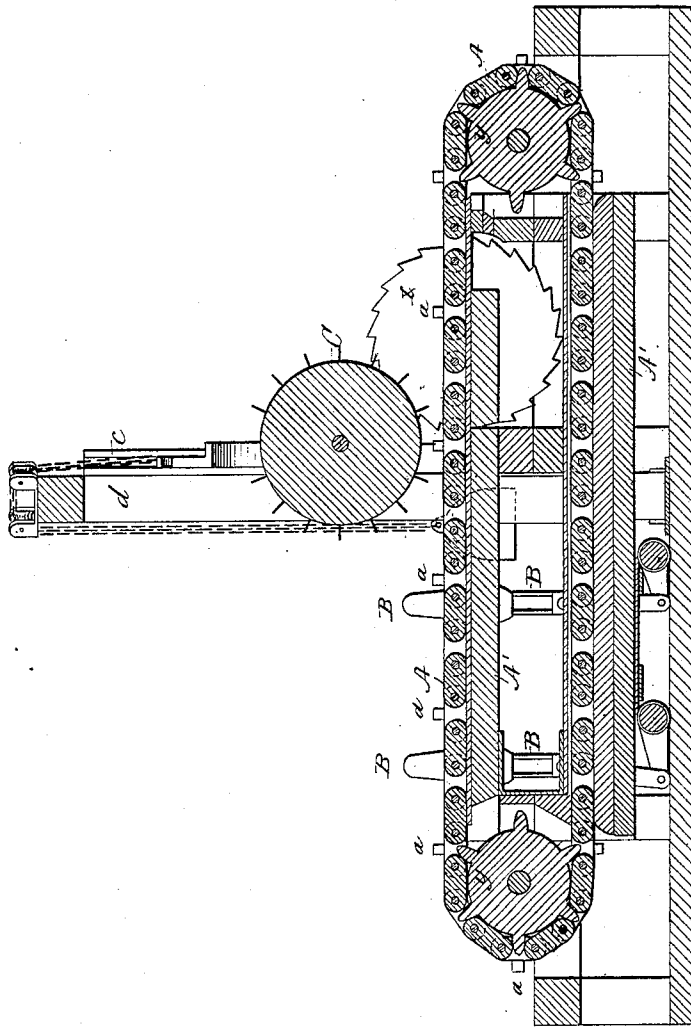


2 Sheets—Sheet 1.

No. 252,689.

Patented Jan. 24, 1882.

Fig. 1.



Witnesses
H. E. Leomin
Edith Coleman

Inventor:
Charles J. L. Meyer
By his Attorney
Wm. Conklin

(No Model.)

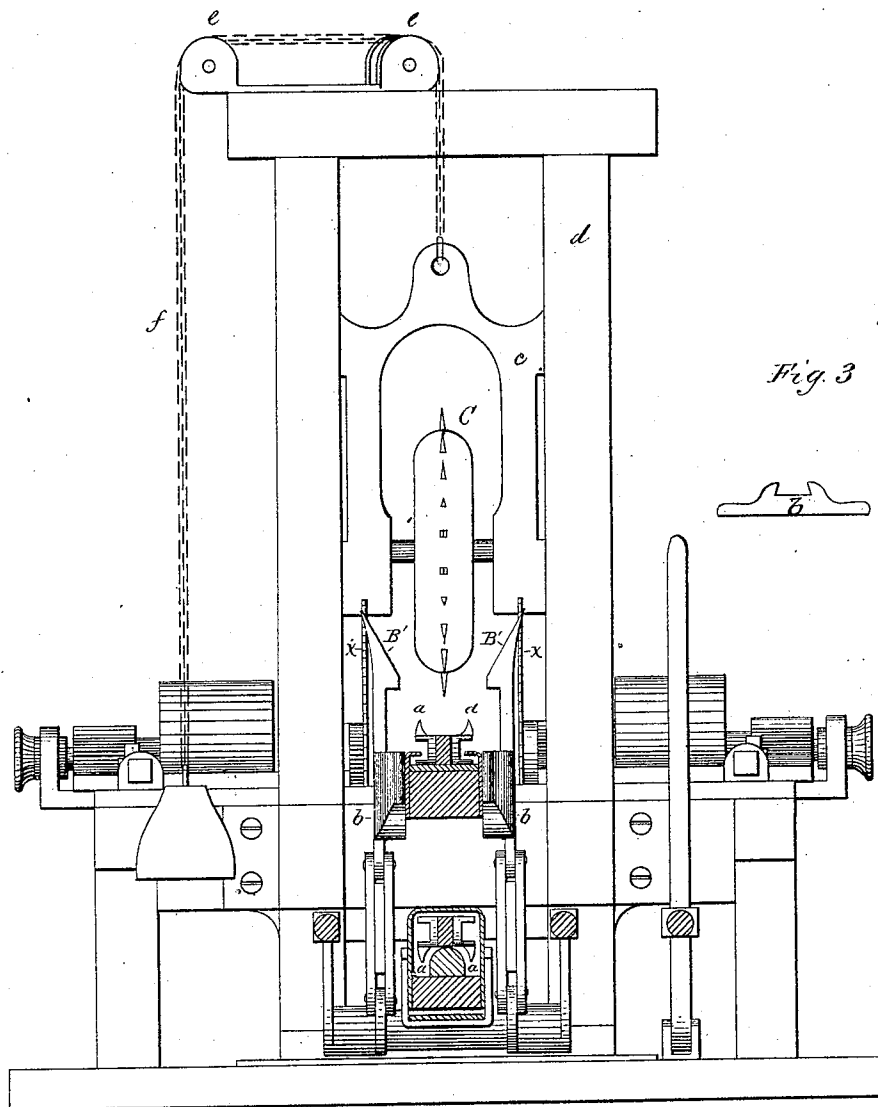
2 Sheets—Sheet 2.

C. J. L. MEYER.
CIRCULAR SAW MILL.

No. 252,689.

Patented Jan. 24, 1882.

Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES J. L. MEYER, OF FOND DU LAC, WISCONSIN.

CIRCULAR-SAW MILL.

SPECIFICATION forming part of Letters Patent No. 252,689, dated January 24, 1882.

Application filed September 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. L. MEYER, of Fond du Lac, Wisconsin, have invented a new and useful Saw-Mill for Small Timber, of which the following is a specification.

My invention relates to improvements in machines for handling and cutting small logs or timber into railway ties, saw-cants, and like pieces; and the objects of my improvements are, first, to provide a continuous feed to and between parallel saws adapted to cut slabs simultaneously from each side of the log; second, to center the log automatically, and, third, to secure or dog the small log upon its narrow carriage. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the whole machine. Fig. 2 is a transverse sectional view of the machine. Fig. 3 gives outline views of detached parts.

Upon a suitable timber frame are mounted the parallel saws *x x*, and the other appurtenances of the mill described as follows:

The log-carriage consists of an endless chain, A, traveling along the upper side of the frame on ways A' A' toward and between the saws *x x*, and is moved by drums *y y* at either end of the frame. This chain is provided with vertical sharp lugs *a a*, distributed in pairs upon the links at such spaces apart as may be desired, and which serve as head-blocks and dogs for the log.

Four or more vertical standards, B B, of uniform length, size, and shape, and parallel with and opposite each other, move through slides *b b*, attached to the outer shears of the frame, in front of the saws, and are raised and lowered conjointly by means of bell-cranks, links, and lever, as shown, or by other equivalent mechanism. The heads of these standards are uniformly flared outwardly and beveled on their

inner faces, so as to form together the wyes B' B'. These standards being uniform and equidistant from the chain-carriage A, it is obvious that the log rolled into the wyes B' B' must rest with its axis perpendicular to and parallel with the center line of the chain-carriage; in other words, it must center itself. Upon reception of the log the standards are dropped, leaving the log squarely upon the lugs *a a* and freed from the wyes B' B'. The lugs *a a* penetrate and clutch the bottom of the log, but they are necessarily so small and narrow that a further dog device is requisite. This dog is supplied by a heavy wheel provided with spikes in its periphery C. This spiked wheel is suspended over the center of and its axis is at right angles with the chain-carriage A, and plays up and down in that position by means of the frame, slideways, pulleys, cord, and balance-weight *c d e f*, as shown, or other equivalent device. This spiked wheel engages and dogs the log as it reaches the saws *x x*, and as it passes between and is cut by the saws the wheel revolves upon and with its weight and spikes holds it firmly to its place.

I claim as my invention and desire to secure by Letters Patent—

1. In a saw-mill for slabbing ties and small timber, the adjustable bed or wyes B' B', in combination with the log-carriage and saws, substantially as and for the purposes shown and described.

2. The combination, in a mill for cutting ties or small cants, of parallel saws *x x*, chain-carriage A A', the adjustable and reciprocating bed or wyes B' B', and the wheel-dog C, substantially as shown.

CHARLES J. L. MEYER.

Witnesses:

J. B. PERRY,
JOS. D. RADFORD.