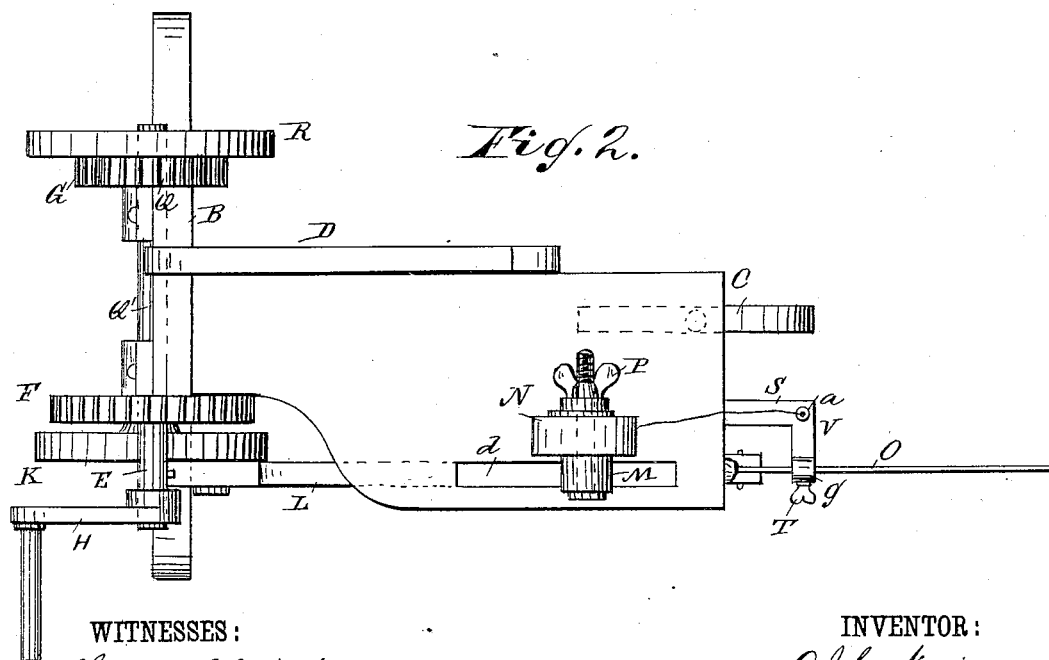
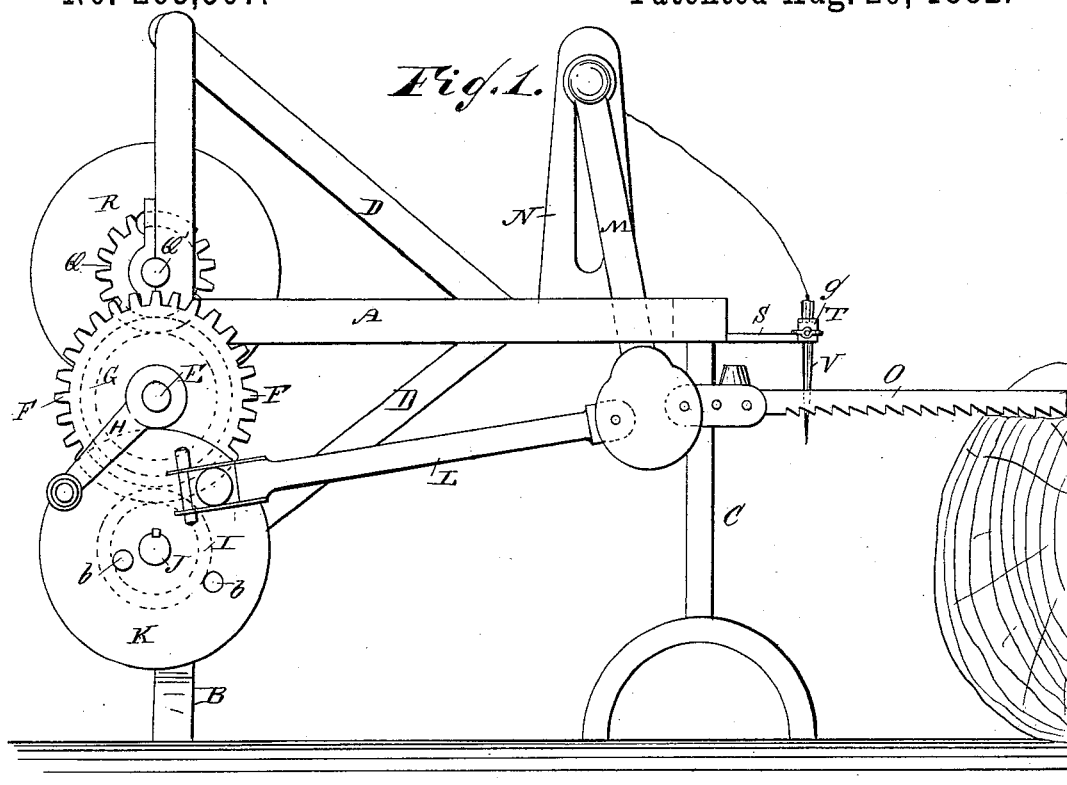


(No Model.)

O. J. C. NORRIS.
DRAG SAWING MACHINE.

No. 263,567.

Patented Aug. 29, 1882.



WITNESSES:

Thos. G. Watson
C. Sedgwick

INVENTOR:

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UNITED STATES PATENT OFFICE.

OTHO J. C. NORRIS, OF ROHRERSVILLE, MARYLAND.

DRAG-SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 263,567, dated August 29, 1882.

Application filed May 17, 1882. (No model.)

To all whom it may concern:

Be it known that I, OTHO J. C. NORRIS, of Rohrersville, in the county of Washington and State of Maryland, have invented a new and Improved Sawing-Machine, of which the following is a full, clear, and exact description.

The object of my invention is to facilitate the sawing of large trees and logs.

The invention consists in a sawing-machine having its saw attached to the lower end of a swinging arm pivoted adjustably to a standard on the frame of the machine, which swinging arm is operated by a connecting-rod pivoted to a crank-wheel operated by suitable cog-wheels and a crank, which crank-wheel has a series of pivot-apertures at different distances from the center, so that the stroke of the saw can be adjusted as may be desired, as hereinafter fully described, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal elevation of my improved sawing-machine. Fig. 2 is a plan view of the same.

The platform A is supported by two standards or legs, B and C, at opposite ends, the rear standard, B, being braced by diagonal struts D. On the rear standard, B, a shaft, E, is journaled, and cog-wheels F and G are rigidly mounted on the opposite ends of this shaft, and on one end of the shaft, projecting beyond the cog-wheel F, a crank-handle, H, is mounted. The cog-wheel F engages with a cog-wheel, I, on a journaled shaft, J, below the shaft E, on the end of which shaft J a crank-wheel, K, is mounted, to which one end of a pitman or connecting-rod, L, is pivoted, the other end of this pitman or connecting-rod being pivoted to the lower end of a swinging rod, M, pivoted to a longitudinally-slotted standard, N, on the platform A, and passing through a slot, d, in the platform, to which swinging rod M the saw O is attached. The pivot of the rod M can be adjusted higher or lower on the standard N, and can be locked in the desired position by means of the thumb-screw P on the pivot of this rod M. The cog-wheel G on the shaft E engages with a cog-

wheel, Q, on the shaft Q' above the shaft E, on which shaft Q' the fly-wheel R is mounted. An angular or elbow arm, S, is attached to the platform A and projects from the front end of the same, and at its end this arm is bent upward, U-shaped, to form a slot or recess, g, for receiving or guiding the saw. A thumb-screw, T, passed through the bent part of the arm S, serves to lock and hold the saw in the same. The arm S is provided with an aperture, a, through which a pin, V, can be passed into or driven into the tree or log to hold the same to the sawing-machine. The wheel K is provided with a series of apertures, b, for receiving the pivot of the connecting-rod L, which apertures are different distances from the center of the wheel, so that the stroke of the saw can be adjusted as may be desired. By turning the crank-handle H the saw will be reciprocated, the fly-wheel R insuring a regular and even movement. The saw can be raised or lowered, as the circumstances may require, and the stroke can be varied according to the resistance of the log or tree.

The pin V can be used to hold the log to the machine, if desired, but that is not absolutely necessary.

The saw can be held and clamped in the arm S when it is not to be used, to prevent hanging on the ground, and thus protecting it from injury.

I am aware that a saw has been heretofore connected to a swinging arm, adjustably pivoted to a standard on the frame and connected by a pitman to the driving mechanism, and I therefore do not claim such invention.

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

In a sawing-machine, the combination, with the platform A, of the standard N, the adjustable swinging rod M, the saw O, the connecting-rod L, and the wheel K, provided with a series of pivot-apertures, b, different distances from the center, substantially as herein shown and described, and for the purpose set forth.

OTHO J. C. NORRIS.

Witnesses:

SILAS H. NORRIS,
HEZEKIAH EASTON.