLIAM S. TODD.

Witnesses:

I. A. COMSTOCK,
LENAS BROWN.