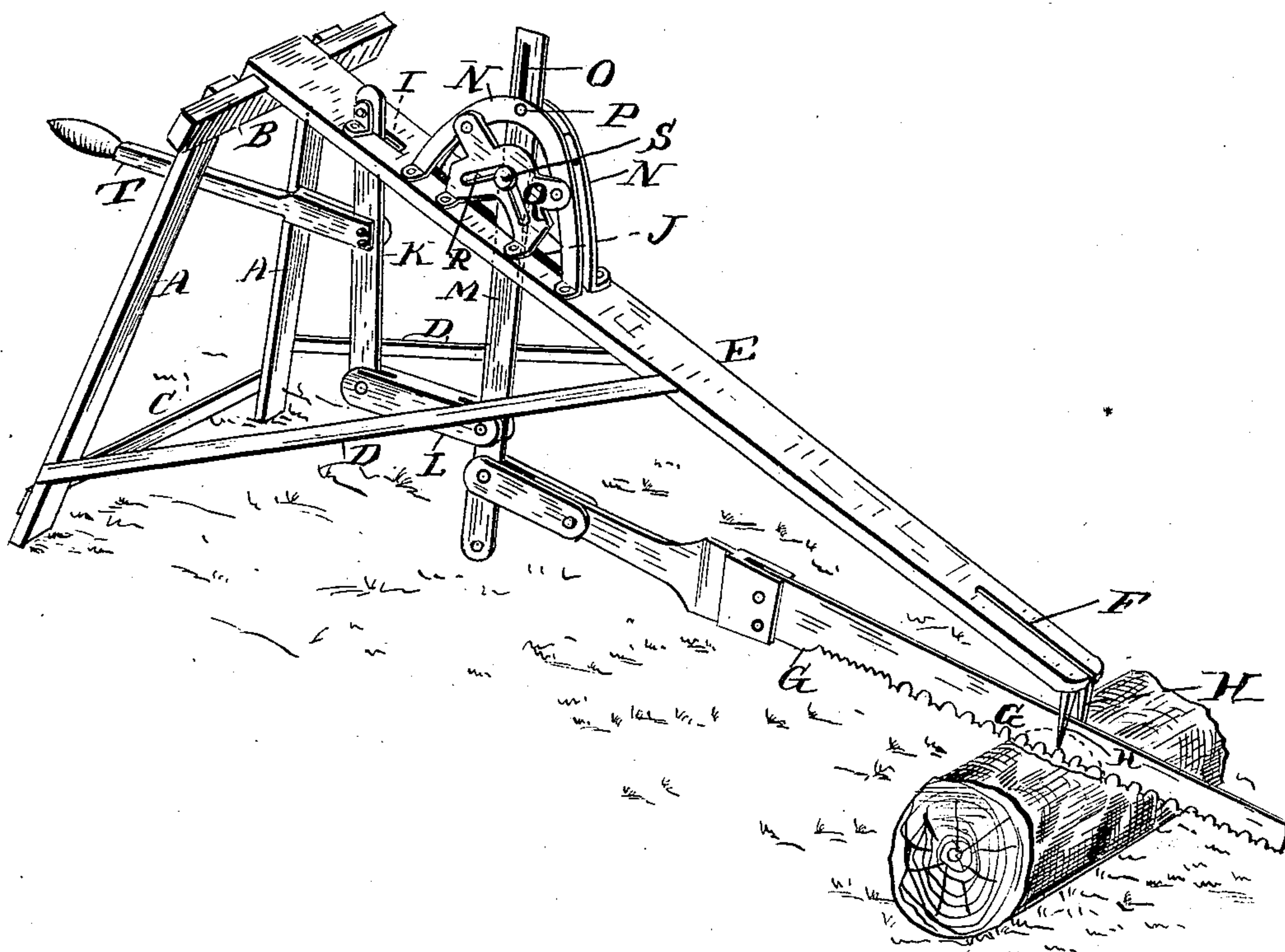


A. J. MERRITT.
Drag-Sawing Machine.

No. 226,533.

Patented April 13, 1880.



Witnesses:
Fred G. Dietrich

J. R. Littell,

Inventor:
Aaron J. Merritt,
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Attorneys.

UNITED STATES PATENT OFFICE.

AARON J. MERRITT, OF GREENSBURG, OHIO.

DRAG-SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 226,533, dated April 13, 1880.

Application filed February 3, 1880.

To all whom it may concern:

Be it known that I, A. J. MERRITT, of Greensburg, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Drag-Sawing Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to drag-saws; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

The annexed drawing represents a perspective view of my invention.

A A are the legs, connected by an upper cross-piece, B, and a lower cross-piece, C, from which braces D D extend forward to the main piece E of the frame. The front end of the latter is provided with a vertical longitudinal slot, F, for the saw G, and with hooks or fangs H, to catch in the log or timber to be sawed. The main piece E is provided with two slots, I J, in the rear one of which, I, is pivoted a lever, K, connected by a pivoted rod, L, with a lever, M, to the lower end of which the saw G is connected. The upper end of lever M passes upward through slot J and between guides N N, provided upon the upper side of main piece E above slot J. The lever M is provided with a slot, O, through which passes a pin or cross-piece, P, connecting the guides N.

Below the guides N, and adjoining the slot J, is arranged a plate, Q, provided with an an-

gular or Λ -shaped slot, R, in which is fitted a stud, S, upon the side of the lever M.

A handle, T, by which the machine is operated, is secured to the lever K, and extends rearwardly between the legs A A to a position convenient for the operator.

In operation an up-and-down movement of the handle T oscillates the lever K, from which a like movement is imparted to the lever M, by which the saw G is thus reciprocated.

Owing, however, to the presence of the Λ -slotted plate Q, in which the stud S of lever M works, the latter lever, in addition to its oscillating or vibrating movement, is compelled to move vertically up and down, thus compelling the rear end of the saw to follow the same movement. The result is, that a regular or straight reciprocating motion in a perfect horizontal plane is imparted to the saw, by which better work is more easily accomplished than by drag-saws of other patterns.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a drag-saw, the combination of the main piece E, provided with two longitudinal slots for the passage of pendulum-levers K and M, the latter provided with a pin and slot, engaging, respectively, a Λ -shaped slot and guide-pin in brackets N Q, with connecting-link L and operating hand-lever T, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

AARON J. MERRITT.

Witnesses:

THERON O. FRENCH,
MILTON B. HORTON.