

D. LANE.

Head-Blocks for Saw-Mills.

No. 136,657.

Patented March 11, 1873.

Fig. 1.

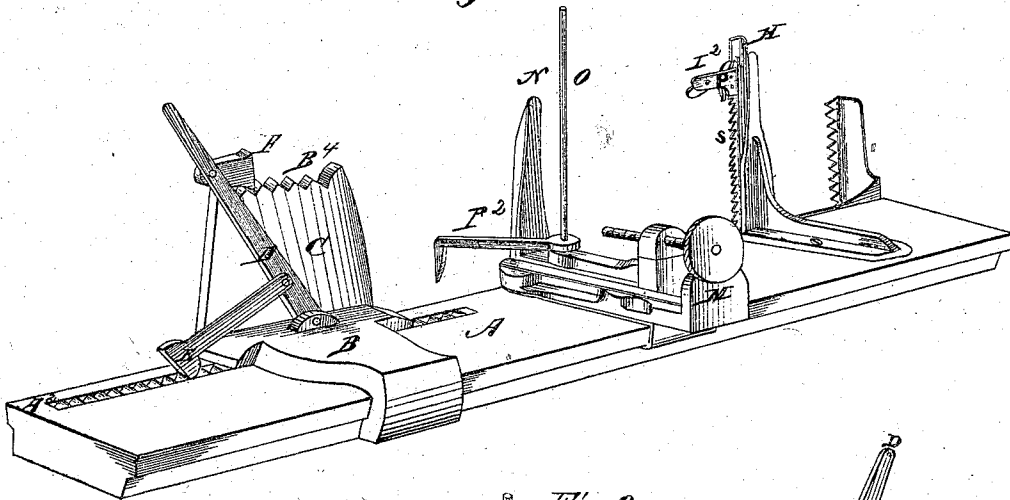


Fig. 2.

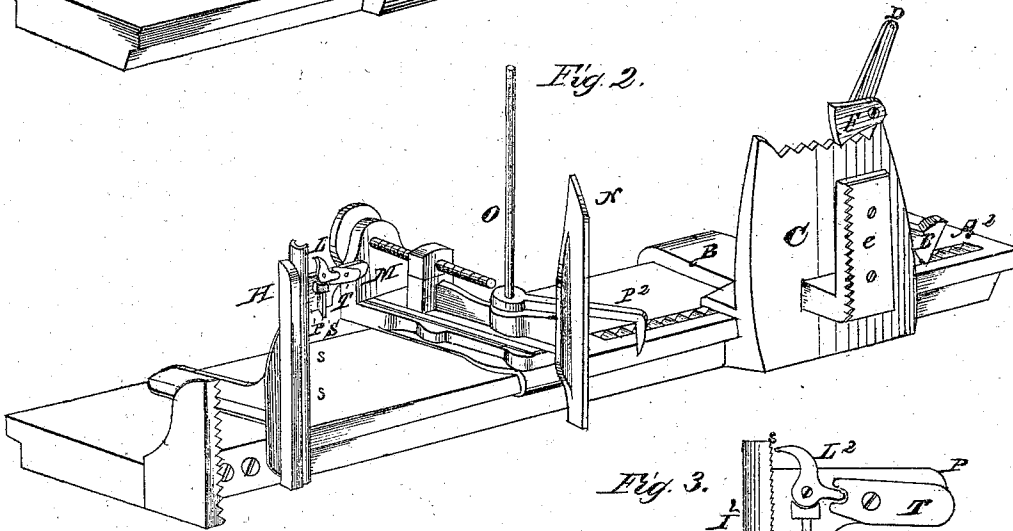
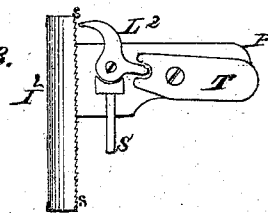


Fig. 3.



Witnesses.

Wahlow Taphin
Carroll Pitkin

Inventor.

Dennis Lane.

UNITED STATES PATENT OFFICE.

DENNIS LANE, OF MONTPELIER, VERMONT, ASSIGNOR TO HIMSELF, PERLY P. PITKIN, AND JAMES W. BROCK, OF SAME PLACE.

IMPROVEMENT IN HEAD-BLOCKS FOR SAW-MILLS.

Specification forming part of Letters Patent No. **136,657**, dated March 11, 1873.

To all whom it may concern:

Be it known that I, DENNIS LANE, of Montpelier, in the county of Washington and State of Vermont, have invented certain Improvements in Head-Blocks for Saw-Mills, of which the following is a specification:

The object of my invention is to provide a saw-mill carriage with means for holding a log firmly so that it can be sawed through and through into plank and leave a slab without turning the log; also, to provide means for springing a crooked log straight or moving one or both ends of a log forward or back independently of the setting-up devices; and also to provide one or more dogs to hold the last board in case logs are squared and sawed as usual.

In the drawing, A is a sliding bar of a saw-mill carriage, running parallel with the carriage sides and above the blocks that the logs lie on. This sliding bar is attached to the setting-up devices, and moves backward and forward on the blocks, setting up the log to be sawed or opening back to take on a fresh one. B is a slide attached to the sliding bar A, and provided with suitable lips to hold it in place, but allowing it to be adjusted to logs of different lengths. C is an upright attached to the slide B, and provided with a dog, *e*, for dogging into the end of a log. D is a lever, pivoted at its lower end and having a pawl, E, hinged to it, and meshing into the ratchet A² on the bar A, forming a fulcrum for the lever D. F is a pawl, attached to the lever D so as to engage with the ratchet B⁴ on the slide B. M is a bed-plate, made to slide on the bar A, or secured to it by bolts or screws. N is an upright lateral support for the log to rest against, and having a horizontal knee-piece running back at right angles. This upright lateral support N is constructed so as to slide in or upon the bed-plate M, and is made adjustable by a screw and hand-wheel, as represented in the drawing, or by a lever or other equivalent device. The bed-plate M, upright lateral support N, and the operating device referred to, are intended for the purpose of moving the log forward or backward independently of the setting-up device which operates the sliding

bar A. O is a perpendicular post, secured to the bottom part of the upright lateral support N. P² is a sliding dog, so constructed as to bind on the post O in such a manner as to prevent its working up when the point of same is driven into a log. H is an upright lateral support for the log, secured to the bar A, and extending up above the log or cant to be sawed. I² is a slide that moves up and down in a groove on the slide of the upright H. The slide I² is provided with a horizontal projection, P, at right angles with the upright H. Secured to this projection is a prong, S, that extends forward by the face of the upright H and downward so as to dog into the upper side of the log or cant while it is being finished up, one of the flat or sawed sides being turned toward the upright support H. L² is a small pawl, pivoted to the projection P to engage with the ratchet *s* on the upright support H, and hold the dog or prong S from working out of the log or cant while being sawed. T is a small lever pivoted to the projection P, and having a forked end to take in a cog on the pawl L², for the purpose of disengaging the said pawl from the ratchet *s* on the side of the upright support H.

From the foregoing description it will be seen that a log can be rolled onto a saw-mill carriage against the upright supports N and H, and the slide B moved up to the end of the log, so that when the lever D is pulled back the slide B is forced still further toward the log, driving the teeth of the dog *e* into the end of the log far enough to hold it firmly in place while being sawed up. These dogs can be used at one or both ends of a log.

In case logs are to be sawed into square-edged boards or plank, the slide B can be slipped off from the sliding bar A, and the adjustable dog P or the dog S used to secure the logs or cants.

As many of these dogs and upright supports can be used on the sliding bars of saw-mill carriages as may be found necessary or convenient.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the setting-up bar

of a saw-mill carriage, the slide B, lever D, pawls E and F, ratchets A² and B⁴, and dog e, substantially as and for the purpose specified.

2. The combination of the sliding dog P² on the post O with the upright N and setting-up bar A, substantially in the manner shown and described.

3. The combination and arrangement, with the upright support H, of the slide P², ratchet s, and locking devices, substantially in the manner shown and described.

DENNIS LANE.

Witnesses:

MAHLON TAPLIN,

CARROLL P. PITKIN.