

(No Model.)

B. A. WHITSETT.
TENON AND TURNING CHUCK.

No. 271,753.

Patented Feb. 6, 1883.

Fig. 1.

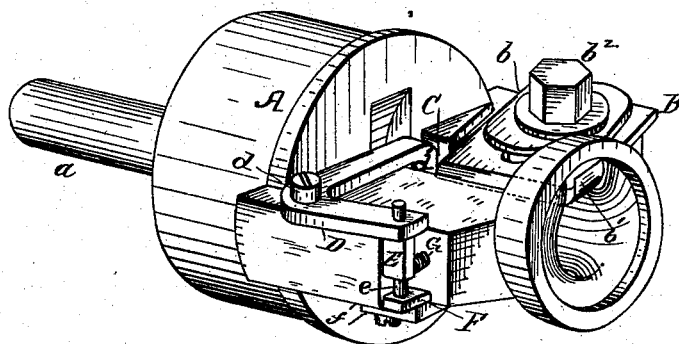


Fig. 2.

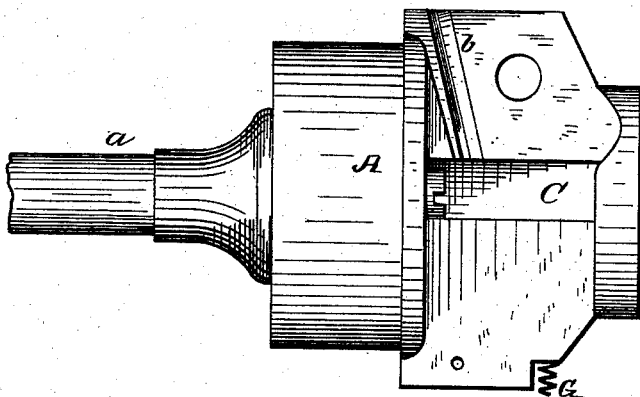


Fig. 4.

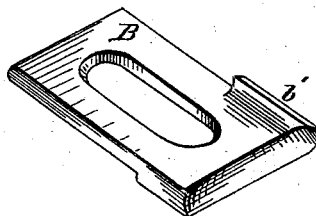


Fig. 3.

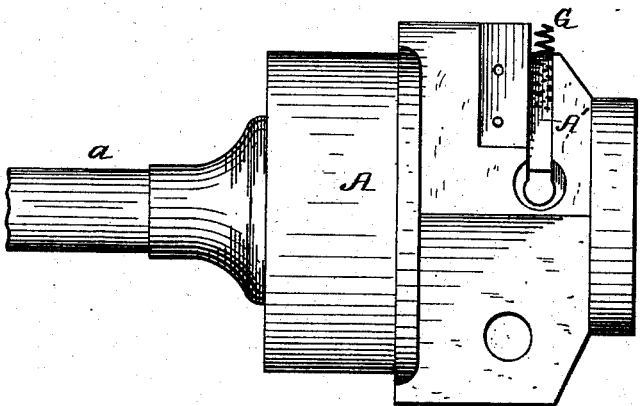
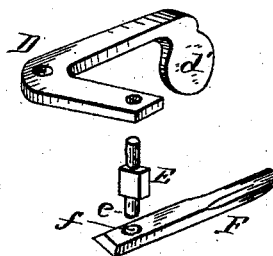


Fig. 5.



Witnesses:
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by his atty R. Nottingham

UNITED STATES PATENT OFFICE.

BARTON A. WHITSETT, OF LEBANON, INDIANA.

TENON AND TURNING CHUCK.

SPECIFICATION forming part of Letters Patent No. 271,753, dated February 6, 1883.

Application filed May 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, BARTON A. WHITSETT, a citizen of the United States, residing at Lebanon, in the county of Boone and State of Indiana, have invented certain new and useful Improvements in Tenon and Turning Chucks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to an implement for tenoning or ornamenting chair-rounds or other articles, and adapted for service upon the mandrel of a turning-lathe or the like; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

The object of the invention is to form a round tenon upon a chair-round, and at the same time form an annular groove upon the tenon, or to form ornamental molding upon different articles by adjustable gages, chisels, or knives; and to this effect the invention consists essentially in an elbow-lever pivoted to the main frame, one end of which is provided with a plate adapted to operate in the tenon-forming chamber, and the other with an arm to which is adjustably secured a gouge or chisel, said chisel being forced inward into operative contact with the tenon or the like by the pressure of the blank through the lever, the constant force of a spring holding the said tool out of contact when the pressure is released. The depth of the annular groove or grooves may thus be readily made to suit the desires of the operator at will, both by the manipulation of the blank and the adjustability of the tools. An adjustable chisel with inclined and rounded edge forms the round tenon and occupies one side of the tenon-chamber, and the gouge or chisel approaches from the opposite side and occupies the opposite side of the said chamber.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective; Fig. 2, top plan view; Fig. 3, a bottom plan view; and Figs. 4 and 5 are details. Referring to the drawings, A represents the

main frame or block, having spindle or shank *a* for connection to the revolving mandrel of a lathe, and having an inclined guideway, *b*, for the reception of a slotted cutter, B, having rounded edge *b'*, and secured to the frame A by a set-screw, *b²*, allowing it to be adjusted at will. The edge of the cutter B is adapted to operate in the chamber C, in which the blank is forced.

Pivoted at *d* to the frame A is an elbow-lever, D, having a plate, *d'*, upon one extremity, which is located in the chamber C when the device is in operation, and having loosely secured to the other end an arm, E, the lower end, *e*, of which operates in a slot, *f*, in an adjustable removable and interchangeable tool, F, which operates in guides A' in the frame A, and is held in such guides by a screw-cap, *f'*, as shown. A spring, G, exerts a constant force against the arm E to hold the tool F out of operation, and said tool is thus inactive until the force of the spring is overcome through the pivoted elbow-lever D, operated by the tenon against the plate *d'*.

Arrangements may be made for two or more tools being secured to the arm E at the same time, and the tool-edges may be of any desired conformation.

The device is peculiarly adapted to form a round tenon upon a chair-round and form an annular groove in such tenon, in which groove the wood fibers of the chair-bar operate to hold the round without glue.

Various modifications in details of construction may be made without departing from the principle or sacrificing the advantages of my invention, the essential elements of which will be readily comprehended by the foregoing description in connection with the drawings.

What I claim as new is—

In a turning and tenoning chuck, the elbow-lever D, having plate *d'*, the arm E, carrying interchangeable tool F, combined with the frame A, the adjustable cutter B, having rounded edge *b'*, and the spring G for holding the tool out of operation when the plate *d'* is not forced backward, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

BARTON A. WHITSETT.

Witnesses:

CHARLES M. HARRISON,
THOMAS J. CASON.