C. F. H. HUFF.

Molding and Carving-Machine.

No. 206,570. Patented July 30, 1878.

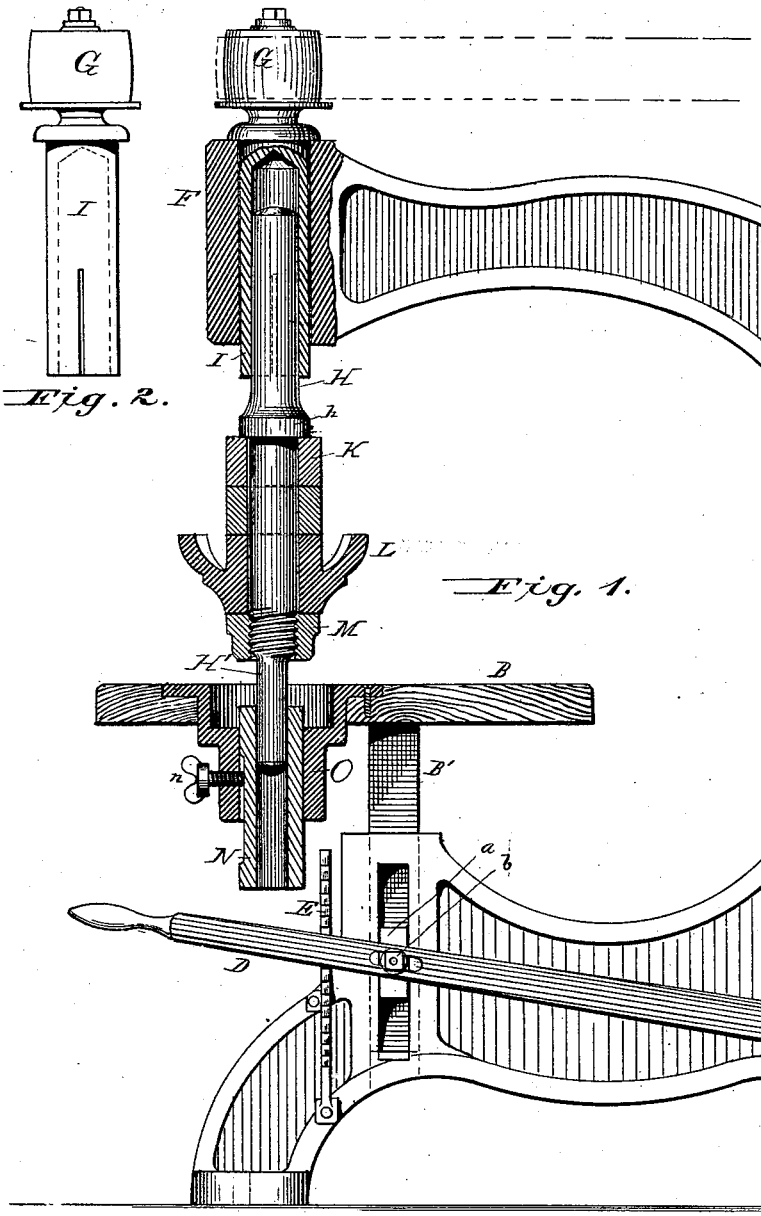
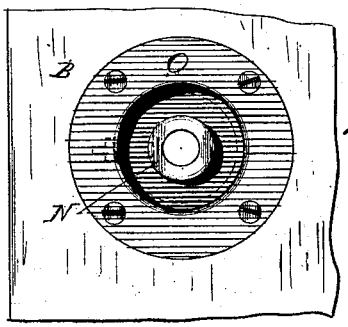


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHAUNCEY F. H. HUFF, OF COVINGTON, KENTUCKY, ASSIGNOR TO J. A. FAY & CO., OF CINCINNATI, OHIO.

IMPROVEMENT IN MOLDING AND CARVING MACHINES.

Specification forming part of Letters Patent No. **206,570**, dated July 30, 1878; application filed June 5, 1878.

To all whom it may concern:

Be it known that I, CHAUNCEY F. H. HUFF, of Covington, in the county of Kenton and State of Kentucky, have invented certain new and useful Improvements in Molding and Carving Machines, of which the following is a full, clear, and exact description.

This invention relates to machines for cutting moldings on the edges of wood-work and for forming projecting or receding molded panels on the faces thereof, patterns or templets being used to insure accurate and uniform work by the cutting-tool; and it has reference more particularly to machines of this kind where cutting-tools are used having a separate spindle or shank adapted to be chucked onto the driving-arbor of the machine.

One object of the invention is to support the spindle of the cutting-tool both above and below the cutters; to which end one feature of the invention consists of certain combinations and arrangements of the driving-arbor of the machine, the spindle of the cutting-tool adapted to be chucked or secured to the driving-arbor with one end, and a bearing for supporting the other elongated end of said tool-spindle. By reason of this construction the workman may use cutters either above or below the pattern, and the tool-spindle is so rigidly supported that a much heavier cut may be made than on machines of this character where the tool-spindle is supported at one end only.

In the accompanying drawings, Figure 1 is a partly-sectionized side elevation of so much of a machine for carving and molding wood as requires to be shown for the purpose of clearly exhibiting the invention set forth. Figs. 2 and 3 are detail views of detached parts of the machine.

The same letters of reference indicate like parts in all the figures.

A refers to the **C**-shaped stand or frame of the machine, in the front portion of the base of which a socket is formed for the reception of the post B′ of the table B. The post B′ of the table is connected by a wrist-pin, *b*, projecting laterally through a vertical slot, *a*, in the stand to a lever, D, pivoted on the stand, and adapted to be locked at any point of its range of motion on a rack, E. By means of this lever the table B can be conveniently raised and lowered, as required. The overhanging portion or bracket-arm of the **C**-shaped frame terminates in a head, F, which forms a bearing for the arbor G, which is provided with a pulley for driving it.

In the example shown the arbor G consists, in part, of a split tube, I, adapted to receive and frictionally grasp the upper end of the spindle H of the cutting-tool, so that it may drive the same. The tool-spindle H has a collar, *h*, to form an abutment for the rings or washers K, against which the cutters L are seated, and held there by means of a nut, M. The tool-spindle H is extended beyond the screw-threaded portion which receives nut M, and this extension H′ may enter a sleeve-bearing, N, fitted in a box, O, in the table B. The box O has a cavity in its upper side, to allow the nut M to sink below the surface of the table B; and the sleeve-bearing N can be vertically adjusted in box O to accommodate itself to the relative positions of table B and extension H′ of tool-spindle H. The sleeve-bearing may be secured by a set-screw, *n*, as shown, or in any other suitable manner admitting of its withdrawal through the bottom of box O. It will be observed that on drawing the bearing N off the extension H′ of the tool-spindle, the latter, with its cutters, can be readily detached from arbor G and from the machine and another tool substituted.

In case the arbor is arranged under the table projecting through an opening therein from beneath, the extension of the tool-spindle will be supported in a bearing in the bracket-arm or other support overhanging the table.

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

1. In a machine for molding and carving wood, the combination, substantially as specified, of the driving-arbor, the spindle of the removable cutting-tool, and the bearing which supports the extended end of the tool-spindle, whose other end is secured to the driving-arbor.

2. In a machine for molding and carving

wood, the combination, substantially as specified, of the extension of the cutter-spindle, the socketed box in the table, and the bearing fitted in said box.

3. In a machine for molding and carving wood, the combination, substantially as specified, of the extension of the cutter-spindle, the socketed box in the table, and the adjustable and removable bearing fitted in said box.

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Witnesses:
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