

J. C. MOORE.
Log-Turners.

No. 138,270.

Patented April 29, 1873.

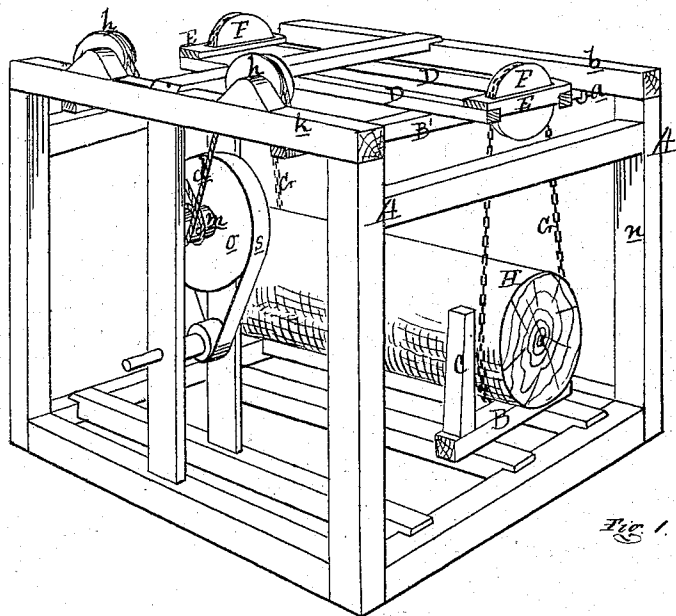


Fig. 1.

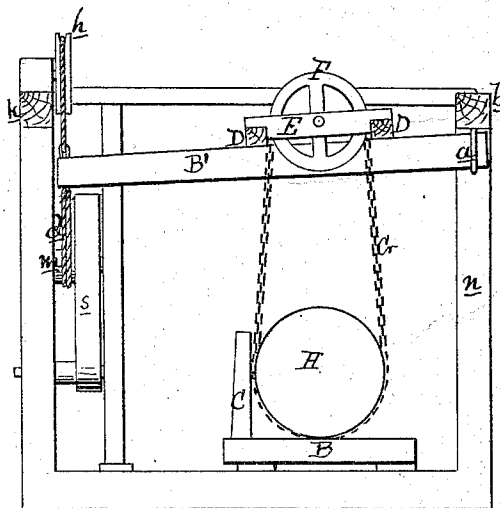


Fig. 2.

ATTEST:

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UNITED STATES PATENT OFFICE.

JAMES C. MOORE, OF YPSILANTI, MICHIGAN.

IMPROVEMENT IN LOG-TURNERS.

Specification forming part of Letters Patent No. **138,270**, dated April 29, 1873; application filed February 3, 1873.

To all whom it may concern:

Be it known that I, JAMES C. MOORE, of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented a new and useful Improvement in Log-Turners; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view, showing the log raised from the carriage. Fig. 2 is an end elevation, showing the log on the carriage, with the elevating-chains.

Like letters refer to like parts in each figure.

The nature of this invention relates to the construction of a device by means of which to turn logs, when required, in the operation of sawing lumber, said device being operated from over the log, by suspending the same in suitable slings suspended and operating by means of proper blocks. The invention consists, first, in the combination with certain slings and sheaves of the suspended frame and ways by means of which the slings are compelled to lift the log clear of the carriage; second, in combination with said frame and ways, the devices for operating the same, as more fully hereinafter described.

In the accompanying drawing, A A represent the frame of a mill; B, the carriage, provided with dogs C, all of the usual construction. B' are two levers, suspended by suitable brackets, hooks, or suitable and equivalent devices, at *a*, to the plate *b* of the frame. Their opposite ends are suspended by means of chains or ropes *d*, which pass over sheaves *h* properly secured to the plate *k* of said mill-frame, and the chains or ropes are secured to the drum *m*. Secured to the levers B' are the ways D, upon which the small carriages E can be moved in either direction, to accommodate varying lengths of logs. These small carriages carry the sheaves F, over which pass the chain-slings G, which, when not in use, may be hung out of the way on the posts *n* of the mill-frame. To the drum *m* is secured

the pulley *o*, and a belt, *s*, communicates motion thereto from the main driving-shaft (not shown) of the mill. Any tightener or other suitable and convenient device may be employed to compel the main driving-shaft to operate the drum when desired.

The operation of this device is as follows: H is a log resting upon the carriage, and we will suppose that it has been slabbed on one side, and it is now necessary to turn it upon the carriage to slab another side. The slings are detached from the posts and passed under the ends of the log. The device, whatever it may be, to compel the driving-shaft to give motion to the drum, is then brought into operation, when the chains or ropes *d* are wound around said drum, thereby elevating the ends of the levers to which the ropes or chains are attached. By this means the log is lifted clear from the carriage, and left suspended in the slings. A cant-hook may now be employed to turn the log in the slings to its correct and desired position, when the log may be lowered to place by releasing the power by means of which it was elevated.

It may not be necessary in the majority of mills to have the small carriages movable on the ways, as above described. In this case they should be rigidly secured, so that the slings will be suspended outside the dogs.

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

1. The combination, with the slings G, of the levers B', ways D, carriages or blocks E, and sheaves F, when arranged to operate substantially in the manner and for the purposes specified.

2. In a saw-mill, the arrangement of the chains or ropes *d*, sheaves *h*, drum *m*, pulley *o*, and bed *s*, in combination with the devices hereinbefore named for elevating the log, substantially as and for the purposes shown and described.

JAMES C. MOORE.

Witnesses:

THOS. S. SPRAGUE,
H. S. SPRAGUE.