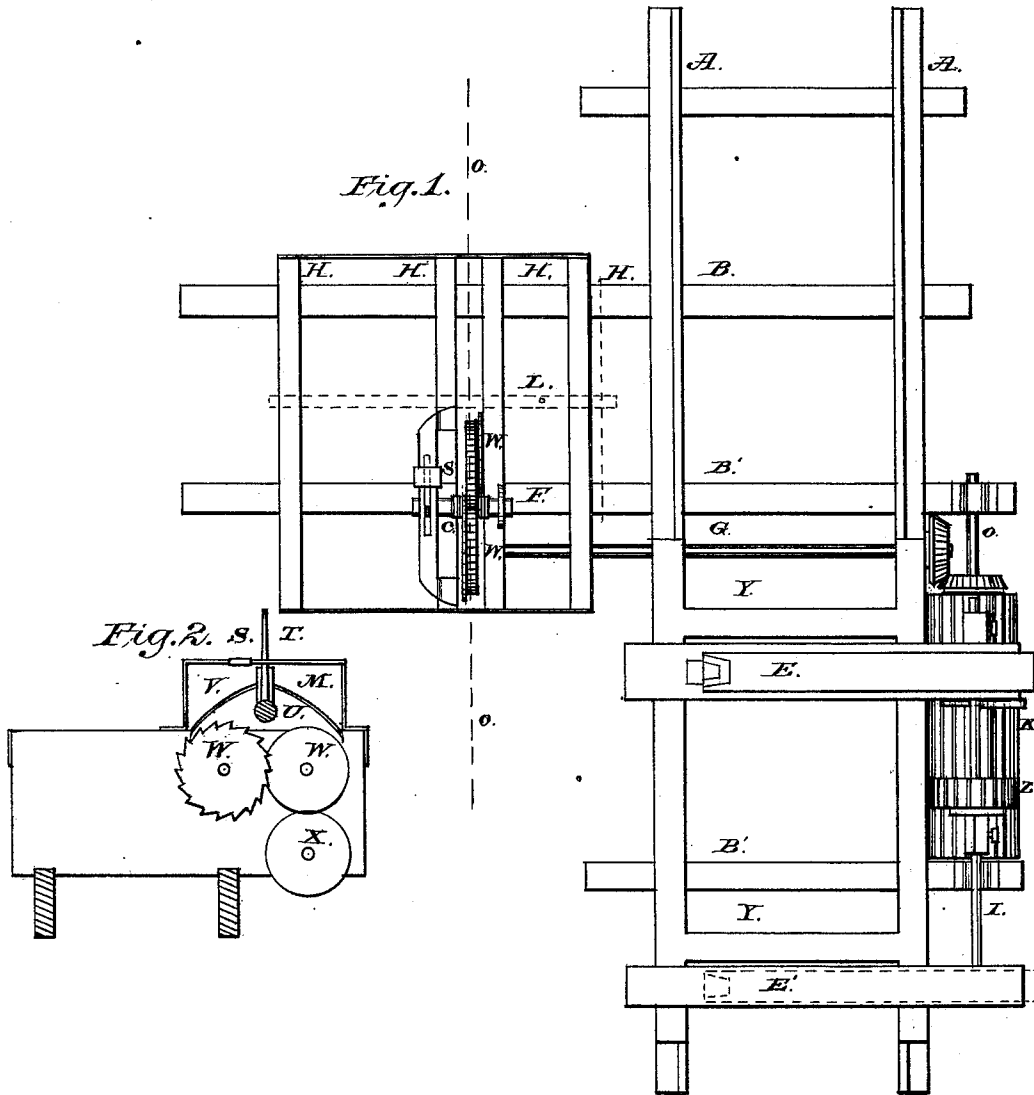


H. ALESLAGL.

HEAD-BLOCKS FOR SAW-MILLS.

175,000.

Patented March 21, 1876.



Attest:
W. H. Clark
J. M. H. Thomas

Inventor:
Henry Aleslagl
 By *B. Pickering*
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UNITED STATES PATENT OFFICE.

HENRY ALESLAGL, OF PERRY TOWNSHIP, MONTGOMERY COUNTY, OHIO.

IMPROVEMENT IN HEAD-BLOCKS FOR SAW-MILLS.

Specification forming part of Letters Patent No. **175,000**, dated March 21, 1876; application filed February 3, 1876.

To all whom it may concern:

Be it known that I, HENRY ALESLAGL, of Perry township, Montgomery county, State of Ohio, have invented an Improvement in Head-Blocks for Saw-Mills, of which the following is a specification:

The object of my invention is to construct a log-set so that it may be operated by the sawyer without change of his position from where his services are ordinarily required.

Figure 1 is a plan view of the log-set with the accompanying parts. Fig. 2 is a cross-section on the dotted line *o o* of Fig. 1.

A A represent the carriage tracks or ways, supported on the sills B. These sills give support also to the several cross-pieces H, which constitute the saw-frame. The dotted lines L show the position of the saw and its shaft. The sills B' have bearings which support the shaft O of the lengthened cog-wheel K. The farther end of this cogged wheel is attached to a miter-wheel, which engages the wheel on the shaft G. Y Y represent the carriage-frame, having two cross-pieces, which support the knees E, one of which is represented by dotted lines at E'. These cross-pieces support the ends of the log, which are securely attached to the knees. The knees are constructed in the usual manner, the lower part entering grooves within the cross-pieces, and to the bottom of which are secured cog bars, which engage the cog-wheel Z, supported by the shaft I. To the hub of this cog-wheel, just outside of the cross-piece E, is attached a ratchet-wheel, the pawl of which serves to prevent the knee being moved backward. The shaft I is a square shaft, on which is slipped the cog-wheel Z, which is adjustable on the shaft, and, when in proper position, is held by a set-screw. To the left end of the shaft G is attached the cog-wheel X. This gears into

the wheel W, and this into its fellow. The cog-wheels W each have ratchets on opposite sides. The pawls V and U engage these ratchets, and the effect is to turn the shaft G forward or backward, as may be desired. The shaft *c* has two upright arms, to which the pawls are pivoted. A lever, T, is attached to this shaft, which passes through a slot in the arm M. To this arm is attached a slide, S, which is secured in different positions, determining the movement of the lever, and, as a consequence, gaging the width of the board to be sawed.

When the attendant draws the handle forward the log is carried in the direction of the saw; and to repeat the operation, the pawl V being up, the lever is carried back to the slide, and then brought forward to the end of the slot. To carry the knee back in position for another log, the pawl U is elevated, and the pawl V engages the ratchet and causes a backward movement.

By this mechanism the sawyer is enabled to set the log without changing his position from where his duties ordinarily require him to be.

The cog-wheel K is made long, so that the carriage may be adapted to logs of varying lengths without the necessity of making a change in the gear, the adjustment being effected by the cog-wheel Z sliding within the cogs of the lower wheel.

What I claim as my invention is—

The combination and arrangement of the pawls V and U, lever T, shaft *c*, wheels W W, the shaft G, with its cog-wheels at either end, and the lengthened cog-wheel K, constructed substantially as described, for the purpose of moving a log laterally on its carriage.

HENRY ALESLAGL.

Witnesses:

SAMUEL MILLS,
JOSEPH R. WRIGHT.