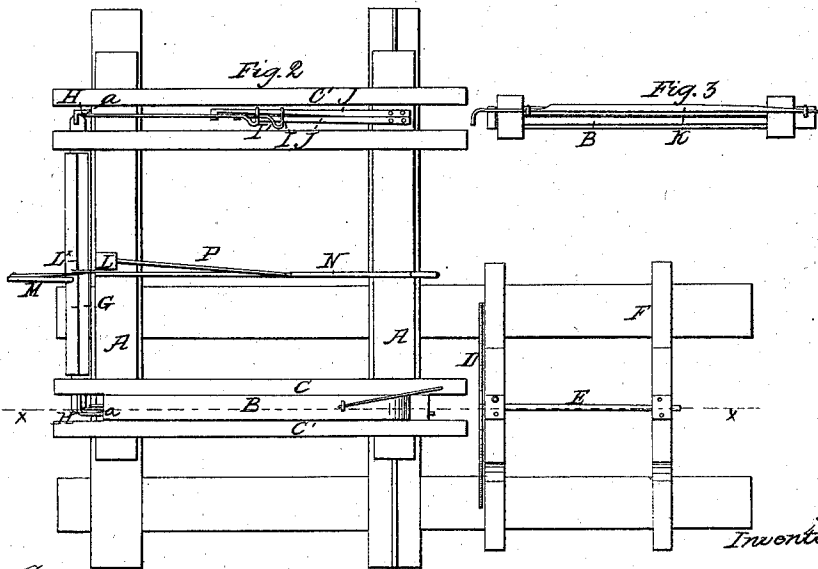
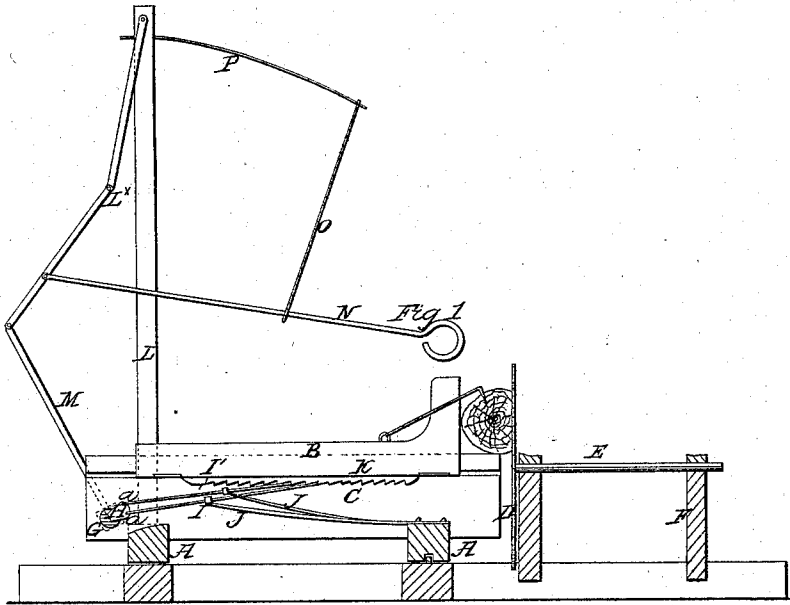


J. A. Griggs

Saw-Mill Head-Block

No 56,929

Patented Aug. 7, 1866



Witnesses:

J. W. B. Conington
Wm. Furman

Inventor:

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UNITED STATES PATENT OFFICE.

J. A. GRIGGS, OF CHARLESTON, ILLINOIS.

IMPROVEMENT IN HEAD-BLOCKS FOR SAW-MILLS.

Specification forming part of Letters Patent No. 56,929, dated August 7, 1866.

To all whom it may concern:

Be it known that I, J. A. GRIGGS, of Charleston, in the county of Coles and State of Illinois, have invented a new and useful Improvement in Log-Setting Devices for Saw-Mills; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of my invention, taken in the line *xx*, Fig. 2; Fig. 2, a plan or top view of the same; Fig. 3, a detached inverted plan of one of the head-blocks pertaining to the same.

Similar letters of reference indicate like parts.

The object of this invention is to obtain a device whereby logs may be set to a circular saw by the sawyer himself without the aid of an assistant; and it consists in setting the log by means of a bar or handle passing over the log and saw and within convenient reach of the sawyer, in connection with certain mechanism hereinafter described.

A A represent the carriage of a saw-mill; B B, the head-blocks, placed transversely thereon, and fitted between suitable guide-blocks C C.

D is a circular saw, the mandrel or arbor E of which is placed on a suitable framing, F. The parts above described may be constructed in the usual manner, and therefore do not require a special or minute description.

G is a rock-shaft, the ends of which pass into the guide-blocks C C, said blocks serving as bearings for the rock-shaft. On each end of this rock-shaft there is secured a metal plate, H, having two holes, *aa*, made in them to receive the inner ends of pawls I I', which rest upon springs J J, the latter having a tendency to keep the outer or free ends of the pawls engaged with racks K at the under sides of the head-blocks B B. The holes *aa* in each plate H are made at opposite sides of the axis of the rock-shaft G, so that when the latter is operated one pawl will engage with the rack K of its head-block, while the other

is drawn back. This will be fully understood by referring to Fig. 1.

L is a standard, firmly attached to the carriage, and L^x is a toggle, which connects the upper end of the setting-lever M with the upper end of the standard L. To the lower arm of the toggle there is connected a bar or handle, N, which is retained in a horizontal position, or about in that position, by a cord or chain, O, attached to a spring, P, secured to the upper end of the standard. The bar or handle N extends transversely over the carriage A A and within convenient reach of the sawyer, who, when the mill is in operation, stands at the point*.

From the above description it will be seen that the sawyer, by operating the bar or handle N, will actuate the toggle L^x, setting-lever M, rock-shaft G, and the pawls I I', the latter moving the head-blocks B B and setting the log to the saw.

By this arrangement the sawyer is saved considerable labor, as the log may be set to the saw from a point or position where the mechanism for gigging back the carriage may be set in motion. Considerable time is also saved thereby.

The invention is now in use, and about five hundred feet more of lumber, with one less hand, can be sawed in a day than can be turned out by mills provided with the ordinary log-setting mechanism.

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

The setting of logs to circular saws by means of a bar or handle passing over the log and saw to within convenient reach of the sawyer, and connected by a toggle and rock-shaft to pawls which engage with racks on the head-blocks, substantially as here in shown and described.

The above specification of my invention signed by me.

J. A. GRIGGS.

Witnesses:

S. H. NESBIT,
D. C. AMBLER.