

No. 722,541.

PATENTED MAR. 10, 1903.

C. SEYMOUR.
WABBLE SAW.

APPLICATION FILED NOV. 15, 1902.

NO MODEL.

Fig. 1.

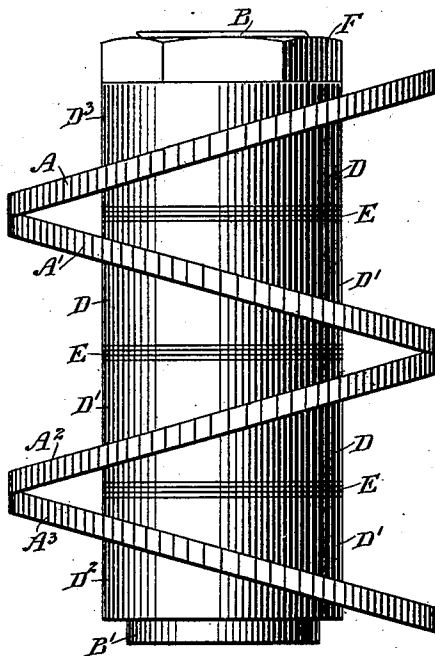


Fig. 2.

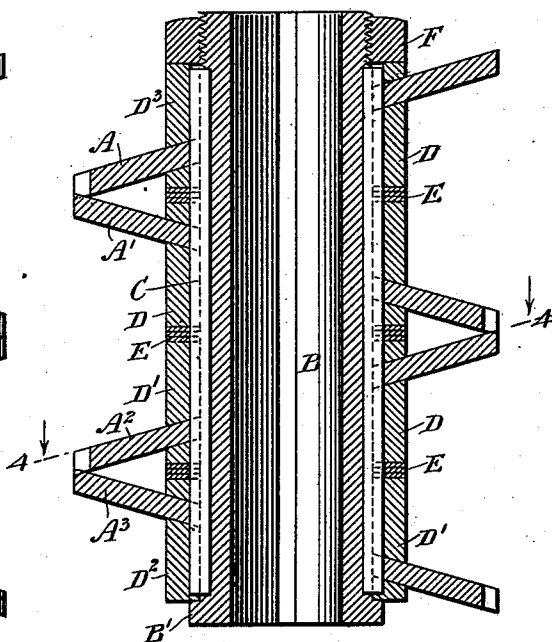
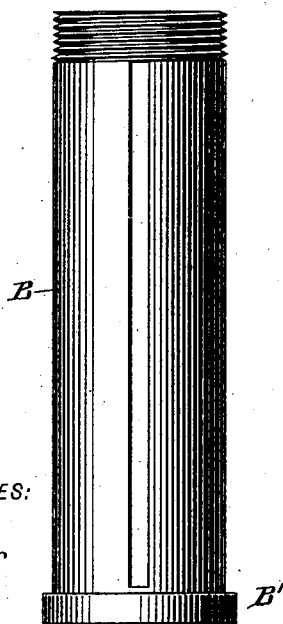


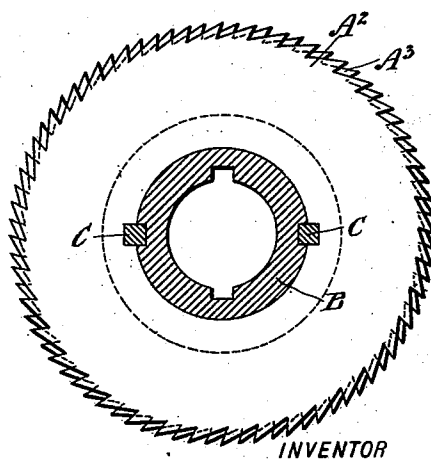
Fig. 3.



WITNESSES:

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Fig. 4.



INVENTOR

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UNITED STATES PATENT OFFICE.

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WABBLE-SAW.

SPECIFICATION forming part of Letters Patent No. 722,541, dated March 10, 1903.

Application filed November 15, 1902. Serial No. 131,560. (No model.)

To all whom it may concern:

Be it known that I, CHARLES SEYMOUR, a citizen of the United States, and a resident of Defiance, in the county of Defiance and State of Ohio, have invented a new and Improved Wabble-Saw, of which the following is a full, clear, and exact description.

The invention relates to wood-sawing devices; and its object is to provide a new and improved wabble-saw arranged to counteract the strain of the saw-blades on the arbor, to prevent undue vibration of the arbor, and to insure easy running of the saw and the formation of a smooth cut.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvement. Fig. 2 is a sectional side elevation of the same. Fig. 3 is a side elevation of the arbor, and Fig. 4 is a sectional plan view of the improvement on the line 4 4 of Fig. 2.

The wabble-saw shown in the drawings consists of saw-blades A, A', A², and A³, mounted on an arbor B and held against rotation thereon by keys C, fitted lengthwise on the arbor, and the said saw-blades are set angularly to the arbor, and spacing-collars D D' and end collars D² D³ are employed to hold the saw-blades in proper position relative one to the other, and suitable ring-shaped spacers E are interposed between each pair of collars D D', as plainly indicated in the drawings. The end collar D² rests on an annular shoulder B', formed on the arbor B, and the other end collar, D³, is engaged by a nut F, screwing on the outer threaded end of the arbor to hold all the parts in position against lengthwise movement on the arbor, it being understood that the collars and spacers are held against rotation on the arbor by the keys C, the same as the saw-blades are held by the keys.

The saw-blades are set at angles to the axis of the arbor and obliquely one to the other,

and the saw-teeth of the nearest points of adjacent saw-blades are in mesh with each other, as plainly indicated in Figs. 1 and 2, so that an uninterrupted cutting-surface is obtained. Now by having adjacent saw-blades standing obliquely one to the other, as described and shown, it is evident that when the wabble-saw is in use then adjacent saw-blades cut toward each other and the strains incident to the cutting of such adjacent saw-blades into the material are likewise toward each other, and thereby counterbalance one the other to prevent undue vibration of the arbor. Thus the saw runs easily and the teeth of the saw-blades produce a smooth cut in the material.

The collars D and D' between each pair of saw-blades are beveled at the edges which contact with the saw-blade faces, and the bevels of such collars extend in opposite directions. The contacting edges of the end collars D² and D³ are similarly beveled to properly fit the outer faces of the saw-blades A³ and A. By the use of the thin spacers E the intermeshing of the saw-teeth of adjacent saw-blades can be regulated to a nicety.

It is understood that I do not limit myself to the number of saw-blades used on a single arbor, as two or more saw-blades may be employed in the manner above described.

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

1. A wabble-saw having a plurality of saw-blades standing obliquely one to the other and having intermeshing teeth, as set forth.

2. A wabble-saw having a series of saw-blades standing obliquely one to the other and having intermeshing teeth at the nearest faces of adjacent saw-blades, as set forth.

3. A wabble-saw comprising an arbor, saw-blades standing obliquely one to the other and held against turning on the arbor, spacing-collars on the arbor, between adjacent saw-blades held against turning on the arbor, the contacting ends of the collars with the faces of adjacent saw-blades being beveled in opposite directions, and spacers between the adjacent edges of the collars held between a pair of adjacent saw-blades, as set forth.

4. A wobble-saw comprising an arbor, saw-
blades standing obliquely one to the other
and held against turning on the arbor, spac-
ing-collars on the arbor, between adjacent
5 saw-blades held against turning on the ar-
bor, the contacting ends of the collars with
the faces of adjacent saw-blades being bev-
eled in opposite directions, spacers between
the adjacent edges of the collars held be-
10 tween a pair of adjacent saw-blades, and a

key on the arbor, engaging keyways on the
saw-blades, the collars and the spacers, as set
forth.

In testimony whereof I have signed my
name to this specification in the presence of 15
two subscribing witnesses.

CHARLES SEYMOUR.

Witnesses:

GEO. W. DEATRICK,

JOS. BAUER.