(No Model.)

W. H. MELLOTT.

Wood Sawing Machine.

No. 242,016. **Patented May 24, 1881.**

Fig. 1.

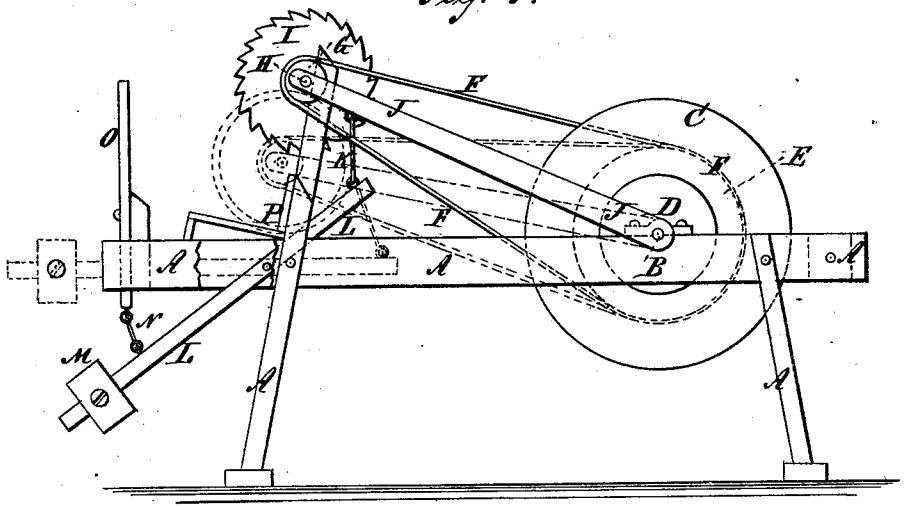
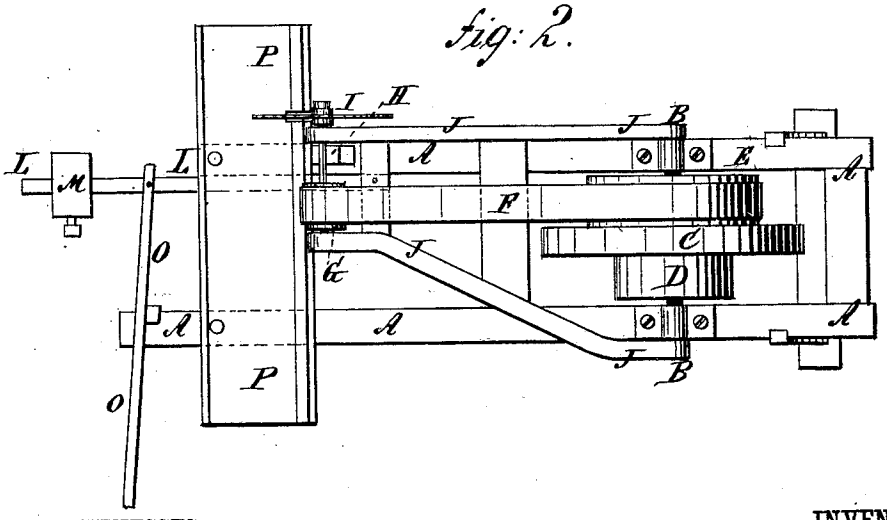


Fig. 2.



WITNESSES:

A. Schehl.

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INVENTOR:

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM H. MELLOTT, OF RAY'S HILL, PENNSYLVANIA.

WOOD-SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 242,016, dated May 24, 1881.

Application filed February 11, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. MELLOTT, of Ray's Hill, in the county of Bedford and State of Pennsylvania, have invented a new and useful Improvement in Wood-Sawing Machines, of which the following is a specification.

Figure 1 is a side elevation of my improvement. Fig. 2 is a plan view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to facilitate the sawing of wood and promote convenience in operating sawing-machines.

A represents the frame of the machine, to the rear part of the side bars of which are attached bearings, in which revolve the journals of a short shaft, B.

To the middle part of the shaft B is attached a fly-wheel, C, to give momentum and steadiness of motion to the saw.

To the shaft B, at one side of the fly-wheel C, is attached a pulley, D, to receive the driving-belt, and to the said shaft B, at the other side of the fly-wheel C, is attached a pulley, E, to receive the belt F, that drives the saw. The belt F also passes around a small pulley, G, attached to the mandrel H, that carries the saw I. The mandrel H revolves in bearings attached to the forward end of the frame J, the rear end of which is hinged to and rides upon the ends of the shaft B.

With the forward part of the hinged frame J is connected, by a short rod, K, or other suitable connection, the rear end of the lever L, which is pivoted to the forward part of the frame A.

To the forward arm of the lever L is attached a weight, M, of sufficient gravity to raise the saw I and the forward end of the frame J.

With the forward part of the lever L is connected, by a link, N, or other suitable connection, the end of a lever, O, which is pivoted to the forward end of the frame A in such a position that its other end can be readily grasped by the sawyer with his left hand, while his right hand controls the stick of wood being sawed. The stick of wood to be sawed is laid upon a triangular trough, P, attached transversely to the forward part of the frame A, in such a position that the saw I, when lowered, will come in contact with the upper side of the wood and pass down through it.

With this construction, when the stick of wood to be sawed has been adjusted in proper position, the sawyer lowers the saw I against it by operating the lever O, and when the stick has been sawed off, by removing the downward pressure from the lever O the balancing-weight M will raise the saw I out of the way, so that the sawyer can readily adjust the stick for another cut.

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

The combination, with the frame J, pivoted at its rear end to the drive-shaft, and carrying in front the shaft and saw H I, of the rod K, pivoted under the front end of frame, the weighted lever L M, the link N, and the vertical lever O, the latter projecting up in front of the saw and feed-trough, as shown and described, whereby the operator can raise or lower the saw as he feeds the sticks thereto.

WILLIAM HENRY MELLOTT.

Witnesses:
WILLIAM WESLEY CLARK,
ENOS WINK.