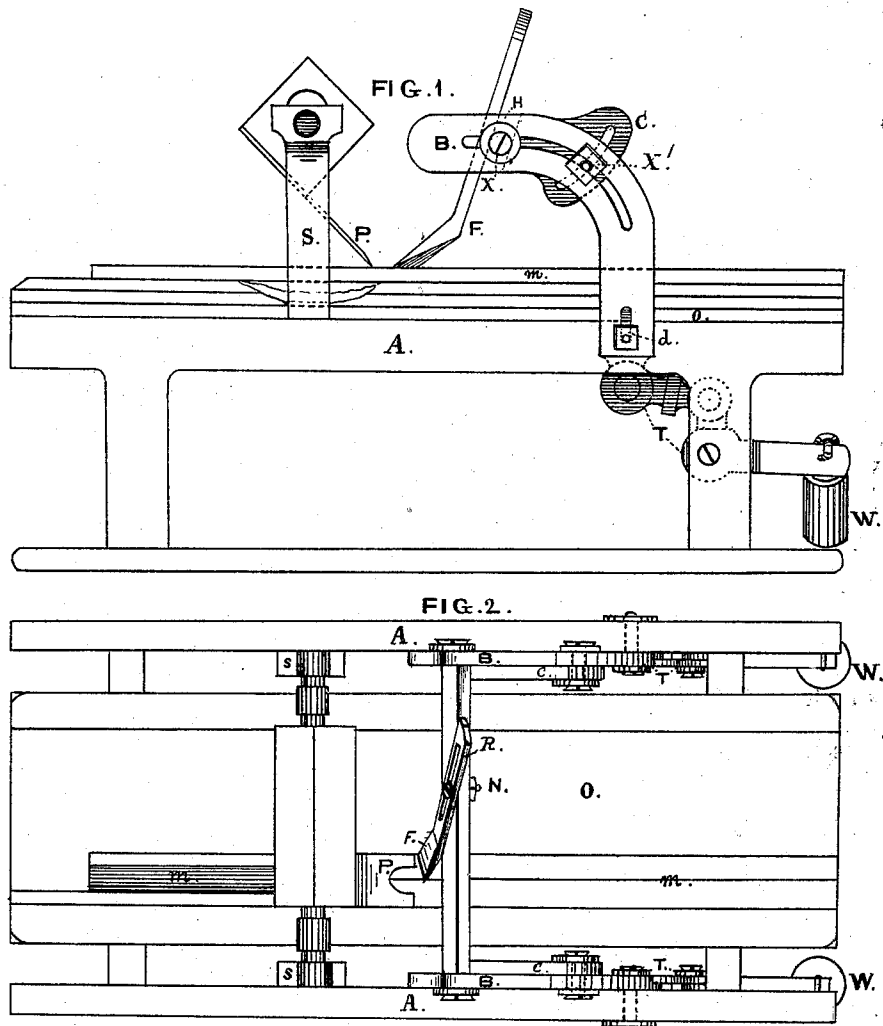


J. S. LOOMIS.

ADJUSTING PRESSURE-FEET OF MOLDING-MACHINES.

No. 171,296.

Patented Dec. 21, 1875.



Robert A. Morrison
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John S. Loomis.

UNITED STATES PATENT OFFICE.

JOHN S. LOOMIS, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN ADJUSTING PRESSURE-FEET OF MOLDING-MACHINES.

Specification forming part of Letters Patent No. **171,296**, dated December 21, 1875; application filed November 2, 1875.

To all whom it may concern:

Be it known that I, JOHN S. LOOMIS, of the city of Brooklyn, in the county of Kings and State of New York, have invented a certain novel and useful Improvement in Adjusting Pressure-Feet of Molding-Machines; and I hereby declare in what manner the same is to be constructed, arranged, and operated, reference being had to the accompanying drawings, which are lettered to correspond with and form a part of the specification.

To enable those skilled in the mechanic arts to construct and operate the same, I will describe it as follows, to wit:

Before describing the individual parts of my invention, I will here state that its object is to produce a more uniform pressure upon the different surfaces or planes of the strip to be dressed for moldings or for other purposes while passing through the machine, and when it becomes necessary, as in a planing-machine, two independent pressure-feet, arranged one at the back of the revolving cutter-head, and the other, as shown in the drawings, immediately in front of the cutter P, may be employed, both arranged and operating substantially as set forth in the following words:

Figure 1 is a side elevation of a molding-machine.

A is the supporting frame-work or table, upon which the bed *a* rests. B B are curved arms, provided with curved slits, in which the bolts X X' are operated to adjust the slitted head H and pressure-foot F nearer to or farther from the revolving cutter P, upon either a thin or thick molding, or upon a strip, *m*, of different thicknesses. C C are supporting-braces secured to and at the rear of the head-block H, for the purpose of throwing the pressure-foot F from the cutter while adjusting it to the different thicknesses of the strip *m*, provided with a vertical curved slit, in which the pin X' operates, when the pressure-foot F is

raised or lowered, on an arch in close proximity to the cutting-knife P, without coming in contact with the same.

Fig. 2 is a plan view, showing the top of the molding-machine A.

The molding is shown upon the table or bed *a* at *m*. P is the cutter or plane. F is the pressure-foot, provided with the slitted shank R, and secured to the head H, to be operated at different angles, by means of the bolt and nut N in the long straight slit in the said head, in combination with the slitted braces C C. S S are standards to support the cutter-head. T T are toggle-joints of the curved arms B B. W W are weights to produce the pressure through the foot F upon the molding *m*.

The novelty of this invention consists in the mode of operating a single pressure-foot at different angles, to suit the different thicknesses and surfaces of the moldings or strips *m*, in close proximity to the cutters, without being in danger of coming in contact with the same. It further consists in carrying the pressure-foot F from, instead of against, the cutter, to operate upon a thick or thin material, by means of the slotted lug C, placed behind the pressure-foot F.

What I claim as novel and useful, and wish to protect by Letters Patent of the United States, is—

The pressure-foot F, with slotted shank R, operating at different angles upon the screw-pin X, in combination with the slotted transverse head H and arms B, with the supporting-braces C, all arranged and operating in the manner and for the purpose set forth.

In testimony whereof I hereunto subscribe my name in the presence of two witnesses.

JOHN S. LOOMIS.

Witnesses:

JAMES P. McLEAN,
ROBERT A. MORRISON.