J. H. BURNSHOW.

Tool for Making Rosettes from Wood.

No. 209,012. Patented Oct. 15, 1878.

FIG. I.

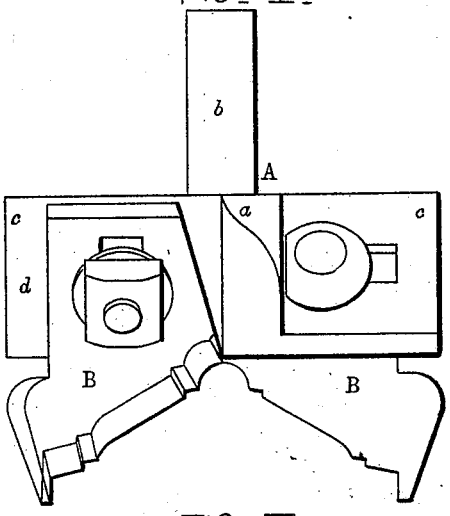


FIG. II.

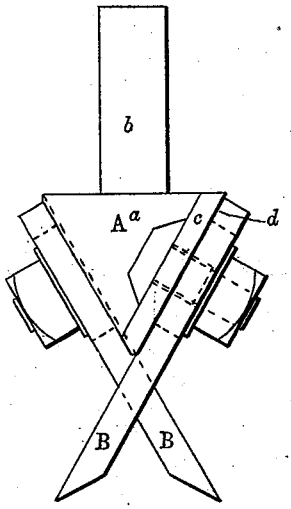
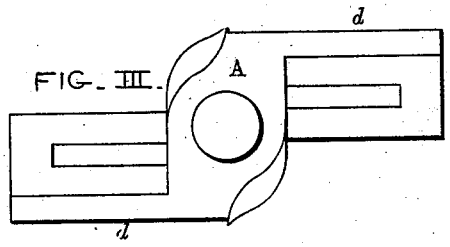


FIG. III.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES H. BURNSHOW, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN TOOLS FOR MAKING ROSETTES FROM WOOD.

Specification forming part of Letters Patent No. **209,012**, dated October 15, 1878; application filed March 29, 1878.

To all whom it may concern:

Be it known that I, JAMES H. BURNSHOW, of the city of Baltimore and State of Maryland, have invented certain Improvements in Tools for Making Rosettes from Wood, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

This invention relates to certain improvements in an adjustable tool adapted for attachment in the usual manner to the revoluble spindle of a machine for the above-named purpose; and it consists, first, in a novel construction of the cutter-head or that portion of the tool to which cutters or knives are adjustably secured; and, secondly, in combining with the said cutter-head a pair of cutters or knives, which may be adjusted to cut rosettes of various sizes and shapes without alteration of their cutting-edges.

In the description of the invention which follows reference is made to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is an exterior side view of the improved tool. Fig. 2 is an edge view of the same. Fig. 3 is a top view of the cutter-head forming a part of the invention.

Similar letters of reference indicate similar parts in all the views.

The cutter-head, which is represented by A, consists of a hub or block, *a*, having a central pin, *b*, adapted to fit the socket of the driving-spindle, and angular slotted wings *c c*, extending laterally from the said block, to which the cutters, hereinafter described, are secured. The faces of the wings *c* are at a common angle (preferably thirty degrees) with reference to the axis of the pin *b*, and are set in reverse positions. The said faces, which are represented by *d*, extend from the outer end of the wings to the center of the device, at which point the hub or block projects slightly to form an offset and a guide for setting the first one of the cutters to be adjusted. The cutters B B consist of steel plates, slotted in a direction opposite to that of the slots in the wings, having their lower edges of some ornamental outline and sharpened. The cutters are secured to the wings by means of screw-bolts and nuts. The slots in the wings and cutters, extending in opposite directions, as described, allow of the cutters being extended or constructed either laterally or vertically. They also admit of the cutters being placed in a variety of irregular positions, whereby the contour as well as the diameter of the rosette may be altered.

In adjusting the tool to cut a rosette of a desired diameter and shape, one of the cutters is first set, and the revolving tool brought into contact with and forced into a piece of wood, after which the other cutter is adjusted by being brought into contact with the rosette. This independent adjustment of the cutters insures in all cases two cutting-edges, and prevents injury to the temper of the cutters from friction, as is the case when one cutter is inoperative and merely bears upon the surface of the wood.

Having thus described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. The cutter-head A, consisting of the pin *b* and hub *a*, having the slotted wings *c c*, extending laterally from said hub and set in reverse angular positions with reference to the axis of the device, substantially as herein shown and described.

2. The cutter-head A, consisting of the pin *b* and hub *a*, having the slotted wings *c*, extending laterally from said hub and set in reverse angular position with reference to the axis of the device, combined with the slotted cutters B, substantially as specified.

In testimony whereof I have hereunto subscribed my name this 27th day of March, in the year of our Lord 1878.

JAMES H. BURNSHOW.

Witnesses:

WM. T. HOWARD,

JNO. T. MADDOX.