

No. 811,682.

PATENTED FEB. 6, 1906.

E. WISMAR.
CUTTER HEAD FOR WOOD SHAPERS.
APPLICATION FILED DEC. 19, 1904.

Fig. 1

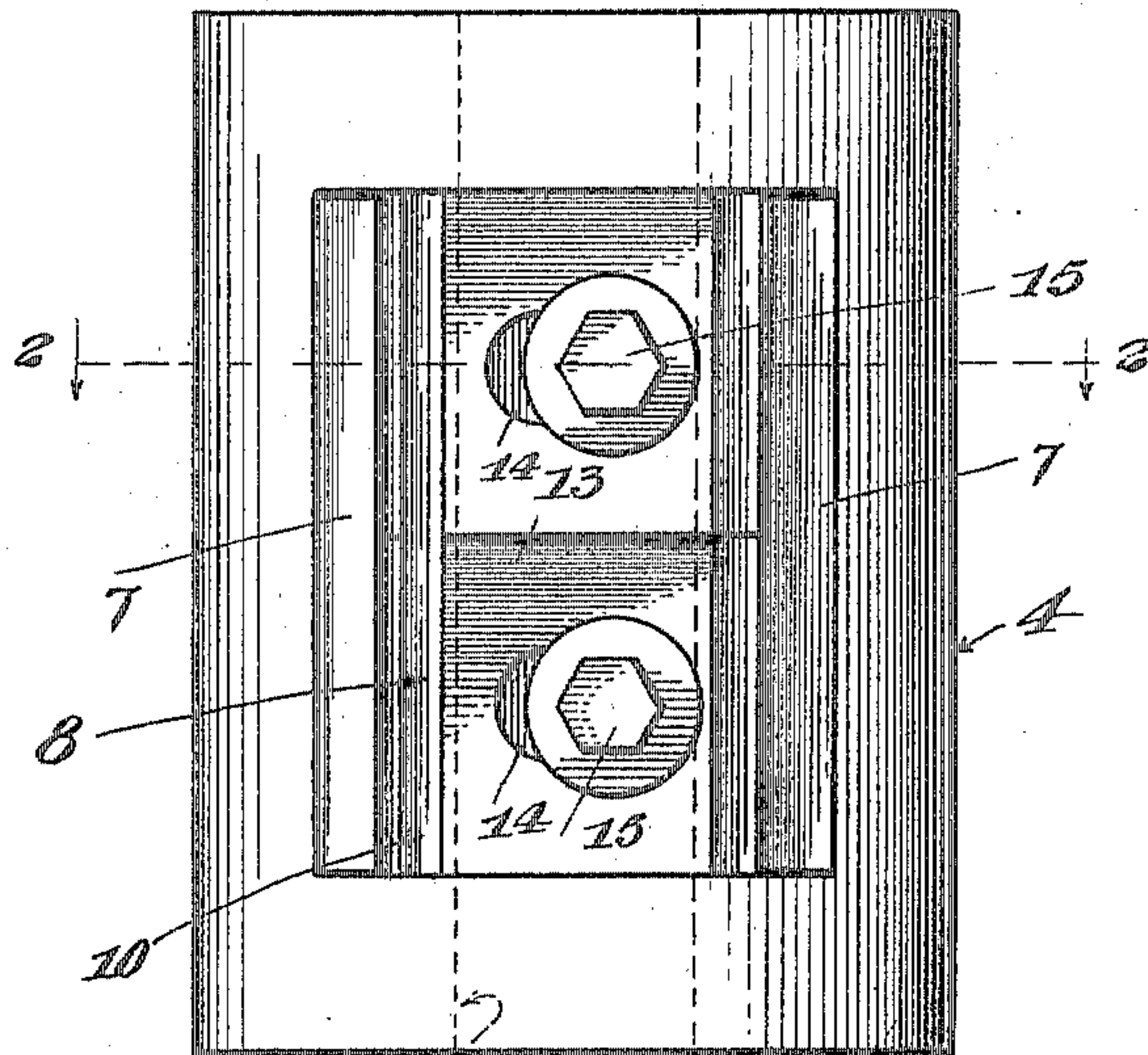


Fig. 2

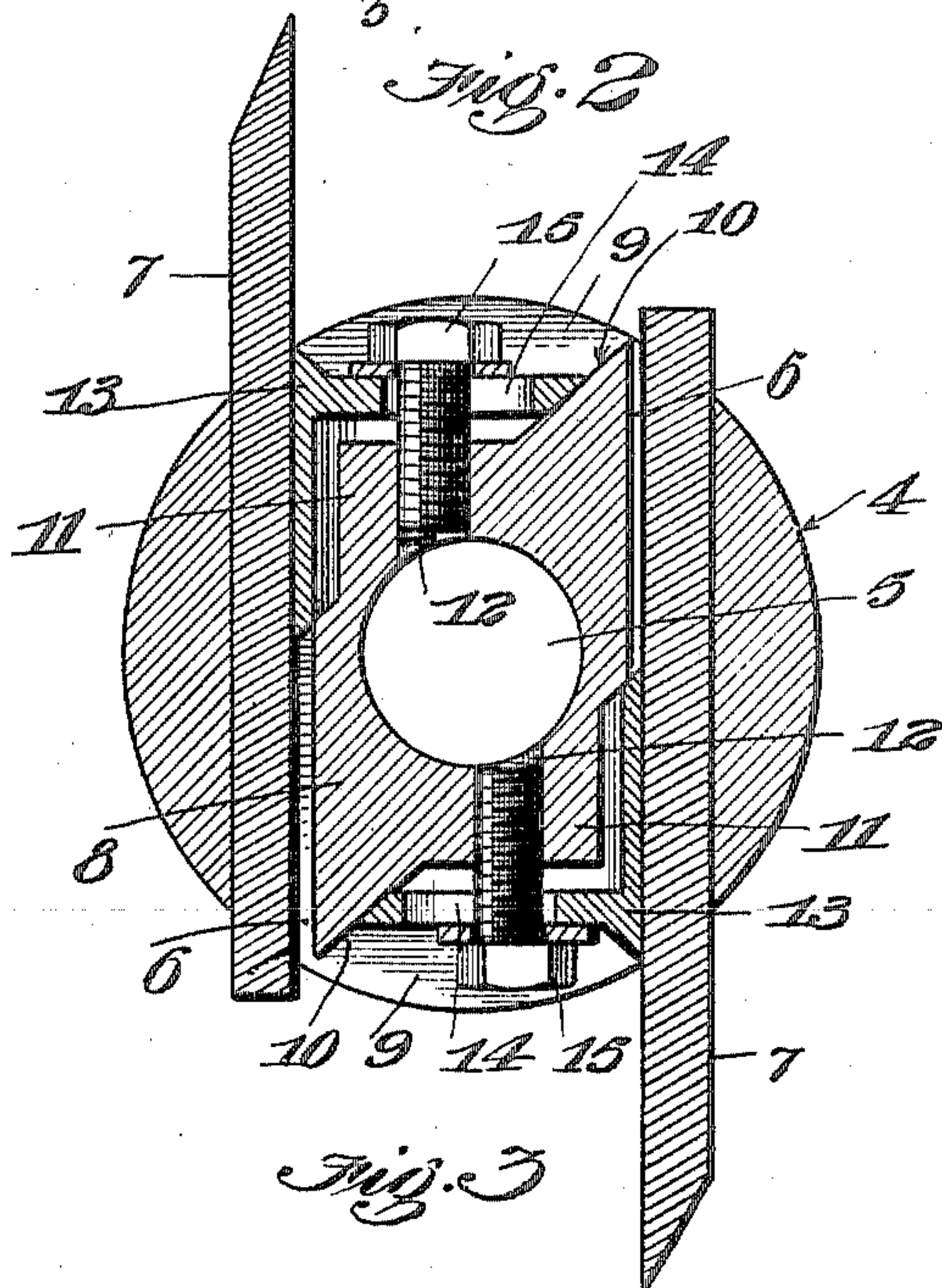
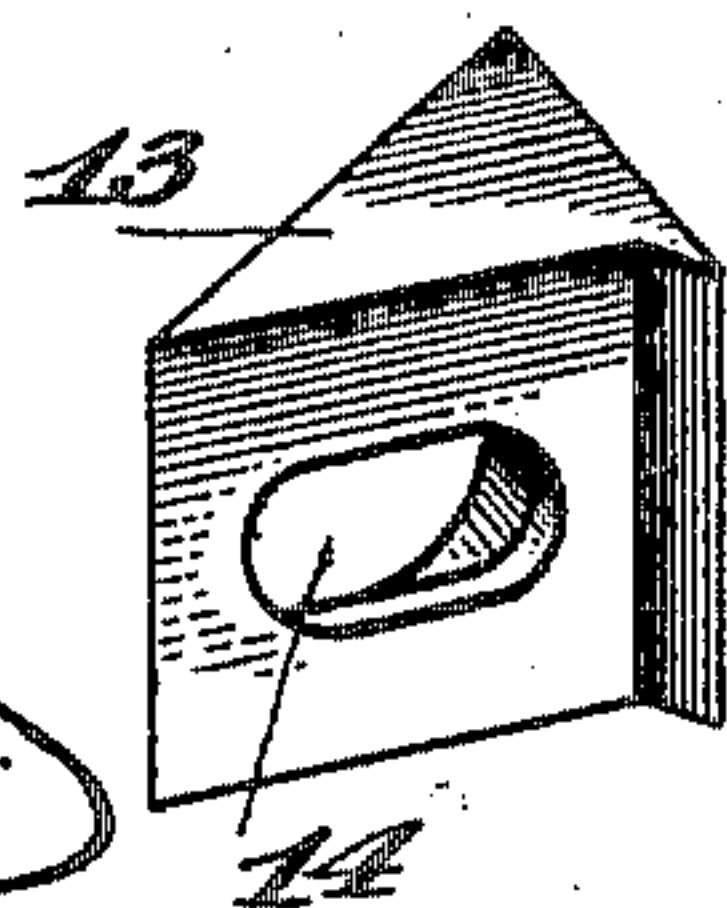


Fig. 3



Witnesses
Emmanuel A. Strauss
Margaret B. Nickerson

Inventor
Emil Wismar
by Hazard & Hazard
Attorneys

UNITED STATES PATENT OFFICE.

EMIL WISMAR, OF LOS ANGELES, CALIFORNIA.

CUTTER-HEAD FOR WOOD-SHAPERS.

No. 811,682.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed December 19, 1904. Serial No. 237,574.

To all whom it may concern:

Be it known that I, EMIL WISMAR, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Cutter-Heads for Wood-Shapers, of which the following is a specification.

The object of my invention is to provide a cutter-head simple in construction and reliable in operation having few parts and in which cutter-knives of different thicknesses and widths can be adjusted and securely fastened and in which sticker-knives with or without slots can be placed. I accomplish these objects by means of the mechanism described herein and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of my shaper-head removed from the shaper, showing the knives in place therein. Fig. 2 is a transverse section taken on line 2 2 of Fig. 1. Fig. 3 is a perspective view of the adjustable knife-clamp removed from the shaper-head.

In the drawings, 4 is a solid cylindrical shaper-collar, having a central bore 5 there-through for the reception of the spindle of the shaper. (Not shown.) Extending transversely through this shaper-collar and on opposite sides of the central bore 5 are vertical rectangular slots 6 for the reception of the cutter-knives 7. The central body portion 8 of the collar is recessed at opposite sides, as shown at 9, and has parallel angular faces 10. On these faces and preferably integral therewith are lugs 11, which are drilled and screw-

threaded, as at 12. Over these lugs are placed the adjustable knife-clamps 13, preferably made in two or more parts, so as to be more readily adjustable and to also accommodate themselves to any thickness or unevenness of the metal in the cutter-knife. These adjustable cutter-knife clamps are recessed on their inner side and are wedge-shaped exteriorly and slotted, as at 14, so as to permit of their adjustment to knives of various thicknesses. These knife-clamps are adjustably held in place by cap-screws 15.

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

A cutter-head for wood-shapers comprising a cylinder counterbored through the center and having a slot on each side of the bore parallel therewith and extending entirely through the head, cutters inserted in said slots, the cylinder recessed on opposite sides leaving diagonally-disposed faces and integral screw-threaded lugs, adjustable cutter-knife clamps recessed on their inner sides and wedge-shaped exteriorly and provided with elongated slots 14, and screws extending through said slots into the screw-threaded holes in the lugs for forcing the clamps against the cutter-knives.

In witness that I claim the foregoing I have hereunto subscribed my name this 12th day of December, 1904.

EMIL WISMAR.

Witnesses:

HENRY T. HAZARD,
G. E. HARPHAM.