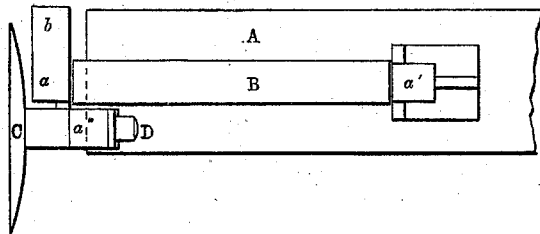


G. L. McCAHAN.
Circular Saw-Mills.

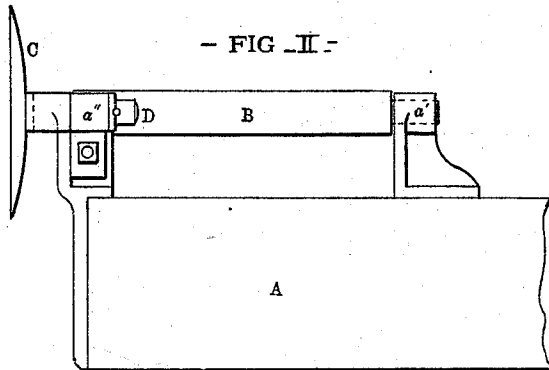
No. 150,875.

Patented May 12, 1874.

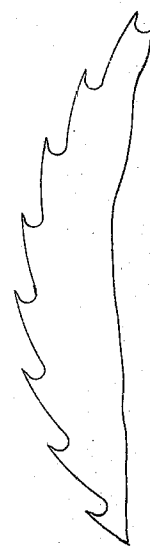
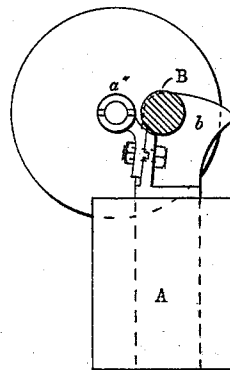
— FIG. I. —



— FIG. II. —



— FIG. III. —



— WITNESSES —

Carroll Webster
H. A. Daniels

— INVENTOR —

George L. McCahan
by G. H. M. D. Howard,
Atty.

UNITED STATES PATENT OFFICE.

GEORGE L. McCAHAN, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN CIRCULAR-SAW MILLS.

Specification forming part of Letters Patent No. 150,875, dated May 12, 1874; application filed April 7, 1874.

To all whom it may concern:

Be it known that I, GEORGE L. McCAHAN, of the city of Baltimore and State of Maryland, have invented certain Improvements in Circular-Saw Mills, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawing and to the letters of reference marked thereon.

My invention relates to a stand admitting of the placing of a scantling-roller and disk-wedge in separate bearings, the latter being in a bearing adapting it to be adjusted to suit the angle of inclination at which the saw is set, it being common to set the saw at a slight angle to give it clearance and prevent scoring of the log. A portion of this stand is also designed to lead or direct such thin stuff as may be sawed to the scantling-roller, and to prevent such stuff from becoming obstructed by the stand instead of passing over the said roller, and inconvenience and possible danger to the sawyer or machinery from such cause.

In the further description of my invention which follows, due reference must be had to the accompanying drawing, in which—

Figure 1 is a plan view, Fig. 2 a front elevation, and Fig. 3 a transverse section, of a portion of a saw-frame having my improvements thereon.

Similar letters of reference indicate similar parts of the invention in all the views.

A is the saw-frame; B, the scantling-roller; and C, the disk-wedge. The scantling-roller is mounted in bearings *a* and *a'* secured to the saw-frame, the bearing *a* having attached to it an additional bearing, *a''*, for the pin of the disk-wedge D. The bearing *a''* is adjustable

in the direction of the length of the scantling-roller, the foot of the bearing being provided with a slot through which a bolt is passed, securing the foot to the bearing *a*. The scantling-roller and pin of the disk-wedge are thus in parallel bearings, and the disk-wedge capable of being adjusted to suit the projection of the saw consequent upon the angle at which it is set. The front portion of the bearing *a* is formed into a horn, *b*, which serves to guide the stuff to the scantling-roller, and prevent the stuff catching on and being obstructed by the bearing *a*.

The advantage of placing the scantling-roller and disk-wedge in separate bearings is that, while the latter is performing its function of keeping open the cut, the scantling-roller can be used for drawing other lumber back thereupon, which operation is found to be very convenient under certain circumstances.

Having thus described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. The scantling-roller B and disk-wedge C in separate parallel bearings, the latter being in a bearing capable of adjustment in the direction of the length of the scantling-roller, when relatively arranged, as and for the purposes specified.

2. The horn *b* on the front portion of the bearing *a*, arranged, with relation to the disk-wedge C and the bearing-roller, as described.

In testimony whereof I have hereto subscribed my name this 31st day of March, A. D. 1874.

GEORGE L. McCAHAN.

Witnesses:

WM. H. H. YOUNG,
GEO. W. TAYLOR.