(No Model.)

T. H. H. WEBSTER.

MOLDING MACHINE.

No. 304,980. Patented Sept. 9, 1884.

Fig. 1.

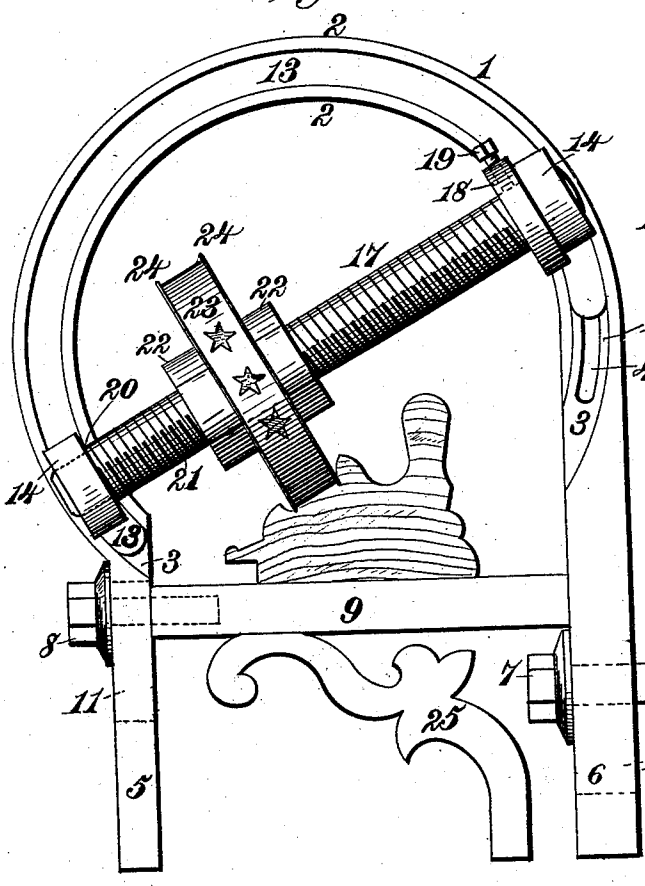


Fig. 2.

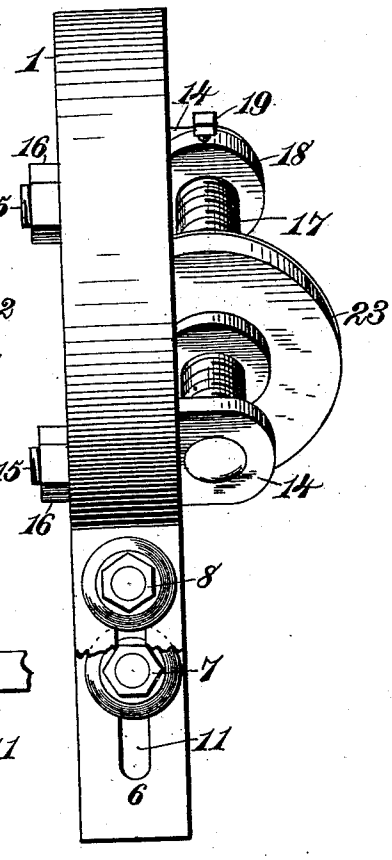
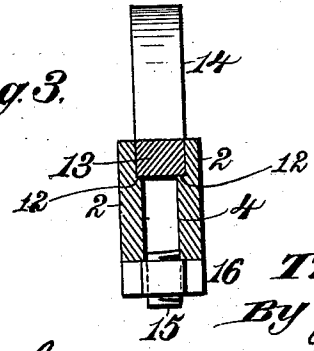


Fig. 3.



Witnesses.
Robt Everett.
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Inventor.
Thomas H. H. Webster.
By James L. Norris.
Atty.

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UNITED STATES PATENT OFFICE.

THOMAS H. H. WEBSTER, OF BALTIMORE, MARYLAND, ASSIGNOR OF TWO-THIRDS TO WILLIAM A. PERKINS AND A. FREDERICK KEUBLER, BOTH OF SAME PLACE.

MOLDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 304,980, dated September 9, 1884.

Application filed March 20, 1884. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. H. WEBSTER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented new and useful Improvements in Attachments for Wood-Molding Machines, of which the following is a specification.

This invention has for its object to provide a novel, simple, and efficient attachment for ordinary wood-molding machines, whereby the molding, after leaving the cutter, is impressed, stamped, printed, or stenciled to produce thereon a line or lines of ornamental designs, figures, or characters—such as gilding—which it is usual to provide on moldings in order to beautify and render them more attractive in appearance. This I accomplish in the manner and by the means hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the attachment; Fig. 2, an edge view, partly broken away; and Fig. 3, a transverse sectional view of the circular head carrying the bearings of the wheel-shaft.

Referring to the drawings, the number 1 indicates a circular head formed by inner and outer webs, 2 2, joined at their ends by solid portions 3 3, the space between such portions being in the form of an open circular slot, 4, which describes one-half of a circle, more or less. The ends of the circular heads are extended downward, as at 5 and 6, the limb 6 carrying a screw-bolt, 7, by which the attachment is bolted to the delivery end of any wood-molding machine. The limb 5 is provided with a screw-bolt, 8, screwed into the bed-plate or platform 9, the molding, after leaving the cutters, traveling on and supported by the said bed-plate. The two pendent limbs are each provided with a vertical slot, 11, through which the screw-bolts 7 and 8 pass, the object of which is to permit the circular head to be adjusted vertically relatively to the stationary bed-plate. One edge of each web 2 is rabbeted, as at 12, to form a circular groove or recess to receive a circular sliding plate, 13, which is of an outline conforming to that of the webs, and adjacent to each end of such plate is mounted a sleeve-bearing, 14, secured in place by an attached bolt, 15, passing through the plate 13 and the slot 14 of the head, the end of the bolt having a screw-nut, 16, for securing the bolt in position, as well as holding the circular plate in its seat after adjustment and the sleeve-bearing in place thereon. In the sleeve-bearings are loosely journaled the ends of a shaft, 17, a collar, 18, having a set-screw, 19, serving to prevent longitudinal movement of the shaft in one direction, while the shouldered end 20 prevents longitudinal movement in the opposite direction, by which means the shaft is retained in the bearings. The shaft is screw-threaded, as at 21, its entire length between the set-collar and the sleeve-bearing at the opposite end, two screw-collars, 22, being applied to the screw-shaft to clamp a wheel, 23, between them, which wheel can be adjusted longitudinally along the shaft by turning the screw-nuts in the proper direction, as will be obvious. The wheel 23 is provided on its periphery with the designs, characters, or figures which are to be produced on the molding, which designs may be of any desired pattern usually produced on moldings. The molding, leaving the cutter, passes upon the bed-plate 9, beneath and in contact with the ornamenting-wheel, and the traveling movement of the molding causes the wheel to revolve, which acts to impress, print, or stamp the design on the molding, suitable material being preferably supplied to the designs on the wheel, which are transferred to the molding, by which means the latter can be gilded.

The periphery of the pattern-wheel at the edges is provided with sharp annular rims 24, for the purpose of slightly entering the molding, and thus forming marginal lines along the ornamental pattern produced by the wheel, thus bringing the line of ornamental pattern into greater prominence, and at the same time relieving the wood from the appearance of having been depressed.

The angle at which the pattern-wheel is presented to the molding can be conveniently

changed to suit the conditions required by simply loosening the nuts 22 and sliding the circular plate around in its grooved seat, which adjusts the sleeve-bearings—one upward and the other downward—after which the circular plate is held in its adjusted position by screwing up the said nuts.

The position of the pattern-wheel can be changed along the length of the screw-shaft for the purpose of acting on moldings of varying width, or on moldings where the parts to be ornamented are in different longitudinal lines, while the distance between the wheel and the bed-plate can be readily changed for the purpose of acting on moldings of varying height or thickness.

By having the bearings at the ends of the screw-shaft I avoid the presence of any obstruction along the shaft, and consequently the wheel can be moved along the entire length of the shaft, if occasion demands.

I do not confine myself to arranging the circular adjustable plate in a groove of the circular head, for while this is the most advantageous arrangement it can be varied without departing from the spirit of my invention.

In practice the bed-plate 9 will be supported by a bracket, 25, or otherwise, from a part of the molding-machine.

This attachment provides simple but efficient means whereby moldings as they pass through the molding-machine can be impressed, printed, stamped, or stenciled with a line of ornamental designs, figures, or characters of any desired pattern without subsequent handling after the molding is formed.

Having thus fully described my invention, what I claim is—

1. In an attachment for molding-machines, the combination of a head having a circular slot, bolts passing therethrough and carrying bearings at one end, a shaft supported at its ends in the bearings, means whereby the bearings may be adjusted around the slot, and a pattern-wheel on the shaft, substantially as described.

2. The combination of a head having a circular slot and a pendent limb provided with means by which to secure it to a wood-molding machine, bolts passing through the circular slot and having screw-nuts, bearings connected to and movable with the bolts around the slot, a shaft supported at its ends by the bearings, and a pattern-wheel on the shaft, substantially as described.

3. The combination of a head having a circular slot and means to secure it to a molding-machine, a bed-plate for receiving and supporting the molding, devices for adjusting the slotted head vertically, bearings adjustable around the circular slot, a shaft supported at its ends by the bearings, and a pattern-wheel on the shaft, substantially as described.

4. The combination of a head having a circular slot, the circular sliding plate, the bolts passing through the end portions of the plate and the slot, the bearings on the bolts, the shaft supported at its ends by the bearings, and the pattern-wheel on the shaft, substantially as described.

5. The combination of the circular head having means to secure it to a wood-molding machine, a bed-plate for receiving and supporting the molding, a circular plate adjustable in a circular path around the head, bearings on the end portions of the plate, a shaft supported at its ends by the bearings, and a pattern-wheel on the shaft, substantially as described.

6. The combination of the head having the circular slot and circular rabbeted edges, the circular plate arranged in the rabbeted edges and adjustable in a circular path, bearings on the ends of the plate, a shaft supported at its ends by the bearings, and a pattern-wheel on the shaft, substantially as described.

7. The combination of a head having means to connect it with a wood-molding machine, a shaft mounted at its ends in bearings adjustable around the head in a circular path, and a pattern-wheel adjustable along the length of the shaft, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

THOMAS H. H. WEBSTER.

Witnesses:
JOS. L. COOMBS,
J. A. RUTHERFORD.