(No Model.)

S. F. MOORE.

CARVING MACHINE.

No. 457,165. Patented Aug. 4, 1891.

Fig. 1.

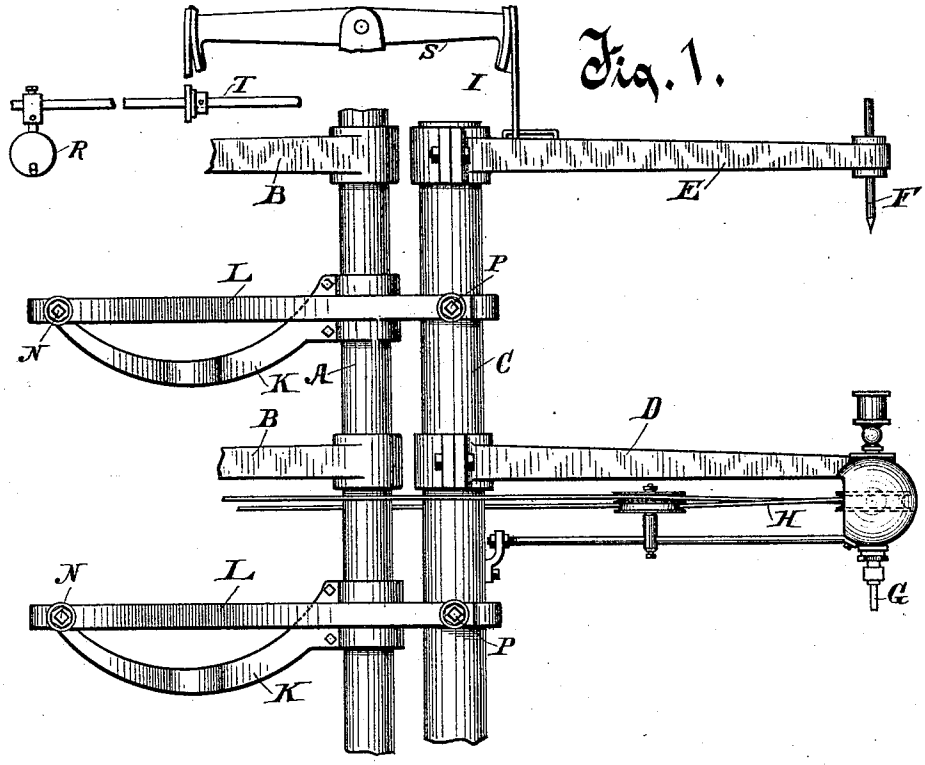
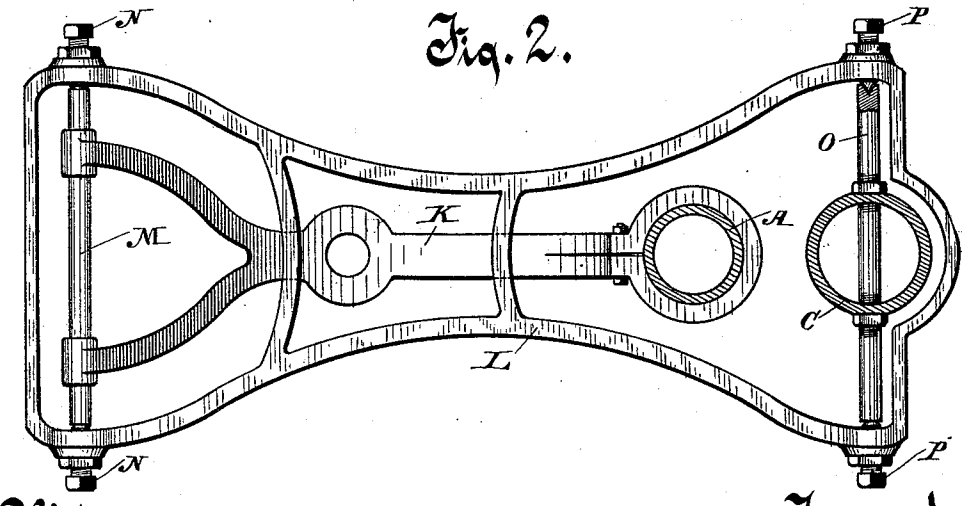


Fig. 2.



Witnesses.

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STEPHEN F. MOORE, OF MILWAUKEE, WISCONSIN.

CARVING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 457,165, dated August 4, 1891.

Application filed February 13, 1891. Serial No. 381,363. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN F. MOORE, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Improvement in Carving-Machines, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to improvements in that class of carving-machines in which a rotating cutting-tool controlled by a guiding-tool fixed in a concurrently-moving part of the frame is used to accomplish the desired work, and is an improvement on the machine for which Letters Patent No. 452,144 were issued to me on May 12, 1891, to which reference is made for more full information of the general construction of the machine.

In the drawings, Figure 1 is a fragment in elevation of a carving-machine in which my improved devices are embodied. Fig. 2 is a top plan view of the improved device, a part being broken away to show interior construction.

The vertical standard A is fixed and supported in horizontally-swinging arms B. The post C carries fixed thereon one or more tool-carrying arms D and the guide-carrying arm E. The guide F is supported in the arm E above the rotating cutting-tool G, carried on the arm D, which cutting-tool is rotated by a belt H, running on a pulley on the shank of the tool and on a power-supplying pulley. The post C and the thereon-carried arms E and D are supported by a counterpoise R, connected mechanically to the arm E through cord I, lever S, and lever T, connected to lever S and carrying the counterpoise. Any similar or equivalent means of balancing the post C and arms thereon may be used. The post C is required to have a limited amount of vertical movement, and is connected with the standard A, so as to have a horizontal swinging motion therewith; and the object of my invention is to provide proper devices for connecting the post C with the standard A, so as to secure the horizontal swinging motion therewith and permit a limited amount of substantially vertical and entirely parallel motion relative thereto. Bracket-arms K are fixed on the standard A and project rearwardly therefrom. Oscillating arms L are pivoted at their rear ends to the arms K by and through pivot-pins M, fixed in the arms K, having pivot-bearings on the bolts N, turning through the arms L. At their front ends the arms L are pivoted to the post C by and through the pins O, fixed in the post C, which pins have pivot-bearings on the bolts P, turning through the arms L. By this construction the post C is held to horizontal movement with the standard A and has a limited vertical movement through the oscillating arms L.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a carving-machine, the combination, with a vertical horizontally-swinging standard, of a vertical tool and guide-carrying post in front of the standard, and devices for connecting the post to the standard, so as to hold it to horizontal movement therewith and to permit a substantially vertical movement parallel therewith, which devices consist of rearwardly-extending arms fixed to the standard, and oscillating arms pivoted to the rearwardly-extending arms at a distance in the rear of the standard and pivoted to the post in front of the standard, substantially as described.

2. In a carving-machine, the combination, with a horizontally-swinging vertical standard A and thereto-affixed rearwardly-projecting brackets K, of a post C, counterpoised in front of the standard A, oscillating arms L, pivoted at their rear ends to the brackets K, so as to have vertical movement only relative thereto and pivoted at their front ends to the post C, so as to permit vertical oscillation only thereon, substantially as described.

3. In a carving-machine, the combination, with a horizontally-swinging vertical standard and thereto-affixed rearwardly-projecting bracket-arms, of a tool-carrying post located and movable vertically in front of the standard, oscillating arms L, and pivot-pins M and O, by which the arms L are pivoted, respectively, at their rear ends to the bracket-arms and at their front ends to the vertically-movable post, substantially as described.

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

STEPHEN F. MOORE.

Witnesses:

C. T. BENEDICT,

ANNA V. FAUST.