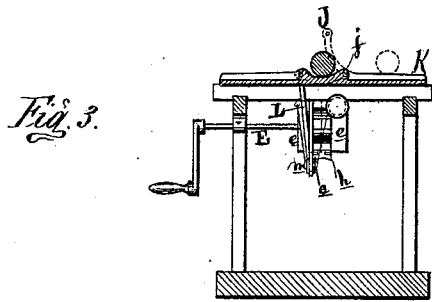
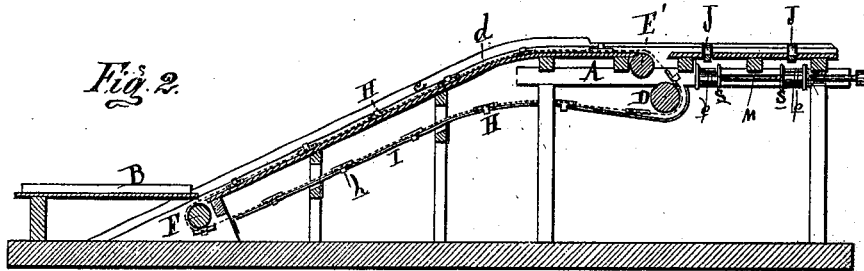
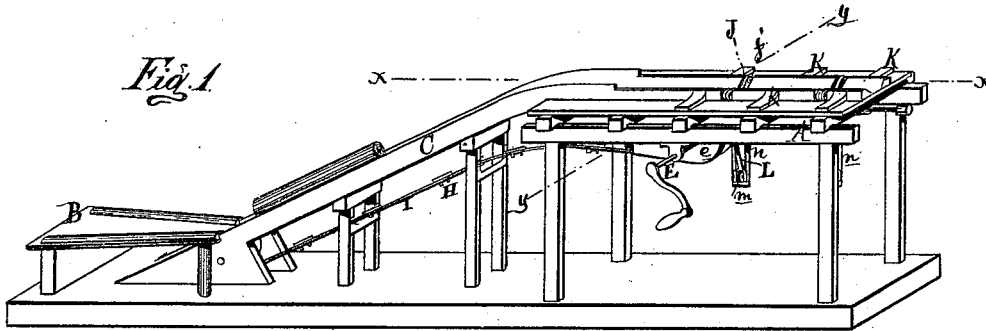


R. E. GLEASON.  
Log-Turner.

No. 197,465.

Patented Nov. 27, 1877.



Attest:  
Edward Priskel  
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# R. E. GLEASON. Log-Turner.

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Fig. 4.

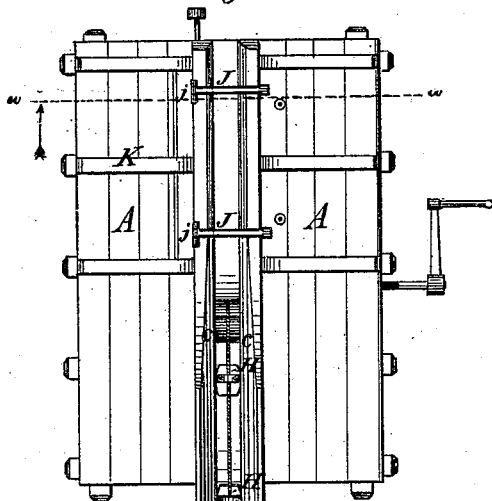


Fig. 5.

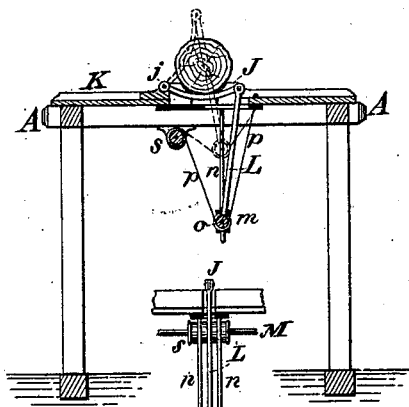


Fig. 7.

Fig. 7.

Fig. 6.

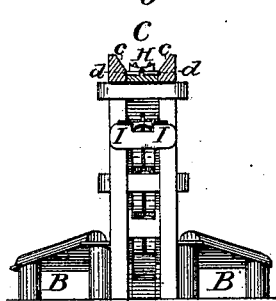
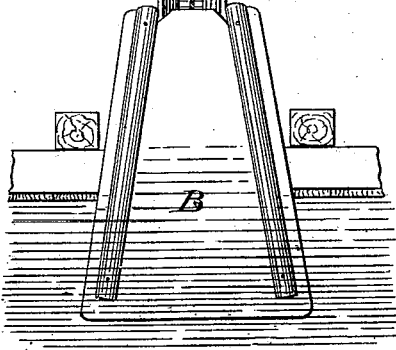
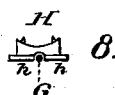


Fig. 8.



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Inventor:  
*Robert E. Gleason*  
*by Geo. W. Sizer*  
*attor.*

# UNITED STATES PATENT OFFICE.

ROBERT E. GLEASON, OF MUSKEGON, MICHIGAN, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO LUKE TURNBULL, OF SAME PLACE.

## IMPROVEMENT IN LOG-TURNERS.

Specification forming part of Letters Patent No. **197,465**, dated November 27, 1877; application filed September 11, 1876.

*To all whom it may concern:*

Be it known that I, ROBERT E. GLEASON, of Muskegon, in the county of Muskegon and State of Michigan, have invented a new and useful Improvement in Device for Handling Logs in Saw-Mills; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a vertical longitudinal section at *x x*. Fig. 3 is a cross-section at *y y*; Fig. 4, a top view; Fig. 5, a vertical section on line *w w* in Fig. 4; Fig. 6, similar view on the line *z z*; Fig. 7, a view of one of the devices for rolling the log; and Fig. 8, a separate view of the spurred saddles.

Like letters denote corresponding parts in each figure.

The nature of this invention relates to an improvement in a device for handling and conveying logs in a saw-mill; and it consists in the combination of an endless chain working in the logway, and having spurred saddles for elevating logs from the boom to the floor of a mill, with pivoted levers for receiving the log from such endless chain and rolling the same upon the skidway, as fully hereinafter explained.

In the drawing, A represents the floor of a mill, and B the boom. C is a log way or slide, extending from the floor of the mill down into the boom, and is provided with the beveled sides *c* to keep the log in place on the saddles of the endless chain, as is more fully hereinafter set forth.

D is a chain-pulley keyed upon the shaft E, and E' is a guide-pulley, both of which are journaled in hangers *e* secured to the under side of the floor A. F is an idler journaled in the slide or logway at or near its lower end.

The endless chain G passes over the pulleys

D and E' and the idler F, and has secured to it, at proper intervals, the spurred saddles H, the base-plates *h* of which slide in grooves *d* in the sides of the logway, while moving toward the mill; but on the return the base-plates slide upon the guides I, arranged beneath the logway.

J J are levers pivoted at *j* near the side of the logway, next to the skids K. To the other end of these levers are pivoted the rods L, having secured to their lower ends the cross-heads *m*, which slide in the guides *n* pendent from the floor above. Within the cross-heads are pivoted pulleys *o*, around which pass the cords or chains *p*, one end of each of which is secured to the floor, while the other ends wind upon the drums *s* in the shaft M, which latter is driven, when required, by any convenient means.

In operating this device, a log floating in the boom is brought up so that one end will project over the lower end of the logway, where it is seized by the spurred saddles H, and is carried along by them and deposited upon the upper ends of the slides, beyond the point where the chain passes through the floor. A rotary motion is then given to the shaft M, which winds the cords *p* upon their respective drums, causing the rods L to raise and tilt the levers J J, so that the log will roll off upon the skids K.

What I claim as my invention is—

In a saw-mill, the combination of the logway C and endless chain G, carrying spurred saddles for elevating the log from the boom to the floor of a mill, and the pivoted levers J J for receiving the log from such endless chain and rolling the same upon the skidway, substantially as described and shown.

ROBERT E. GLEASON.

Witnesses:

H. S. SPRAGUE,  
WM. P. SPALDING.