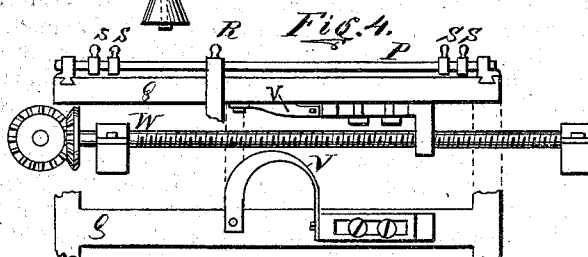
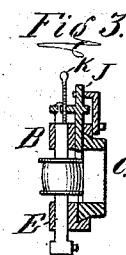
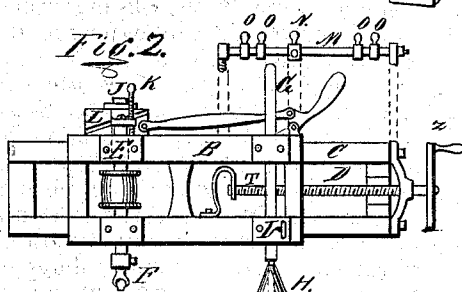
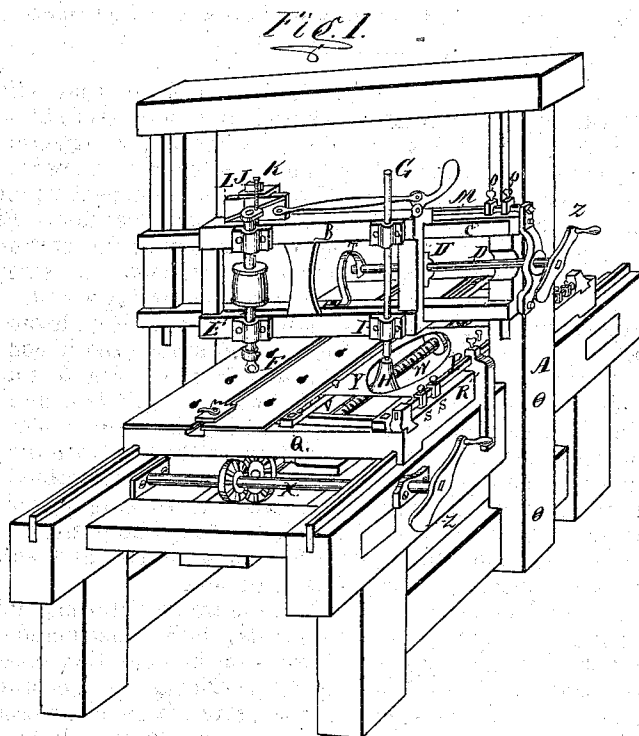


C. H. WILLIAMSON & J. H. ALLYN.

Machines for Molding Panels.

No. 136,800.

Patented March 11, 1873.



Witnesses
M. E. Dunham
Wm. Markell.

Inventors.
Charles H. Williamson
John H. Allyn

UNITED STATES PATENT OFFICE.

CHARLES H. WILLIAMSON AND JOHN H. ALLYN, OF WHITESTOWN, N. Y.

IMPROVEMENT IN MACHINES FOR MOLDING PANELS.

Specification forming part of Letters Patent No. 126,800, dated March 11, 1873.

To all whom it may concern:

Be it known that we, CHARLES H. WILLIAMSON and JOHN H. ALLYN, both of Whitestown, in the county of Oneida and State of New York, have invented certain Improvements in Molding and Paneling Machines, of which the following is a specification:

The first part of our invention relates to the use of a spring, one end of said spring being attached to the bed of the machine the other end to a slotted bar and nut, said bar and nut sliding on two pins fastened to the bed, and said nut working on a screw running lengthwise of said machine, by means of which said bed is moved lengthwise of said machine; also, to the use of a spring, one end being attached to the stationary frame, the other end to the end of a screw, said screw passing through a nut fastened to the said sliding frame, by means of which said nut and screw the said sliding frame is moved crosswise of said machine; the object of this part of our invention being, by means of the two said springs acting in concert with the said screws, to give a uniform pressure of a cone against the edge of a pattern when said cone is being guided around the pattern by the united action of said screws. The second part of our invention relates to a rod with each end attached to the said bed, and passing through a slotted bar with set-screw, said bar attached to the frame of the machine in such a manner that the motion of the said bed may be stopped at any given point; also, to four adjustable stops sliding on the said rod, by means of which said bed may be stopped at any given point or points; also, to a rod attached at each end to the aforesaid stationary frame, and passing through a slotted piece with set-screw attached to the aforesaid sliding frame, with four adjustable stops sliding on said rod in the same manner, and acting in concert with said rod and stops attached to the aforesaid bed; the object of this part of the invention being to cut square panels of various sizes independently of the cone and pattern. The third part of our invention relates to the use of a sliding head containing a bearing for one end of the arbor, and an adjusting-screw, a grooved block sliding on a pin in said sliding head held in position by a piece attached to the aforesaid sliding frame; the object of this part of

the invention being that said arbor may be elevated and depressed to any point determined by the adjusting-screw by means of a pitman and lever, as shown.

Figure 1 is a perspective view of a machine embodying our invention. Fig. 2 is a front elevation, showing the stationary frame with the spring attached and screw with a nut attached to the sliding frame; also, the arbor-spindle and cone; also, elevated plan, showing the rod and stops used in connection with the aforesaid frames. Fig. 3 is an end elevation of the same. Fig. 4 is a side elevation of the bed, showing the manner of connecting the rod and stops to the bed, with the spring attached to the bed and to the slotted bar with the nut; also, said nut working on the screw. Fig. 5 is a plan, showing the position of the spring and slotted bar with nut and screw on the lower side of the bed.

A is the frame of the machine, which should be substantially constructed to resist the vibrations of the operating parts. B is the sliding frame sliding on the stationary frame C. D is the screw by which a crosswise motion is communicated to the sliding frame B. E is the arbor with the pulley for the driving-belt. F is the cutter held in the lower end of the arbor by a set-screw. G is the spindle with the cone H attached, and may be elevated or depressed, and held in position by the set-screw I. J is the sliding head with bearing for upper end of the arbor E, also containing the screw K for adjusting the position of the arbor E and cutter F while operating. L is a block with a groove running diagonally across the face, sliding on a pin attached to the sliding head J, with pitman and lever attached to the block L, by means of which the arbor E and cutter F may be elevated and depressed while operating. M is a rod passing through the stop N attached to the sliding frame B, with the adjustable stops O O O O acting in concert with the rod P attached at each end to the bed Q, and passing through the slotted bar R with the adjustable stops S S S S, by means of which, acting in concert with the other parts, square panels may be cut independently of the spindle G and the cone H. T is the spring attached to the stationary frame C and forming a bearing for the screw D, said screw passing through the nut U at

tached to the sliding frame B. V is the spring attached to the bed Q and to the slotted bar and nut, said nut working on the screw W, moving the bed Q lengthwise of the machine by means of the gear and shaft X, the combined action of the springs T and V, in concert with the screws D and W, moving the bed Q and the sliding frame B with the arbor E and the cone H, thus producing an effective method of guiding the cutter F, while operating by means of the cone H, pressed uniformly against the edge of the pattern Y by the manipulation of the cranks Z Z attached to the screw D and to the shaft X of the machine.

We make no claim to the bed and stationary frame, nor to the sliding frame separately, nor to the use of screws and gear for moving the bed and sliding frame separately; neither do we claim the arbor nor the spindle separately; but

We claim as our invention—

1. The springs T and V, substantially as and for the purpose hereinbefore set forth.

2. The combination of the rods M and P, with the stops N and R with the adjustable stops O O O O and the adjustable stops S S S S, substantially as and for the purpose hereinbefore set forth.

3. The combination of the sliding head J, the grooved block L, the adjusting-screw K with the pitman and lever, substantially as and for the purpose hereinbefore set forth.

CHARLES H. WILLIAMSON.
JOHN H. ALLYN.

Witnesses:

M. E. DUNHAM,
WM. MARKELL.