T. DILGER & W. R. DUNN.

Saw-Mill Head-Block.

No. 167,511. Patented Sept. 7, 1875.

FIG. I

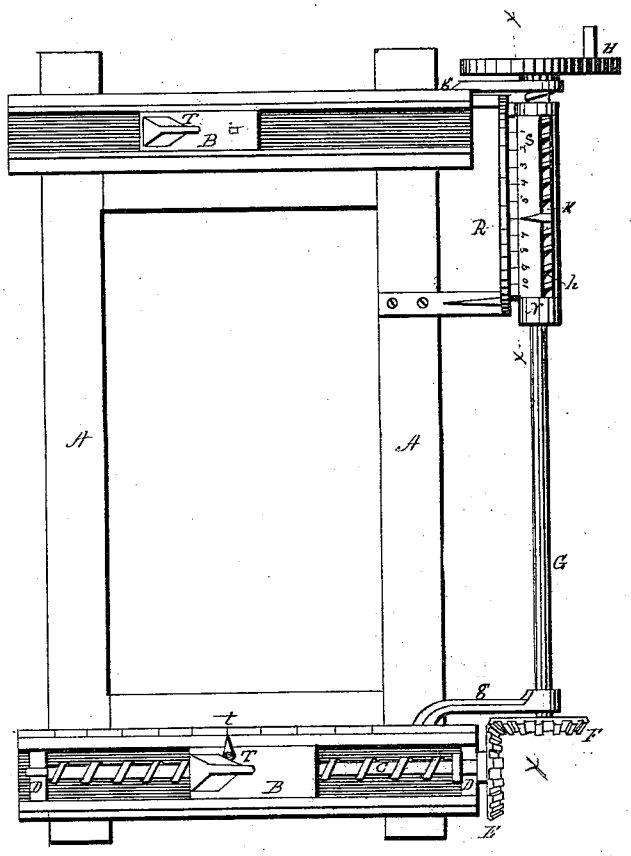
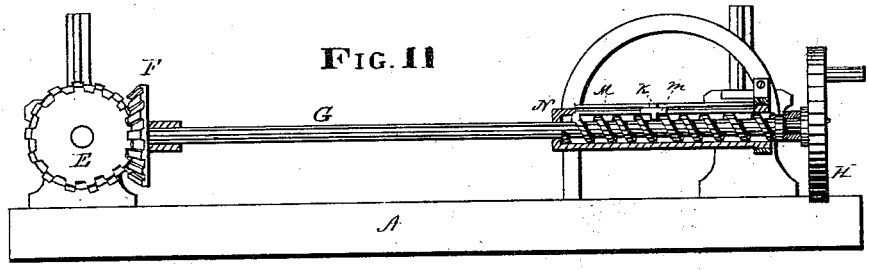


FIG. II



WITNESSES

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UNITED STATES PATENT OFFICE.

THEODORE DILGER AND WILLIAM R. DUNN, OF ALTON, INDIANA, ASSIGNORS TO THEMSELVES AND ABRAHAM N. PECKINPAUGH.

IMPROVEMENT IN SAW-MILL HEAD-BLOCKS.

Specification forming part of Letters Patent No. **167,511**, dated September 7, 1875; application filed June 24, 1875.

To all whom it may concern:

Be it known that we, THEODORE DILGER and WILLIAM R. DUNN, of Alton, Indiana, have invented certain new and useful Improvements in Saw-Mill Head-Blocks; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a plan view of the movable carriage of a saw-mill. Fig. 2 is a section through the line *x x*, Fig. 1.

Our invention relates to the construction and arrangement of the set-works of a saw-mill; and it consists in the screw-register attachment to facilitate the setting of the log.

In order that others skilled in the art may make and use our invention, we will proceed to describe the exact manner in which we have carried it out.

In the drawings, A represents the frame-work of a common movable carriage, upon which are secured the head-blocks B B. Through each head-block B passes longitudinally a screw-shaft, C, having suitable bearings at D D. Upon the rear end of each shaft C is a beveled gear-wheel, E, meshing into the beveled gear-wheels F F on the shaft G, which has suitable bearings in the arms *g g*, and provided with the crank-wheel H, by which motion is imparted to the same. On one end of the shaft G is constructed a screw-thread, *h*, constructed of such proportions as to register with the screw-thread of the shafts C C. On the screw-thread *h* is placed the nut K, provided with a longitudinal bar, *m*, sliding in the slot M in the casing N, which incloses the screw-thread *h*. Transversely of the bar *m* is secured the index R, sliding over the scaled plate S to indicate the position of the brackets or standards T T, and register with the index *t* on each of the head-blocks, thus furnishing a ready means by which the man at the head-block can determine the exact movements of the log on the frame.

We are aware that dials, with pointers and wheels connected by an endless belt, have been used to register and indicate the position of standards or brackets upon the head-blocks; but this combination of devices has proven insufficient and troublesome, as the points have to be frequently set, and the belt is liable to variations in tension, which renders its action uncertain.

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

In a registering device for head-blocks for saw-mills the shaft G, provided with the screw-thread *h* and slotted casing N, in combination with the nut K, provided with the longitudinal bar *m*, and index R, and scale-plate S, all constructed to operate substantially as and for the purpose set forth.

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Witnesses:
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