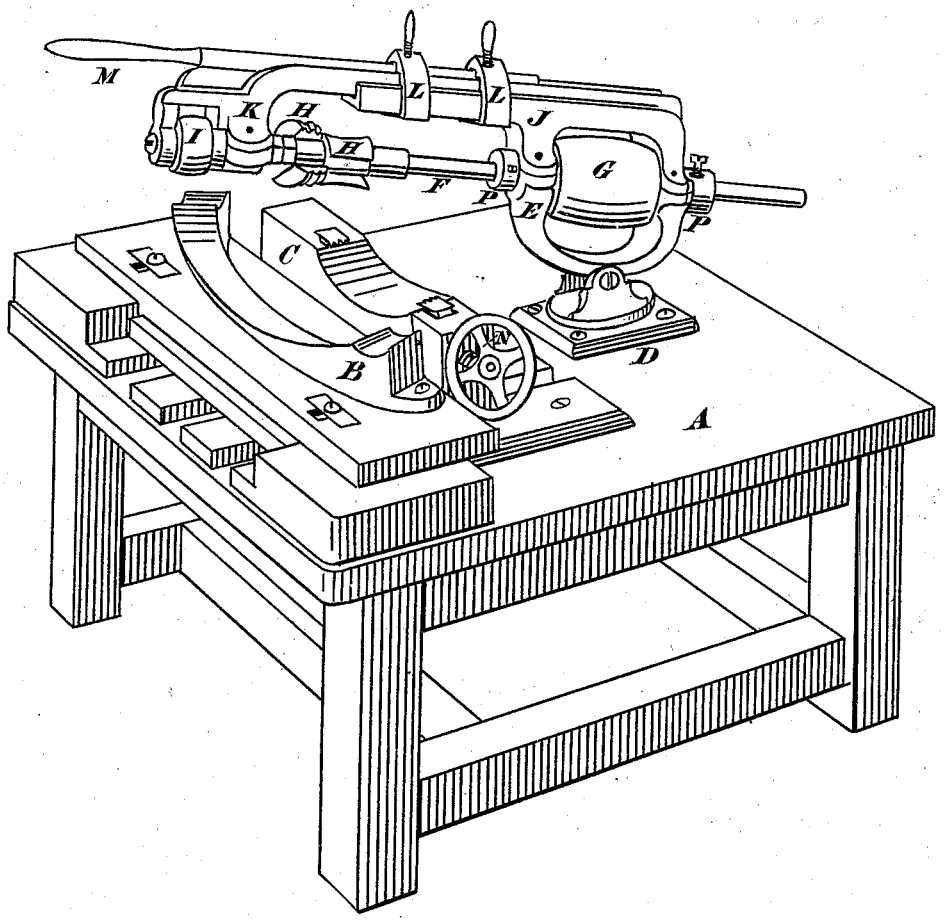
H. BUCHTER.

Machine for Shaping Chair-Backs.

No. 166,184. Patented Aug. 3, 1875.



WITNESSES.

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HENRY BUCHTER, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN MACHINES FOR SHAPING CHAIR-BACKS.

Specification forming part of Letters Patent No. **166,184**, dated August 3, 1875; application filed April 6, 1875.

To all whom it may concern:

Be it known that I, HENRY BUCHTER, of the city of Louisville, in the county of Jefferson and State of Kentucky, have invented a certain new and useful Improvement in Machines for Shaping and Forming Chair-Backs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing is a perspective view of the device, showing the general construction of the machine and table on which it is used.

The invention relates to an improvement in machines for forming chair backs, tops, and similar articles of circular work, the object being to facilitate production and reduce the cost of such articles, and to enable the employer to use comparatively unskilled labor in its operation, instead of that which is more costly and difficult to procure; and the nature of the invention consists in the combination of the devices employed, as hereinafter more fully set forth.

This machine will be found more fully illustrated in the drawing, in which A is the table, made of wood, and in any suitable form. B is the raised curveway, on which the roller I works, and by means of which form is given to the article operated on by the cutters H H.

This curved way may be made of either wood or iron, but requires to be changed to suit the different kinds of work to be executed.

C is a platform or rest on which the article to be formed is placed, and is secured thereto by means of the set-screw N at the side. D is the base-plate and lower jaws of the universal joint, made of metal, and secured loosely to the table, as shown in the drawing, but in such a manner as to turn easily in the table while operating the machine. E is the upper part of the universal joint, which also constitutes the bearings of the cutter-spindle. F is the cutter-spindle, made of steel and provided with the driving-pulley G, and loose collars P P, all of which are fastened with set-screws so as to be adjustable, while the cutters H H are also secured to the spindle in like manner, so as to be easily removed in changing or repairing them; and in order to hold these cutters firm so as to prevent jarring, the end of the spindle is made to work in a bearing in the slide part of the frame J, as close up to them as possible. I is a guide-roller, working on a small spindle on the end of the slide K.

This roller is intended as a guide to give shape to the article formed, by keeping it down on the curved way B, in operating the machine.

J is the frame of the machine, and K is the adjustable slide therein, made of metal, and in form as shown in the drawing and connected with the plate E of the universal joint at the spindle-bearings, and thereby constitutes the caps thereof. L L are clamps or stirrups for holding the adjustable slide K in position when set. This slide is used for regulating the length of the machine, and consequently the size of the circles also. M is a hand-lever for operating the machine, which only requires the operator to turn it so as to cause the cutters to pass over the article intended to be formed, taking care at the same time that the roller I is at all times kept down on the curved way B by means of the peculiar shape of which form is given to the article operated upon.

I hereby disclaim the invention covered by reissued Letters Patent numbered 6,312 dated March 2, 1875.

Having thus fully described the nature and object of this my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the adjustable tool-spindle F, roller I, rest C, and removable and adjustable guideway B, constructed, arranged, and operating substantially as and for the purpose described.

2. The combination of the swivel frame E, frame J, and adjustable frame K with the tool-spindle F, constructed and arranged substantially as shown.

HENRY BUCHTER.

Witnesses:
FRANK PARDON,
FRED ULRICH.