

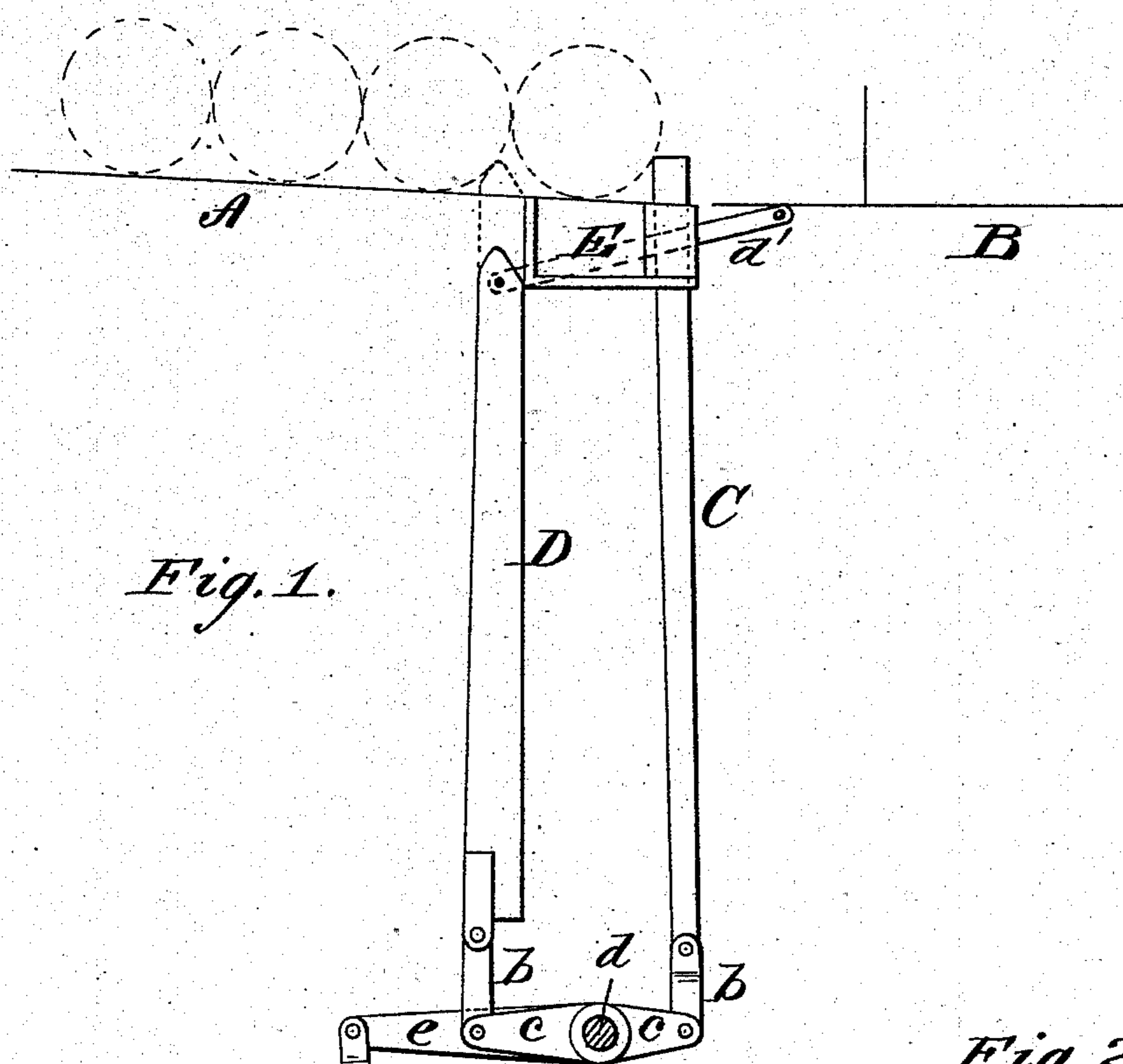
(No Model.)

F. S. FARR & J. EVERED.

LOG ROLLER.

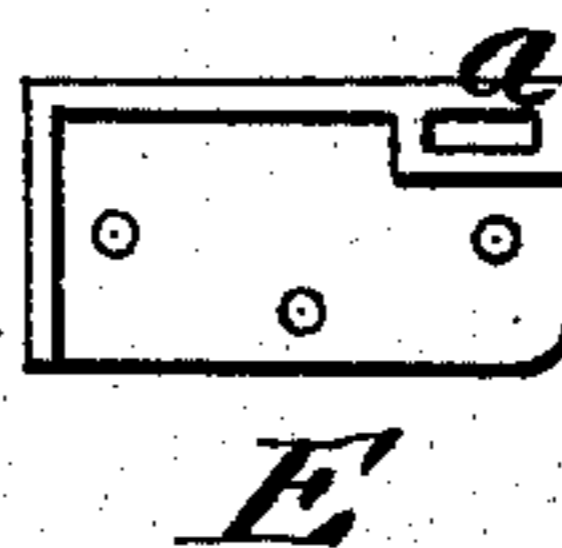
No. 288,415.

Patented Nov. 13, 1883.



*Fig. 1.*

*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

FREEMAN S. FARR AND JOSHUA EVERED, OF MUSKEGON, MICHIGAN.

## LOG-ROLLER.

SPECIFICATION forming part of Letters Patent No. 288,415, dated November 13, 1883.

Application filed June 14, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, FREEMAN S. FARR and JOSHUA EVERED, of Muskegon, in the county of Muskegon and State of Michigan, have invented a new and Improved Log-Carrier, of which the following is a full, clear, and exact description.

Our improvements relate to machines for taking logs from mill-decks and placing them on the carriages. With machines for this purpose as heretofore constructed, especially when used with steep inclined decks, there is a liability and frequent occurrence of the logs being thrown against the carriage-blocks with such force as to break the blocks. The object of our invention is to obviate the difficulty named and permit of the more convenient movement of the logs by power; and it consists in a movable stop combined with a canting-arm, both being fitted for operation by a steam-cylinder, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a sectional elevation of our improved log carrier or mover, and Fig. 2 is a plan view of the canting-plate.

A represents the saw-mill deck, on which the logs are placed, and B is the carriage, at the side of which the deck A terminates, so that the logs can be moved to the carriage. C is the log-stop at the end of the deck. D is the canting-arm, and E the canting-plate, these parts D E being of the same character as those in ordinary use; and plate E is formed with an aperture, (shown at *a* in Fig. 2,) through which the stop C slides. The stop C and arm D are connected by jointed links *b* to crank-arms *c c* of a shaft, *d*, that is sustained in suitable bearings below the deck, and a third arm, *e*, of the shaft is connected by a rod, *f*, to the piston-rod *g* of the steam-cylinder *h*, by means of which the shaft *d* is rocked.

In the normal position of the parts shown by full lines in Fig. 1, the stop C is elevated in front of the lower log on the deck, and the log thus held until required by the Sawyer. When a log is to be moved to the carriage, steam is

admitted to the cylinder beneath the piston, and the shaft *d* being thus rocked, the stop C is moved down, thereby releasing the log, and the arm D rising at the same moment behind the log, it is thrown forward onto the carriage. The piston of the cylinder is then forced down, the arm D descends, and stop C rises in time to stop the next log. The arrangement is much superior to the machines in which the deck is provided with fixed stops over which the log is lifted, especially when the deck is steeply inclined and requires high stops, as in that case the log is thrown forward with so much force as to frequently break the stop-blocks on the carriage. As shown in Fig. 1, one end of a bar, *d'*, is pivoted to the pusher D near its upper end, the other end of bar *d'* passing through a slot in and being pivoted below the deck, said bar *d'* acting as a stay for the upper end of the pusher, and after the log has been started forward, as the pusher continues to rise, assisting to move the log.

We do not limit ourselves to movable stops fitted to slide endwise, as described, as they may be arranged for being depressed in any suitable manner.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The log carrier or roller having two alternately-moving bars or rods connected to the arms or cranks of a shaft adapted to be operated by a suitable motor, substantially as and for the purpose set forth.

2. In log carriers or movers, the bar *d'*, pivoted to the pusher near its upper end, and to the deck, in combination with the pusher D and stop C, substantially as described.

3. In a log carrier or roller, the combination of the pusher and stop, the links, the rock-shaft having the crank-arms connected to the links, and a third arm connecting the shaft to the motor-shaft, substantially as and for the purpose set forth.

4. In a log carrier or roller, the pusher and stop, adapted to have alternate vertical movement, in combination with the guide-plate having an aperture through which the stop passes, substantially as and for the purpose set forth.

5. In a log carrier or roller, the alternately-

moving pusher and stop, the stay-bar for the  
upper end of the former, the guide-plate with  
a slot through it for the stop, the rock-shaft  
having crank-arms connected to the pusher  
5 and stop by links, said shaft having an arm  
connected to the piston-rod by an intermediate  
rod, and the piston-cylinder, all in combina-  
tion, substantially as and for the purpose set  
forth.

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Witnesses:

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