

No. 812,317.

PATENTED FEB. 13, 1906.

O. C. WYSONG,
WOODWORKING MACHINE.
APPLICATION FILED NOV. 5, 1904.

2 SHEETS—SHEET 1.

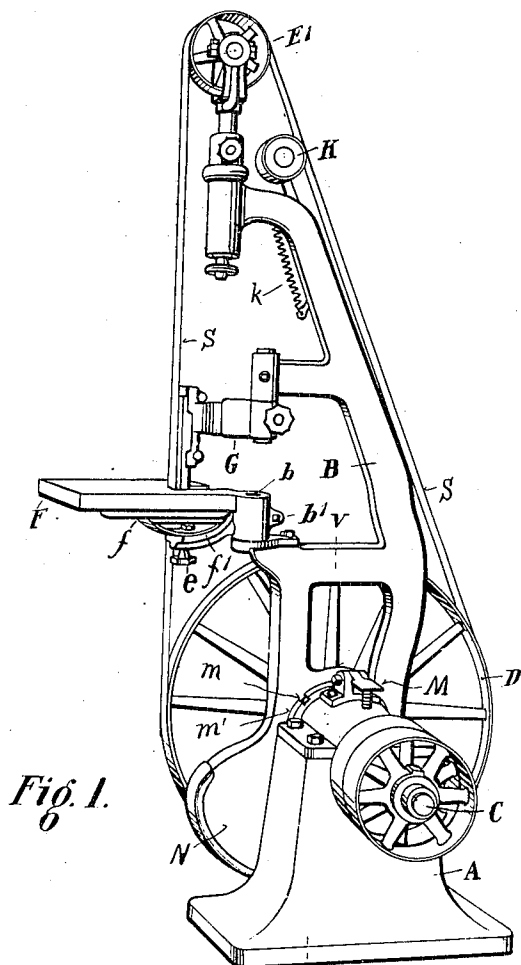


Fig. 1.
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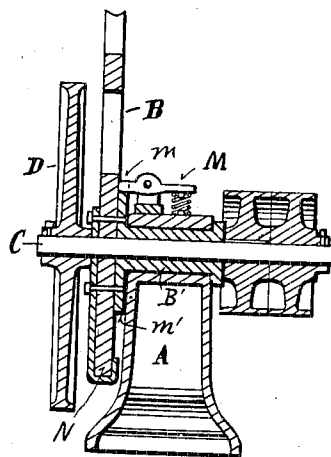


Fig. 2
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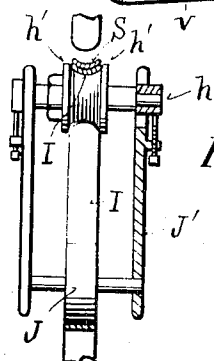


Fig. 3.
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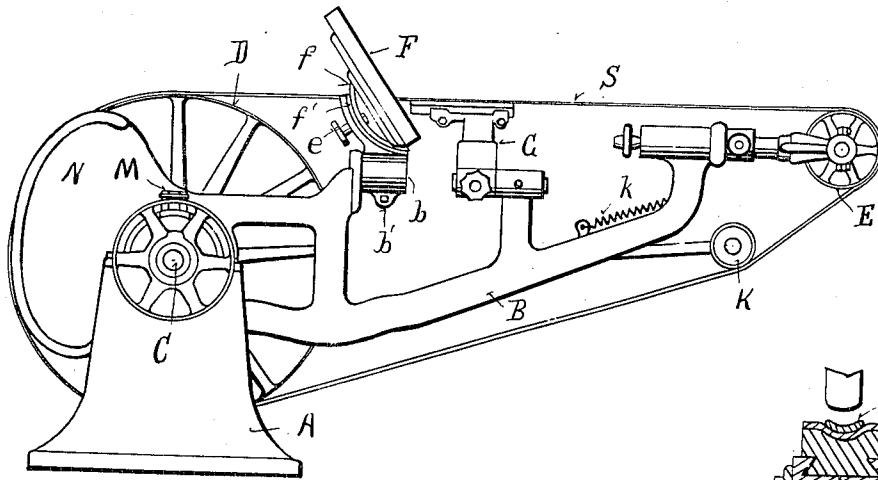


Fig. 4.

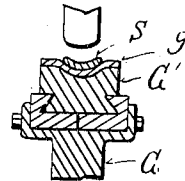


Fig. 5.

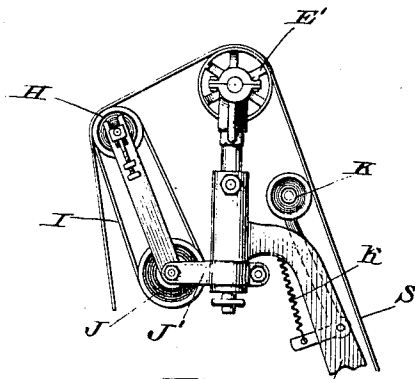


Fig. 6.

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UNITED STATES PATENT OFFICE.

OLMEDO CORTEZ WYSONG, OF GREENSBORO, NORTH CAROLINA.

WOODWORKING-MACHINE.

No. 812,317.

Specification of Letters Patent.

Patented Feb. 13, 1906.

Application filed November 5, 1904. Serial No. 231,479.

To all whom it may concern:

Be it known that I, OLMEDO CORTEZ WYSONG, a citizen of the United States, residing at Greensboro, in the county of Guilford and State of North Carolina, have invented new and useful Improvements in Woodworking-Machines, of which the following is a specification.

My invention relates to improved mechanism for use in connection with a band-saw and sanding-belt. One of its objects is to provide a machine for carrying a band-saw or abrasive band, which can be adjusted to any desired angle to facilitate its use with a greater variety of work.

Another object is to provide an adjustable work-table, guide, and forms to adapt it for use with an increased variety of work.

Another object is to provide an improved revolving form and cushion for use with abrasive bands.

It further consists in certain details of form, combination, and arrangement, all of which will be more fully set forth in the description of the accompanying drawings, in which—

Figure 1 is a perspective view of my improved mechanism in the vertical position. Fig. 2 is a central vertical section on line *v v* of Fig. 1. Fig. 3 is a detail view of the revolving form and cushion-belt. Fig. 4 is a view similar to Fig. 1, showing the mechanism in a horizontal position. Fig. 5 is a detail view of one of the adjustable form-carriers. Fig. 6 is a side elevation showing a modification of Fig. 1.

A represents the base in which the frame B journals by means of sleeve B'.

C represents the driving-shaft, and D the pulley, by means of which the saw or abrasive band is driven.

Where an abrasive band S is to be used, I preferably employ a small pulley E' at the opposite end of the frame B, and when a band-saw is to be employed instead of an abrasive band I preferably employ a larger pulley and shift it to the position indicated by the dotted line E, Fig. 1.

F represents the work-table, which can be adjusted to the desired inclination by means of the counterpart curved surfaces *f f'* and clamping-screw *e*. The table is also journaled on stud *b* and clamped to its adjusted position by screw *b'*, whereby the table may be swung sidewise into and out of position, as desired.

G represents a swiveled bracket or support

in which may be mounted a variety of forms G', having cushioned faces *g*, by means of which the belt may be shaped and supported, so as to finish curved and irregular edges and surfaces. Bracket G may be swung out of use in the same manner as table E.

K represents an idler held against the belt S by tension of spring *k* to keep the belt strained, and permit it to yield to the pressure of the work.

The frame B is preferably locked to any desired position of inclination by means of a lever M, pivoted to the base A. The forward end of the lever enters one or other of a series of notches *m* in a flange *m'*, thereby locking the frame and base together. N represents a counterweight on frame B to assist in readily shifting the frame.

Where it is desired to finish the edges of curved or scroll work, I preferably employ the modification represented in Figs. 3 and 6, consisting of a forming-roller H, mounted on shaft *h* and clamped between flanges *h'*, so that the roller may be changed and one of different form substituted, as required. Over the roller H is a traveling cushion-belt I, the opposite end of which passes over an idler-pulley J, by means of which it is properly strained and held in place. J' represents a detachable frame-carrying roller H and pulley J, and which is adapted to be detachably clamped to the frame B. The abrasive belt S passes over the belt I, the two belts traveling at the same speed, preferably by reason of the frictional contact between the belts.

The device herein shown and described is capable of considerable modification without departing from the principle of my invention.

Having described my invention, what I claim is—

1. In a mechanism of the character specified, a base, a frame located at one side thereof and pivoted thereto, said frame being adjustable to varying positions relative to the base, means for locking the frame to the adjusted position, a band-carrying pulley mounted upon a shaft journaled within said pivot, and a band-carrying pulley adjustable relative to said frame.

2. In a mechanism of the character indicated, a base, a frame located at one side thereof and pivoted thereto, said frame being adjustable to varying positions relative to the base, and counterweighted so as to turn freely from one position to another, means for locking the frame to the adjusted position,

a pulley mounted upon a shaft journaled within said pivot, an idler-pulley carried by and adjustable relative to the frame.

3. In a mechanism of the character indicated, a base, a frame pivoted thereto, a pulley mounted on a shaft journaled in said pivot, a pulley carried by the frame and adjustable relative thereto, a work-table carried by and adjustable relative to said frame.

4. In a band-carrying mechanism a frame journaled to the base, and adapted to be adjusted to varying positions of inclination, a work-carrying table carried by said frame and means for adjusting the table to varying angles, and shifting it into and out of position for use.

5. In a woodworking-machine, a frame provided with band-carrying pulleys and

adapted to be adjusted to varying angles of inclination, a work-table, and an adjustable form above said table supporting one face of the band, said work-table and form being carried by said adjustable frame.

6. In a mechanism of the character indicated, a base, a frame pivoted thereto, a pulley mounted on a shaft journaled in said pivot, a pulley carried by the frame and adjustable relative thereto, and a work-table carried by said frame.

In testimony whereof I have affixed my signature in presence of two subscribing witnesses.

OLMEDO CORTEZ WYSONG.

Witnesses:

CLABON F. MOON,
GAITHER F. OAKLEY.