(No Model.)

H. JOHNSON.

MACHINE FOR MAKING WOODEN MOLDING.

No. 539,620. Patented May 21, 1895.

Fig. 1.

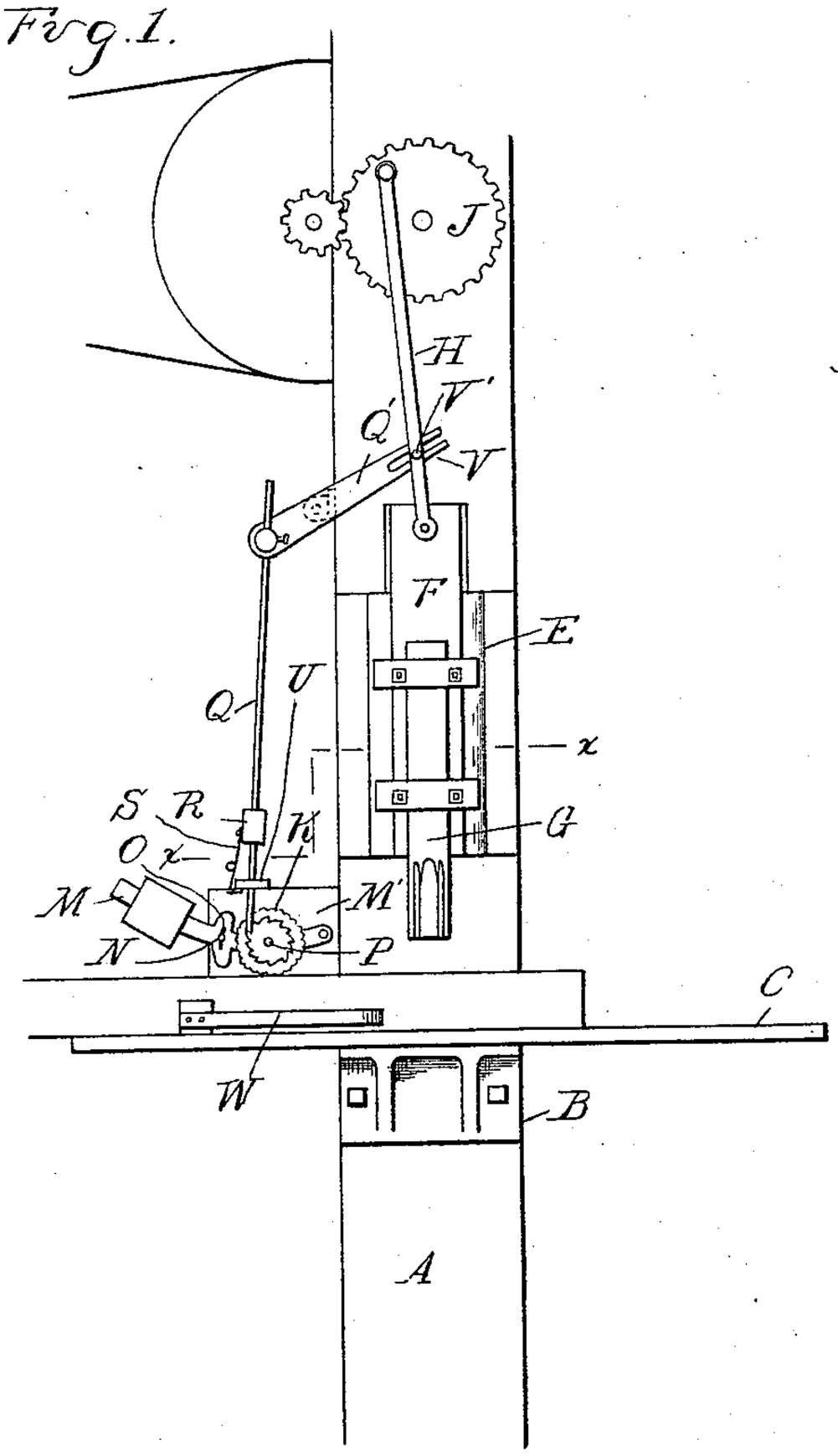


Fig. 4.

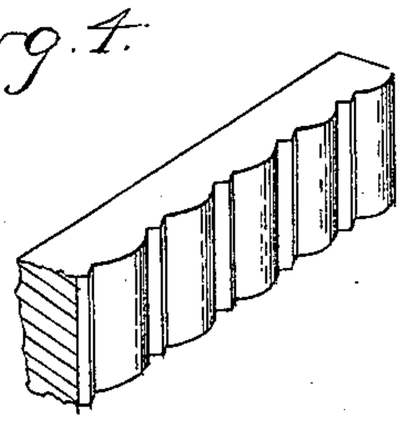


Fig. 3.

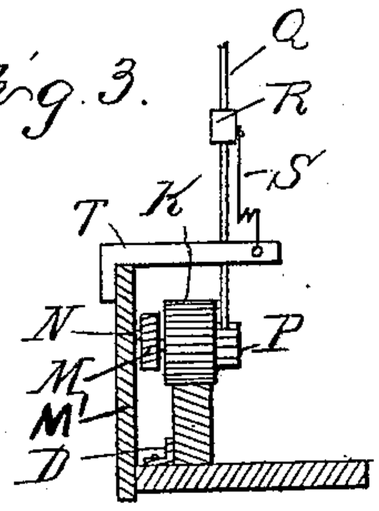
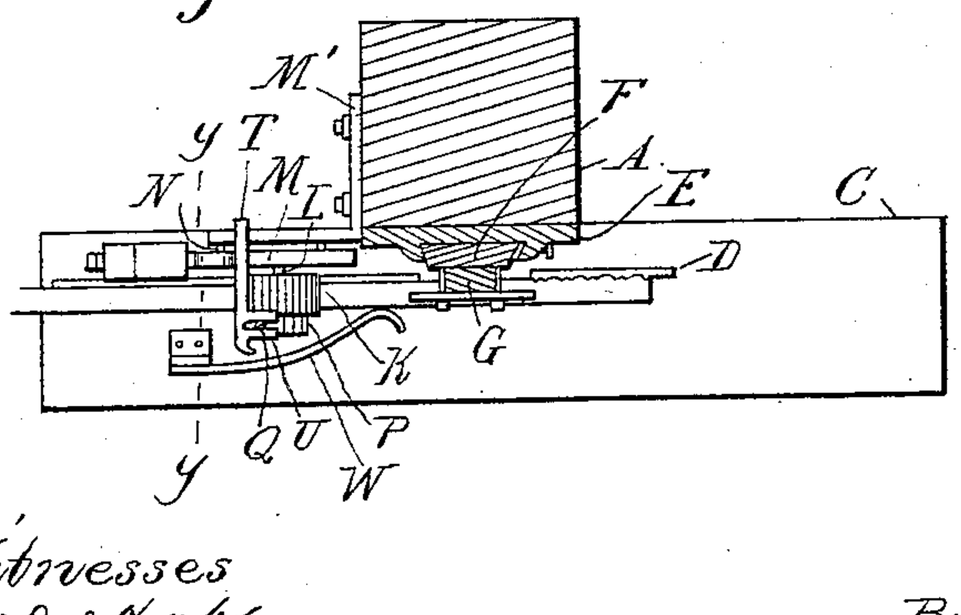


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY JOHNSON, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO THE WOLVERINE MANUFACTURING COMPANY, OF SAME PLACE.

MACHINE FOR MAKING WOODEN MOLDING.

SPECIFICATION forming part of Letters Patent No. 539,620, dated May 21, 1895.

Application filed October 2, 1894. Serial No. 524,724. (No model.)

To all whom it may concern:

Be it known that I, HENRY JOHNSON, a subject of the King of Denmark, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Machines for Making Wood Molding, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the construction of a machine comprising a frame or standard, a reciprocating chisel or knife thereon, and a feed wheel for the work, actuated from the actuating devices of the knife or chisel, and particularly in the construction, arrangement and combination of the various parts, all as more fully hereinafter described.

In the drawings, Figure 1 is a front elevation of my improved machine. Fig. 2 is a horizontal section on line *x x*, Fig. 1. Fig. 3 is a vertical section on line *y y*, Fig. 2. Fig. 4 is a perspective view of a part of the molding produced by my machine.

A is a standard. B is a bracket thereon.

C is a table on the bracket supporting the work. D is a guide block thereon.

E is a plate on the face of the standard, having a dovetail groove therein consisting preferably of a strip of angle iron as shown in Fig. 3 in which slidingly engages the head F, carrying the chisel on cutter G. The head and its chisel are vertically reciprocated by the connecting rod H connected at one end to a pin at the top of the head F, and to a wrist-pin on the gear wheel J, at the other end. This gear wheel is driven from any suitable source of power.

K is a feed wheel, journaled on a stub shaft L on the weighted lever M, pivoted to the bracket M′ on the side of the post. Its movement is limited by the pin N on the bracket M′ working in the segmental slot O in the lever M.

On the stub shaft L, beside the feed wheel K and secured thereto is a ratchet wheel P. The ratchet wheel and the feed wheel are rotated in the upward movement of the head F by means of the rod Q adjustably secured at one end to the lever Q′ and at the lower end adapted to engage the ratchet wheel, being held in engagement therewith by the guide block R through which the rod passes which is supported on the upper end of a spring S which acts to hold the lower end of the rod in engagement with the ratchet wheel at all times. This spring is secured at its lower end upon the finger T, which is provided with the forked guide bearing U in which the rod engages. The inner end of the lever Q′ has the bifurcation V, engaging a pin V′ on the connecting rod H.

The blank being fed into the machine beneath the feed wheel, will thence be intermittently fed by the mechanism described, that is, as the rod H rises it will carry up the inner end of the lever Q′ depressing the lower end which carries down the rod Q. The lower end of this rod engages the ratchet wheel and rotates the same, thereby turning the feed wheel. As the knife or chisel descends, it cuts the face of the work into the desired shape, such for instance as shown in Fig. 4. The work is held from lateral movement by the spring guide W secured to the table, which presses against the face of the work as shown in Fig. 2.

What I claim as my invention is—

In a machine for making wood molding, the combination with a reciprocating cutter, mechanism for actuating the cutter and a pivoted connecting rod between the same and cutter having a lateral projection, of a feed mechanism comprising a vertically movable feed wheel, a weighted arm on which the wheel is mounted, a ratchet wheel connected with the feed wheel, a vertically disposed actuating rod having its lower end normally in engagement with the ratchet wheel, a fixed guide U for preventing the lateral movement of the actuating rod, a sleeve loosely mounted on the rod above the guide, a spring fixedly secured at one end, and at the opposite end to the sleeve normally tending to press the sleeve toward the cutter, a rocking lever arranged above the cutter slidingly engaging the projection on the connecting rod at one end, and an adjustable connection between the opposite end of the rocking lever and the upper end of the feed actuating rod, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY JOHNSON.

Witnesses:

M. B. O'DOGHERTY,

L. J. WHITTEMORE.