

B. D. WHITNEY.
Band Sawing-Machines.

No. 137,583.

Patented April 8, 1873.

Fig. 1.

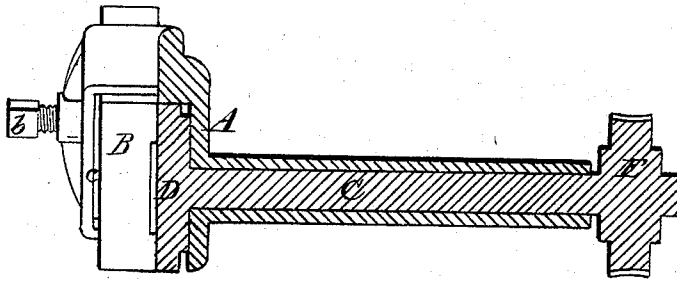


Fig. 2.

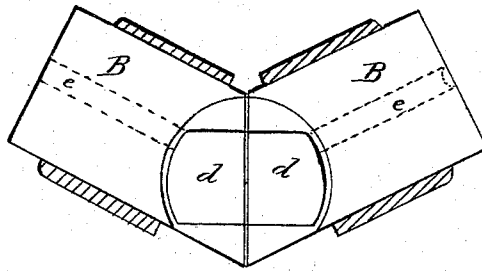
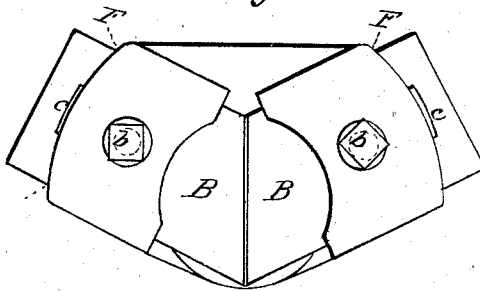


Fig. 3.



Witnesses
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BAXTER D. WHITNEY, OF WINCHENDON, MASSACHUSETTS.

IMPROVEMENT IN BAND SAWING-MACHINES.

Specification forming part of Letters Patent No. 137,583, dated April 8, 1873; application filed January 24, 1873.

To all whom it may concern:

Be it known that I, BAXTER D. WHITNEY, of Winchendon, in the county of Worcester and State of Massachusetts, have invented a certain new and useful Improvement in Band Sawing-Machines, being a device for reducing friction caused by the pressure or thrust of the saw against the back guide when in use; and the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 represents a side sectional view of the device, showing the worm-gear, shaft, revolving disk, lubricating guide-blocks, and supporting-frame. Fig. 2 shows the inside face of the lubricating guide-blocks. Fig. 3 is a face or front view of the same.

My invention relates to band sawing machinery; and consists of a rotating disk, arranged in a novel way, to resist the back pressure of the saw.

To enable others to make and use my invention, I will describe it in detail, referring to the drawing and letters thereon.

The metallic frame A, which supports the wooden saw-guides B B, also supports the rotating disk D, shaft C, and worm-gear E, or other suitable mechanism to keep in constant motion the disk or hardened steel surface, against which the back of the band-saw impinges when in motion. The side guides B B are made of hard wood, and are fitted into sockets F F, so that they may be adjusted

laterally to the thickness of the saw, and are secured firmly by set-screws *b b*, pressing against the plates *c c*, which prevent their indenting or bruising the guides. The guide-blocks B B are recessed on their inner face to admit of pieces of felt *d d* or other suitable material to be secured for retaining oil to lubricate the face of the rotating disk or back support of the saw. The wood guide-blocks B B are also provided with reservoirs *e e* for oil, to keep up a supply to the felt pieces *d d*, and also to admit through the pores of the wood endwise sufficient oil to lubricate the sides of the saw. The rotating disk D is arranged as a back support for the band-saw, and the center of the disk is placed a little one side of the saw, so that the course of the saw is not radial to the disk, and its bearing across the face of the rotating disk or its equivalent is constantly changing, and cannot groove or injuriously wear the disk. The saw operating on one side of the center of the disk will give it a rotary motion; but I prefer a positive mechanical motion.

What I claim as my invention is—

A saw-guide composed of the frame A, guides B B, and rotating disk D, or its equivalent, when arranged and operating in the manner and for the purpose herein shown and described.

BAXTER D. WHITNEY.

Witnesses:

J. B. WOODRUFF,
S. KEMON.