(No Model.)

C. P. SEYMOUR.

APPARATUS FOR TURNING ORNAMENTAL FORMS AND FIGURES IN WOOD.

No. 342,394. Patented May 25, 1886.

Fig. 1.

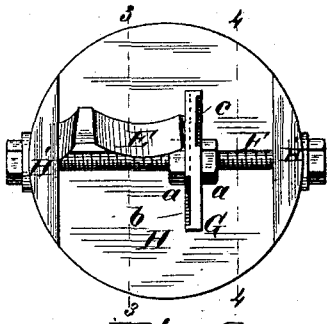


Fig. 2.

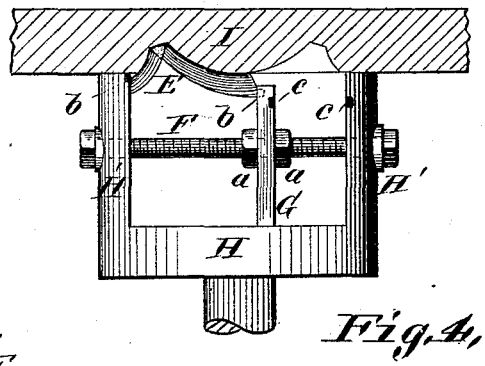


Fig. 3.

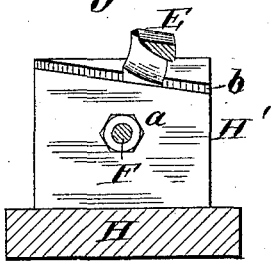


Fig. 4.

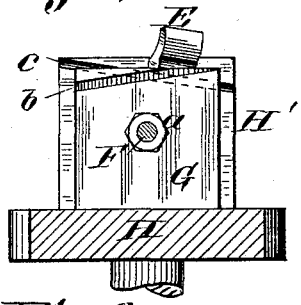


Fig. 5.

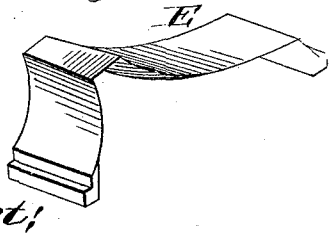
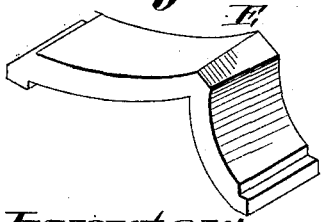


Fig. 6.



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UNITED STATES PATENT OFFICE.

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APPARATUS FOR TURNING ORNAMENTAL FORMS AND FIGURES IN WOOD.

SPECIFICATION forming part of Letters Patent No. 342,394, dated May 25, 1886.

Application filed April 27, 1885. Serial No. 163,661. (No model.)

To all whom it may concern:

Be it known that I, CALEB P. SEYMOUR, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Apparatuses for Turning Ornamental Forms and Figures in Wood, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is an end view of a cutter and head embodying my invention. Fig. 2 is an elevation of same. Fig. 3 is a longitudinal section through the head and knife or cutter taken on line 3 3, Fig. 1. Fig. 4 is a similar view through the head taken on line 4 4, Fig. 1. Figs. 5 and 6 are enlarged perspective views of the knife or cutter, showing it in different positions.

My invention relates to certain improvements in devices or apparatuses for turning ornamental forms and figures in wood; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Heretofore in the formation of annular beading and ornaments in finish, the stuff upon which the design was to be cut or turned was centered between the heads of an ordinary turning-lathe and set in motion, the operator adjusting his tool on the tool-holder and alternating one tool for another, according to the design he wanted to turn. This required the services of a skilled workman, but even then irregularities in the work often resulted in respect to form, depth, and outline, which are entirely obviated by the present device, as, instead of revolving, the stuff is stationary when under the operation of being traversed by the cutters, (although not necessarily so,) and when the required form and outline are attained the tops of the side walls or flanges of the cutter-head impinge upon the material being worked, thus arresting further action of the cutters upon the wood, and uniformity is secured.

Referring to the drawings, H represents the base or body of the cutter-head, suitably secured to a spindle or shaft, and having walls or flanges H′, connected about midway of their length by a screw-threaded bolt or rod, F, and which is held in a disk, G, between nuts *a*. By turning the nuts in either direction the disk can be adjusted to any desired position. Each side of this disk is provided with an inclined groove, *b c*, (see Fig. 4,) in which fits one end of the knife or cutter E, the other end of the knife or cutter fitting in a similar groove, *b c*, in one of the walls H of the head. (See Fig. 3.) When the knife is put in place in the grooves, it can be securely fastened there by turning the nuts *a* and adjusting the disk G toward the flange or wall of the head holding the other end of the knife or cutter.

By making the grooves *b c* inclined the knives or cutters can be moved inward or outward relative to the body of the head by adjusting them in the grooves.

The knives or cutters may be of any desired shape or form to produce the desired result or effect.

I, Fig. 2, represents a piece of wood being worked upon by my improved cutter, a circular cut being therein illustrated.

I claim as my invention—

1. A cutter-head having grooved walls or flanges, in combination with a grooved disk, a rod supporting said disk between the walls, and a knife or cutter fitting and held in the grooves of the walls and disk, substantially as set forth.

2. A cutter-head having walls provided with inclined grooves, in combination with a disk having inclined grooves, a rod supporting said disk between the walls, and a knife or cutter held in said grooves, substantially as set forth.

3. A cutter-head having grooved walls or flanges, in combination with a screw-threaded rod passing through said walls, a grooved disk on the rod, and a cutter held in said grooves, substantially as set forth.

4. A cutter-head having grooved walls, screw-threaded connecting-rod, grooved disk on said rod, nuts on the rod each side of the disk for adjusting and holding it in place, and a cutter or knife fitting in the grooves in the walls and disk and held therein, substantially as shown and described.

Witness my hand this 21st day of April, 1885.

CALEB P. SEYMOUR.

Witnesses:

EDWARD J. O'BRIEN,

HERMAN A. HAENSSLER.