

UNITED STATES PATENT OFFICE.

ALBERT JOHNSON, OF PUTNAM, CONNECTICUT.

IMPROVEMENT IN MACHINES FOR TRIMMING MITER-JOINTS.

Specification forming part of Letters Patent No. 55,499, dated June 12, 1866.

To all whom it may concern:

Be it known that I, ALBERT JOHNSON, of Putnam, Windham county, State of Connecticut, have invented a new and useful Device for Trimming Miters; 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 drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and useful device for trimming miters, planing the same after being sawed, so as to render the surfaces smooth and true or even and admit of a close joint being formed.

The invention consists of a bed connected to a base by means of joints so arranged as to admit of the bed being adjusted in a more or less inclined position, according to the bevel required in one direction, and said bed having an adjustable rest upon it to give a proper bevel to the work in another direction.

A represents a base-plate, which may be of rectangular form, with an upright bar, B, attached to each end. Between these bars B B a bed, C, is secured by pivots *a a*, the latter passing into the bed near one end to admit of the bed being adjusted in a more or less inclined position as required. This bed is secured at any desired angle by means of a set-screw, D, which passes through a slot, *b*, in a segment-standard, E, attached to one end of the base-plate A.

In the bed C, near its rear end, there is made a curved slot, over which a curved metal plate, D', is secured, the latter being also slotted longitudinally nearly its whole length, as shown at *c*, the slot *c* being also curved to correspond to the curvature of the slot in the bed over which plate D' is secured.

F represents a bar or rest, one end of which is secured to the bed C by a pivot, *d*, and through the bar or rest, near its opposite end, a screw, *e*, passes, having a cross-head, *f*, at its

lower end, and said screw passing through the slot *c*, and its cross-head *f* projecting beyond the edges of slot *c* at the under side of plate D. On this screw *e* a thumb-nut, G, is fitted, by turning which the bar or rest may be secured at any desired point within the scope of its movement.

The portion of the base-plate A which extends in front of the bed C has a cleat or strip, *f*^x, attached to its outer edge to serve as a guide for the plane H, the outer edge of the sole *g* of the latter bearing against the cleat or strip. The inner edge of the sole *g* is beveled or inclined, as shown at *h*, to fit under a beveled cleat, *i*, attached to the base-plate. By this means the plane is kept in proper position, and the sole *g* prevented from rising up from the base-plate under the action of the plane-iron upon the stuff or work.

The stuff, after being sawed in beveled or miter form, is placed on the bed C, the bar or rest F being adjusted to suit the bevel or angle of the stuff, so that the beveled surface will be parallel with the face of the plane. The bar or rest F gives the proper bevel in one direction, and the inclination of bed C gives the bevel in the other direction, if the latter bevel is required. If this latter is not required the bed C is adjusted in a horizontal position.

This device, it will be understood, is simply to plane, finish, and true mitered surfaces after being sawed by an ordinary miter-machine. It insures good joints being made, and it will prove to be a valuable acquisition for cabinet-makers, picture-frame makers, and others whose work, in many instances, requires neat miter-joints.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The adjustable bed C, in combination with the adjustable bar or rest F and the plane H, substantially as and for the purpose set forth.

The above specification of my invention signed by me this 14th day of December, 1865.

ALBERT JOHNSON.

Witnesses:

M. M. LIVINGSTON,
ALEX. F. ROBERTS.