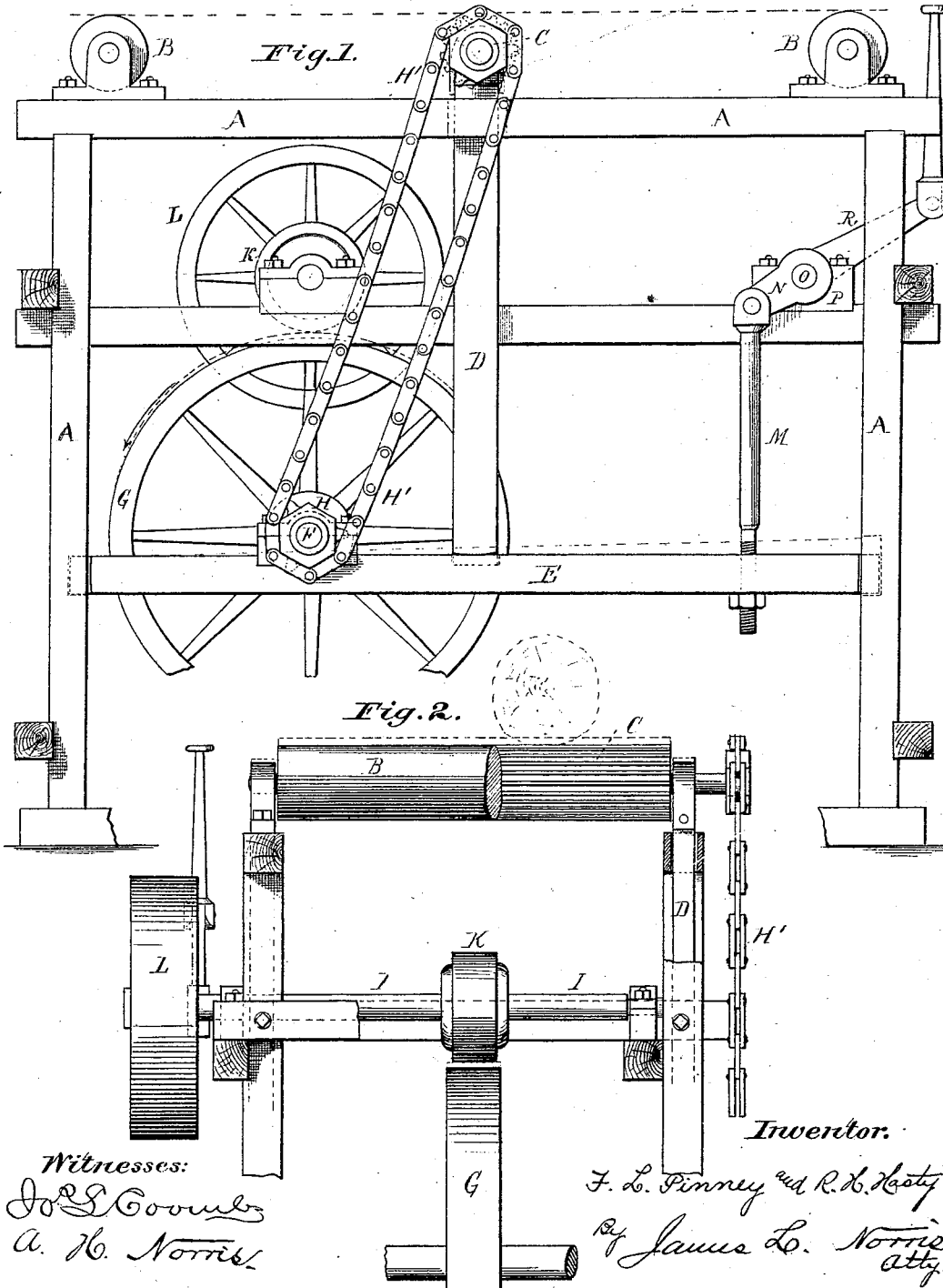


F. L. PINNEY & R. H. HASTY.

Lumber-Carrier.

No. 160,029.

Patented Feb. 23, 1875.



Witnesses:
J. S. Coombs
A. H. Norris

Inventor:
F. L. Pinney and R. H. Hasty
By *James L. Norris*, atty.

UNITED STATES PATENT OFFICE.

FOREST L. PINNEY AND ROBERT H. HASTY, OF ANOKA, ASSIGNORS OF ONE-THIRD THEIR RIGHT TO C. F. WASHBURN, OF MINNEAPOLIS, MINN.

IMPROVEMENT IN LUMBER-CARRIERS.

Specification forming part of Letters Patent No. **160,029**, dated February 23, 1875; application filed September 12, 1874.

To all whom it may concern:

Be it known that we, FOREST L. PINNEY and ROBERT H. HASTY, both of Anoka, in the county of Anoka and State of Minnesota, have invented certain Improvements in Lumber-Carriers, of which the following is a specification:

This invention relates to apparatus for moving lumber in saw-mills so that the operation is facilitated and much labor dispensed with. The improvements are fully hereinafter described, and the object of the same is to render such class of devices more simple and perfect in use than heretofore.

In the drawings, Figure 1 is a side elevation of my machine, and Fig. 2 is an end view of the upper portion of the same.

The frame upon which the rollers are mounted is represented by the letter A. B B represent two rollers, one at each end of the frame, mounted in bearings secured upon the top of the same. C represents the intermediate roller fluted longitudinally and mounted in bearings attached to the ends of two vertical beams, D D, secured to a shifting-frame, E, set in mortises in the lower part of the frame, as shown. Said shifting-frame E carries a shaft, F, upon which is mounted a driving-wheel, G, one end of said shaft being provided with a pulley, H, from which extends a chain or strap, H', which passes over a pulley on the shaft of the intermediate roller, by means of which motion is communicated to the same. Directly above the shaft F, and parallel with it, is arranged a shaft, I, carrying a friction-wheel, K, which falls directly over the driving-wheel G. This

shaft has its bearings in the frame A, and upon one end of the same is secured the main driving-wheel L, which derives its motion from the engine which drives the gang-saws. The shifting-frame has secured to one end two upright bars or rods, M M, which are connected to the lever N N upon a rock-shaft, O, mounted in bearings P P attached to the frame A. One end of said rock-shaft has secured to it a lever, R, by means of which it may be operated.

My device or apparatus is intended to be placed to the rear of the gang-saws, in such a position that the lumber, as it passes from the same, will pass over one of the rollers B B and will be pushed along until its end comes over the roller C. Then, by depressing the lever R on the rock-shaft, the shifting-frame E will be raised, elevating the roller C until it reaches the plane of the rollers B B and seizes the board to carry it forward. At the same time the driving-wheel G is elevated until it comes in contact with the friction-wheel K, by means of which said driving-wheel is put in motion, which is communicated to the roller C by means of the band or chain H'.

What I claim is—

The combination of the roller C, shifting-frame E, driving-wheel G, and friction-wheel K, arranged to operate as herein described.

FOREST L. PINNEY.
ROBERT H. HASTY.

Witnesses:

C. S. GUDERIAN,
J. M. WOODS.