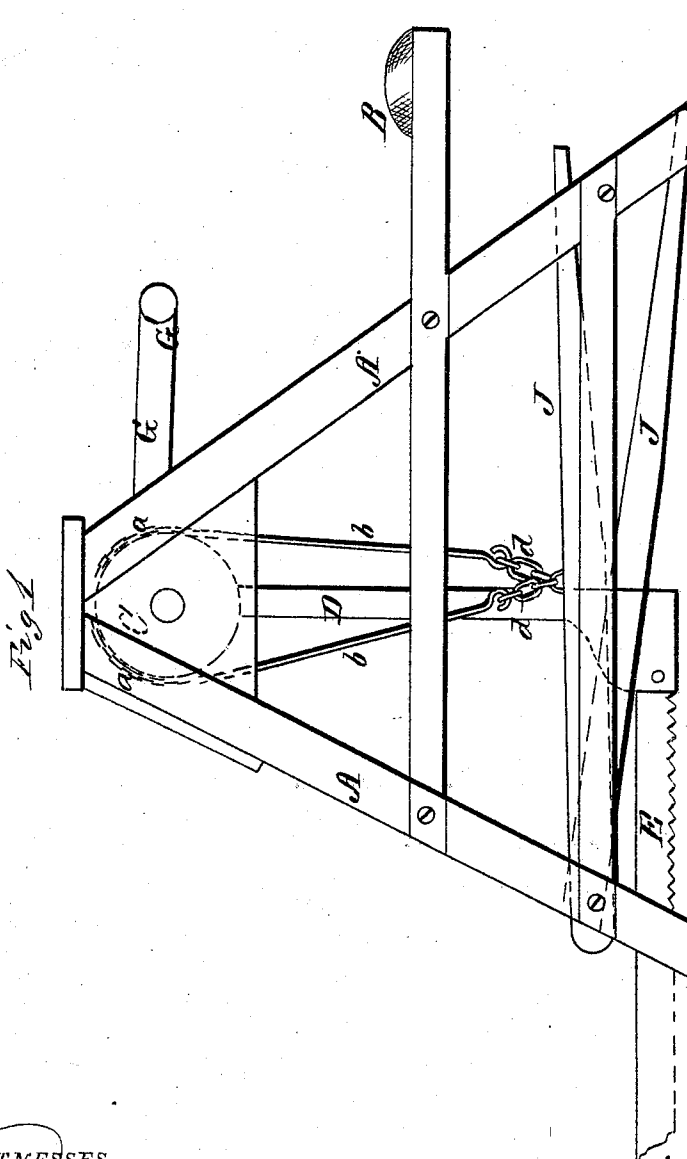


A. M. FRANKLIN, S. W. BROY & J. M. WYCKOFF
Sawing-Machines.

No. 150,555.

Patented May 5, 1874.



WITNESSES.

J. L. Curran
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By

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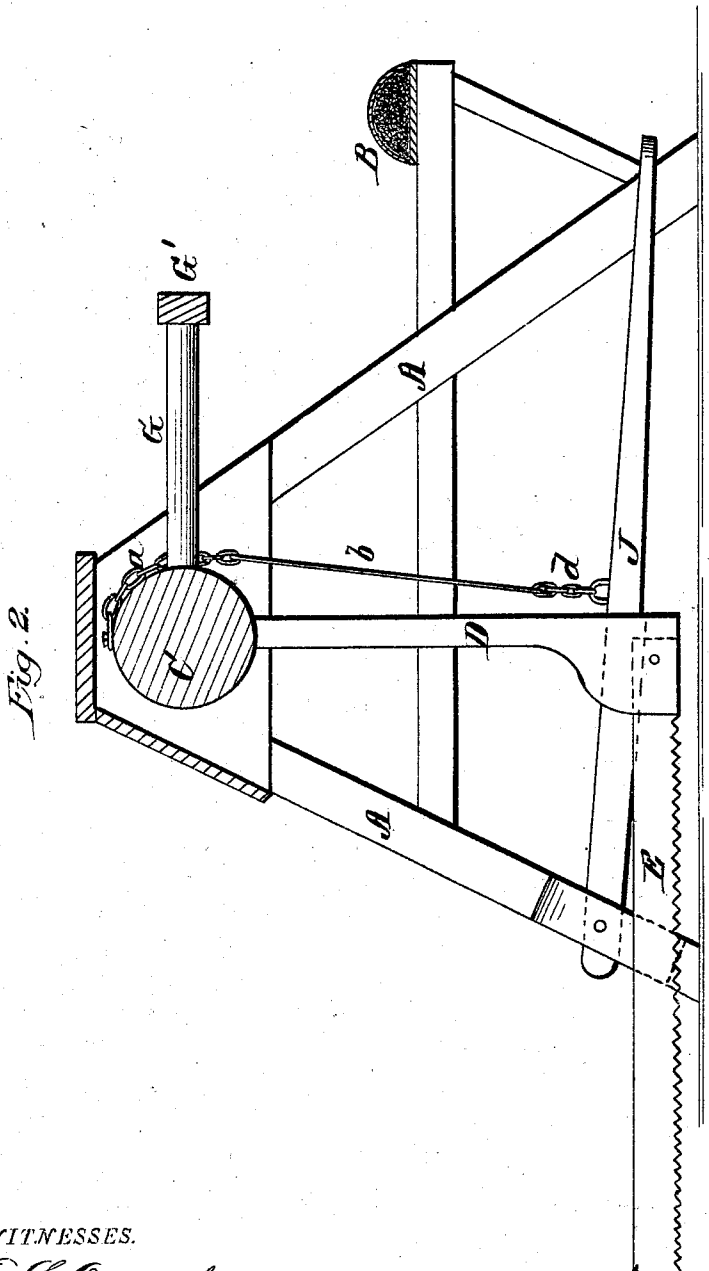
Alexander Watson

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UNITED STATES PATENT OFFICE.

AMASA M. FRANKLIN, SAMUEL W. BROY, AND JAMES M. WYCKOFF, OF
WOOL, ILLINOIS.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. **150,555**, dated May 5, 1874; application filed
April 4, 1874.

To all whom it may concern:

Be it known that we, AMASA M. FRANKLIN, SAMUEL W. BROY and JAMES M. WYCKOFF, of Wool, in the county of Pope and in the State of Illinois, have invented certain new and useful Improvements in Sawing-Machine; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a sawing-machine, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation, and Fig. 2 a longitudinal vertical section, of our machine.

A represents the frame of our machine, constructed in any suitable manner, and at one end of the frame is a seat, B, upon which the operator is to be seated while operating the machine. In the top of the frame A is mounted a drum or cylinder, C, from the lower side of which projects an arm, D, and in the lower end thereof is pivoted the end of the saw E. From the rear side of the cylinder C projects two arms, G, which are connected at their outer ends by means of a handle G'. On the top of the drum or cylinder C are secured two chains, *aa*, one at or near each end, which chains pass down upon opposite sides of the drum, and connect directly, or by intermediate rods *b* and links *d*, with two treadles, J J. These treadles are pivoted at the front end of the frame A, and extend backward under the seat B.

With this machine one man can saw as much as two men without it, and in many cases more, from the fact that it takes seventeen pounds to pull a cross-cut saw through a common log, and with this machine the weight is principally on the saw, or thrown on the saw by the various levers. The two principal

levers are the treadles J and the arms G. If the operator puts twenty-five pounds on the end of the treadle, which is a very light pressure, he will give seventy-five pounds on the saw, and on both treadles twice seventy-five or one hundred and fifty. The arms are worked on the same principle, but owing to the fulcrum being placed closer to the power it does not gain so much. The third and last lever is the chains *a* running up on an incline on the same principle as a movable pulley. With all these combined, the operator can at a low estimate easily produce two hundred pounds on the saw, when it only takes seventeen pounds to run it, and therefore cut the log easily and quickly, and with but little exertion on his part.

With this machine one man can cut any-size log, or any kind of timber, and if the timber is under water he can cut it without getting in the water.

One man can convey the machine to any place in the woods, set it down by the side of the log, place the saw upon the log, and go to work.

The operator can use his feet or his hands alone (while resting the other,) or use both at the same time.

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

The combination of the treadles J J, links *d*, intermediate rods *b*, and chains *a a*, with the cylinder C, provided with the arms G G, handle G', and pitman D, all constructed as described, and arranged in a frame, A, having a seat, B, at one end, substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 4th day of March, 1874.

A. M. FRANKLIN.
S. W. BROY.
JAS. M. WYCKOFF.

Witnesses:

SAM. BRADSHAW,
JOHN O. WILLIAMSON.