(No Model.)

W. J. SMITH.

WOOD MOLDING MACHINE.

No. 347,970. Patented Aug. 24, 1886.

Fig. 1.

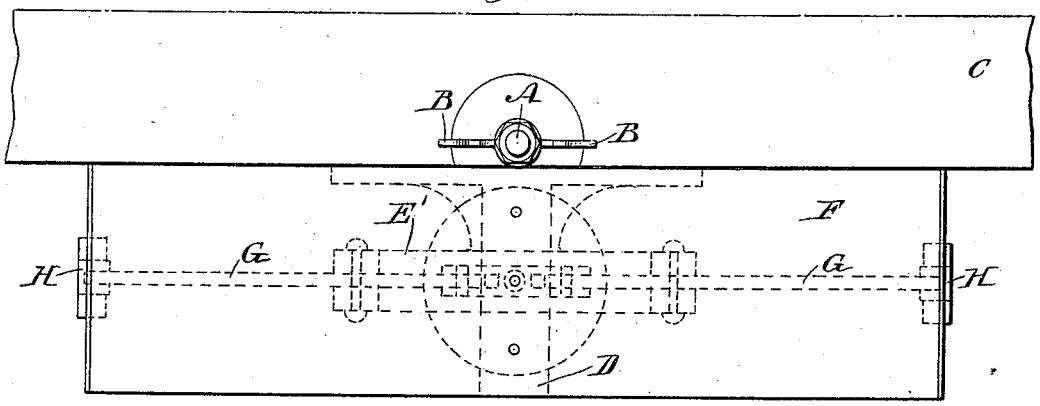


Fig. 2.

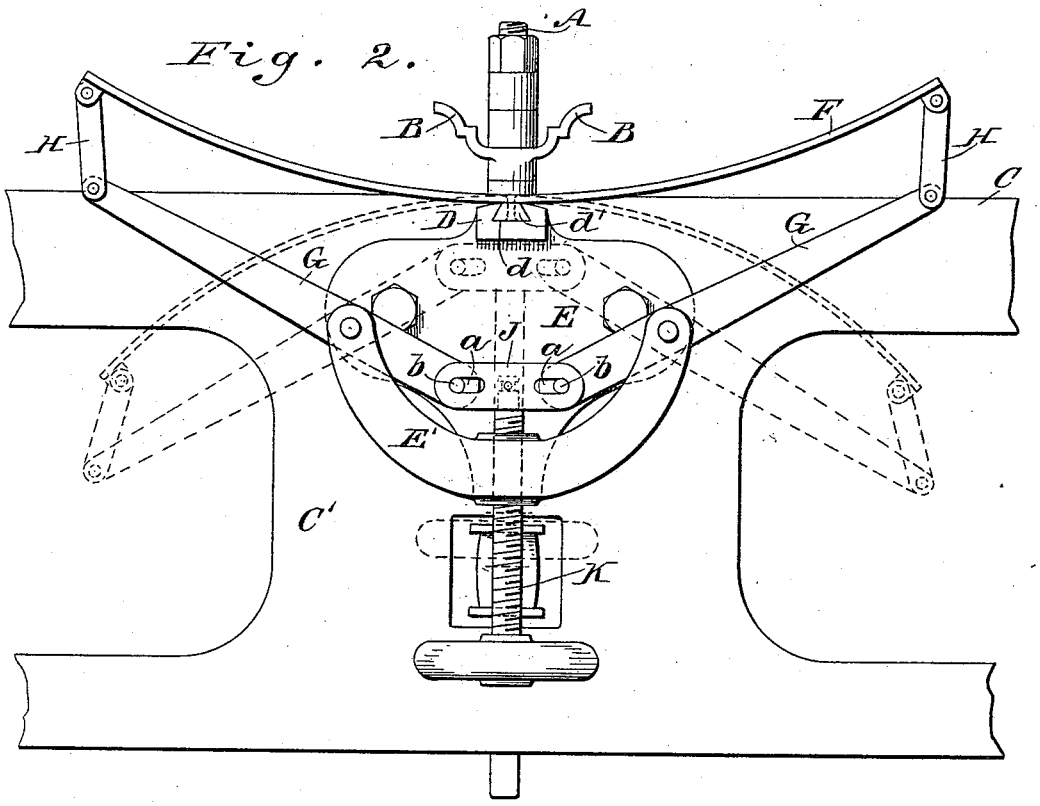
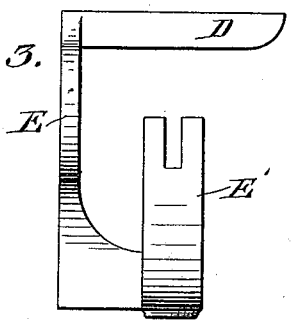


Fig. 3.



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WALTER J. SMITH, OF PHILADELPHIA, PENNSYLVANIA.

WOOD-MOLDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 347,970, dated August 24, 1886.

Application filed April 1, 1886. Serial No. 197,430. (No model.)

To all whom it may concern:

Be it known that I, WALTER J. SMITH, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Wood-Molding Machine, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of a part of the table, spindle, knives, and rest of a wood-molding machine. Fig. 2 is a front elevation of the same, and Fig. 3 is a side view of the rest-casing.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

The spindle A, to which the molding-knives B are attached, is set near the edge of the main table C, so the knives will reach somewhat beyond the table. In line with the spindle A is secured to the table C or rather to the frame C', which supports the table, the narrow rest or arm D. This is, by preference, made a part of a casting, E, adapted to be bolted to the frame C', and the upper surface of the rest D may be curved, and it may be used, without other attachments, as a support or rest for curved work where the peripheral or curved surface constitutes the base of the work. In this instance the upper surface of the rest or arm D is formed with a dovetailed groove, *d*, for attaching to it the large curved rest F, for molding curved work of large radius. The under surface of the rest F is provided in this instance with the beveled rib *d'*, that fits the dovetail *d*, for attaching the rest F in place for use. There may be several interchangeable rests F of different curves, or the rest may be adjustable as to its curvature, in which case it will be composed of a thin plate of steel or other elastic material, having levers or bending devices attached to its ends to set it at any curve desired. In this instance, for adjusting the plate or rest F, I employ the levers G G, fulcrumed in the ends of the curved portion E' of the casting E, connected at their outer ends to the ends of the plate by the links H H, and connected at their adjacent ends, by slots *a* and pins *b*, to the yoke or block J, which is adapted to be vertically adjusted by the screw K, fitted in the bottom of the casting E. By turning the screw K to lift the block J the outer ends of the levers G may be forced downward, which will accordingly draw down the ends of the plate F and change the curvature thereof from a concave of greater or less radius to a convex of greater or less radius, as will be understood from the full and dotted lines in Fig. 2.

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

1. The elastic rest F, adapted to be attached to an arm, D, adjacent to the spindle, and molding-knives A B, in combination with an adjusting-screw working in a fixture and carrying a follower or block connected to the said rest, for changing the curvature of the rest, substantially as described.

2. The elastic rest F and the levers G, connected to the ends of the rest and connected to the movable block J, in combination with the supporting-casting E and the adjusting-screw K, substantially as and for the purposes set forth.

WALTER J. SMITH.

Witnesses:
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