

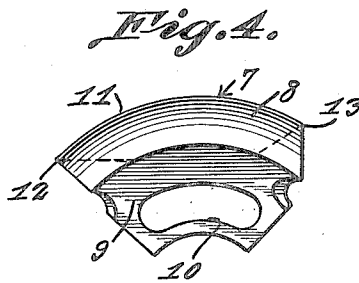
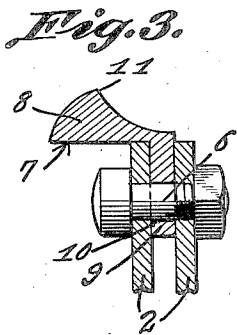
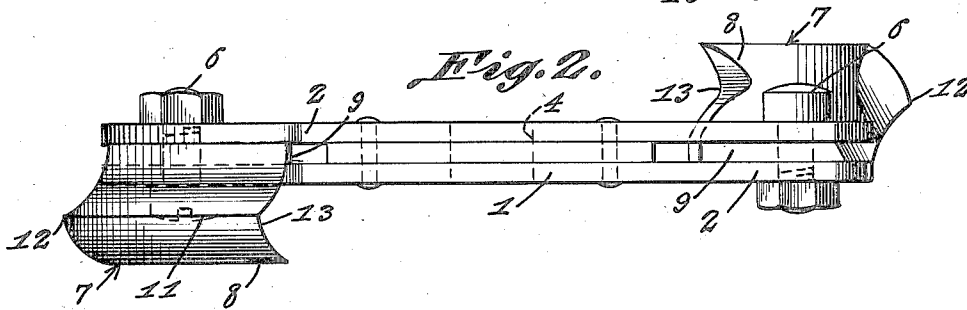
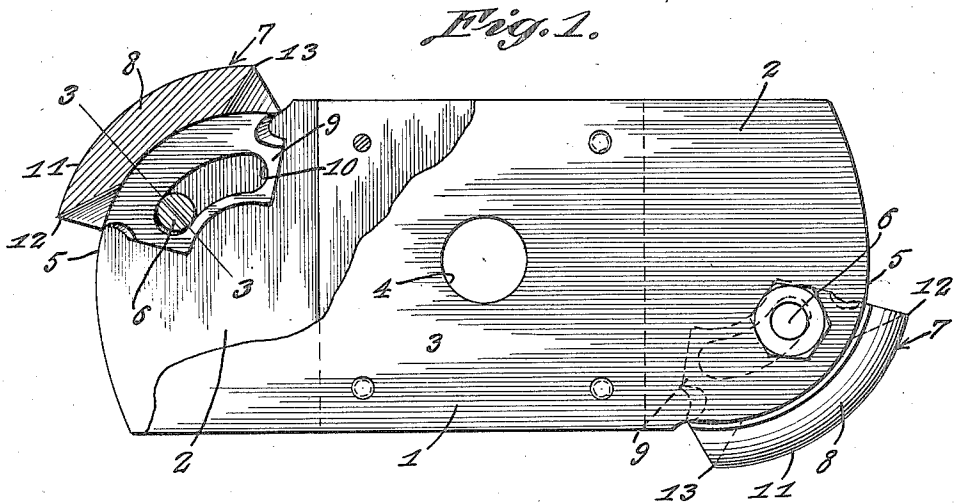
March 31, 1936.

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2,036,145

WOOD CUTTING HEAD WITH INSERTED CUTTERS

Filed Dec. 26, 1934



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UNITED STATES PATENT OFFICE

2,036,145

WOOD CUTTING HEAD WITH INSERTED CUTTERS

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Application December 26, 1934, Serial No. 759,251

2 Claims. (Cl. 144—234)

This invention relates to rotary wood cutters especially adapted for cutting moldings and the like from wood stock and has for the primary object the provision of cutters adjustably and removably secured to a rotatable head whereby one-half of a molding will be formed by each cutter, the latter being constructed to cut either across or with the grain.

Another object of this invention is the provision of a novel mounting for the cutters to the head whereby desired adjustments of the cutters may be readily made to compensate for wear and which will permit the cutters to be easily removed and replaced on the head so that either cutting end of the cutters may be brought into a working position and also will obviate the possibility of the cutters becoming accidentally detached from the head or accidentally moved out of adjustment during the use of the device.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a side elevation, partly in section, illustrating a rotary wood cutter constructed in accordance with my invention.

Figure 2 is a plan view illustrating the same.

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a side elevation illustrating one of the cutters.

Referring in detail to the drawing, the numeral 1 indicates a rotatable head including end portions 2 and an intermediate portion 3. The portion 3 has a centrally arranged opening 4 for the reception of a mandrel or shaft to impart rotation to the head. The end portions 2 are provided with curved edges to form arcuate shaped seats 5, said seats being arranged diagonally to each other with respect to the head. The end portions are slotted inwardly from their curved edges to provide bifurcated portions, as clearly shown in Figure 2, and said end portions are further provided with aligned openings to receive securing bolts 6 employed for removably connecting to the head and in engagement with the seats thereof cutters 7. The cutters each include an arcuate shaped body 8, the inner concave face of which is adapted to engage with the seat 5 of the head. Integral with the body 8 and extending at right angles thereto is a substantially segmental-

shaped plate 9 received in the bifurcation of the end portion of the head and is provided with an arcuate-shaped slot 10 through which the bolt 6 extends. The nut of the bolt when threaded on the latter draws the bifurcated end portion of the head tightly against the plate for holding the cutter in a selected adjusted or working position on the seat 5. The bolt extending through the slot 10 will prevent the cutter from becoming accidentally disconnected from the head during the use of the device.

The outer face 11 of the body 8 is shaped to form a desired design of molding in the wood stock and one end of said body has a cutting edge 12 and the other end has a cutting edge 13. The end of the body having the cutting edge 12 is beveled inwardly and rearwardly with respect to the direction of rotation of the cutter and said cutting edge 12 for cutting with the grain of the stock. The other end of the body 8 or the end having the cutting edge 13 is beveled inwardly and forwardly with respect to the direction of rotation or with respect to said cutting edge 13 for cutting across the grain of the wood stock.

The cutters are manufactured in rights and lefts to be used at opposite sides of the head with either cutting edge 12 or 13 presented in working position. The cutters being located or assembled to the head at opposite sides of the latter, as shown in Figure 2, each cutter will form one-half of the molding in the wood stock and as wear occurs to a cutting edge of the cutters they may be advanced along the seats 5 into working position. Having described the invention, I claim:

1. A rotary cutter comprising a head having a curved seat, a cutter including an arcuately curved body having its concave face in engagement with the seat and its convex face shaped to form a desired design in a wood stock, cutting edges at opposite ends of said body, one end of said body being beveled from the respective cutting edge inwardly and rearwardly with respect to the direction of rotation of the cutter and the opposite end of said body being beveled inwardly and forwardly from the respective cutting edge and in respect to the direction of rotation of the cutter.

2. A rotatable wood cutter comprising an elongated head including an intermediate portion having a centrally arranged opening to receive a rotatable mandrel and end portions each bifurcated inwardly from its end and curved with the curvature extending into the end edge and one side edge thereof to provide a seat, the seats of said end portions being diagonally arranged to

each other, cutter elements each including an arcuately curved body having the concaved face thereof abutting a seat, attaching flanges formed on the bodies and extending at right angles there-
5 to and received in the bifurcations of the end portions and provided with arcuately curved slots, fasteners extending through the slots and end

portions to adjustably and detachably secure the cutter elements thereto, said cutter elements having cutting edges at the ends thereof either of which may be brought into working position by reversing the cutter elements on the seats. 5

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