

(No Model.)

E. S. JUDKINS.
CUTTER HEAD.

No. 487,015.

Patented Nov. 29, 1892.

Fig. 1.

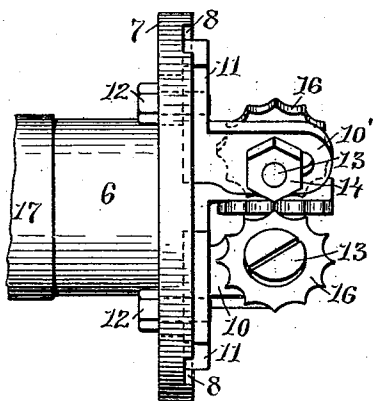


Fig. 2.

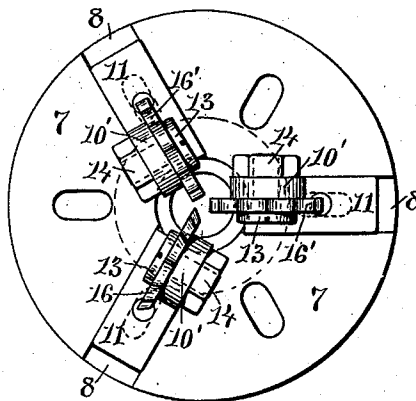


Fig. 3.

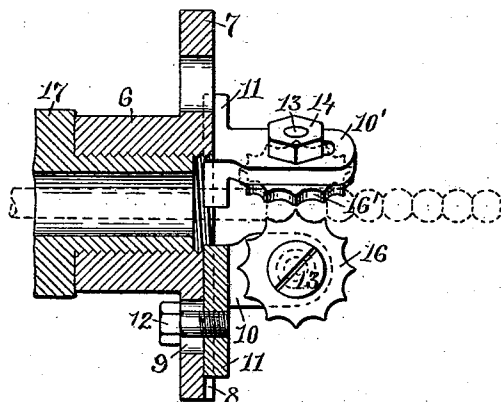


Fig. 4.

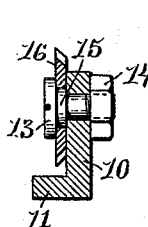
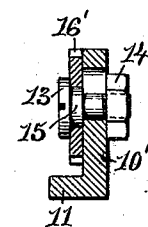


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD S. JUDKINS, OF EAST PROVIDENCE, RHODE ISLAND.

CUTTER-HEAD.

SPECIFICATION forming part of Letters Patent No. 487,015, dated November 29, 1892.

Application filed December 16, 1891. Serial No. 415,252. (No model.)

To all whom it may concern:

Be it known that I, EDWARD S. JUDKINS, of East Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Cutter-Heads; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in revolving cutter-heads.

The object of the invention is to produce a cutter-head by which strips of any length may be turned in irregular forms.

The invention consists in the peculiar construction of the adjustable cutters and guides and their novel combination with a centrally-perforated cutter-head or equivalent device for supporting said cutters and guides, as will be more fully described hereinafter, and pointed out in the claim.

Figure 1 represents a view of the revolvable head and the cutters secured thereto. Fig. 2 represents an end view of the same. Fig. 3 represents a longitudinal sectional view of the cutter-head, showing the rotatable cutter and the guide-disk and indicating their operation. Fig. 4 represents a vertical sectional view through one of the rotating cutters and its adjustable support. Fig. 5 represents a vertical sectional view of one of the slotted supports to which one of the guide-wheels is adjustably secured.

Similar numbers of reference designate corresponding parts throughout.

In the drawings, 6 indicates a metal sleeve screw-threaded on its interior surface and having the outwardly-extending flange 7, forming a face-plate in the surface of which are formed the radially-extending guides 8 8, each of which is provided with a slotted opening 9, extending through the remaining thickness of said flange 7. The standards or supports 10 and 10' have bases 11 11, which are adapted to slide in the guides or grooves 8 8, and which are secured in place by headed bolts 12 12, extending through the slotted openings 9 9 and engaging in threaded per-

forations or sockets formed in said bases, 50 while the upper ends of said standards 10 and 10' are perforated to allow the bolts 13 13, forming shafts, to pass through the thickness of the standards and to be secured by the nuts 14 14. These perforations may be circular, as shown in Fig. 4, the diameter being but slightly greater than that of the bolts; or they may be formed as slots (indicated in Fig. 5) to allow for adjustment of the bolts 13 13 with relation to the surface of the face-plate. Each of the bolts 13 is provided with a circumferential shoulder 15 of larger diameter than the perforations in the standards 10 or 10', and forming bearings for the rotatable disks 16 and 16', in the edges of which patterns 65 are cut corresponding to the proposed shape of the finished material. The pattern-edges of one or more of these disks may be sharpened to form cutters, the remaining disks forming rotatable guides between which and the cutting-disks the material is held from lateral movement while allowing said material to be advanced between said guides and cutters as they are revolved.

It is obvious that any number of cutting-disks may be used, some of which serve as guide-disks, or that the pattern-edges of one or more disks may be left unsharpened to serve as such guide-disks. The cutters shown in the drawings have pattern-edges adapted to form a round beaded molding; but this pattern may be varied by the adjustment of the cutting-disks on the standards 10' or by replacing the cutters shown by others having a different pattern-edge. By moving the bases 11 outward from the center of the face-plate a larger piece of material can be passed through between the cutters and guides.

This improved cutter-head is adapted for use in cutting either wood or metal by the use of disks having suitable cutting-edges.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with the sleeve 6, having the face-plate 7, and the guides 8 8, formed in the surface thereof and provided with the slot-

ted openings 9, of the standards 10 and 10',
carried on the bases 11 11, movable in said
guides and secured therein by the bolts 12,
rotatable cutters journaled on shafts secured
5 to said standards 10 and rotatable guides
journaled on shafts adjustably secured in
slots provided in said standards 10', and

means for revolving said sleeve, for the purpose described.

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