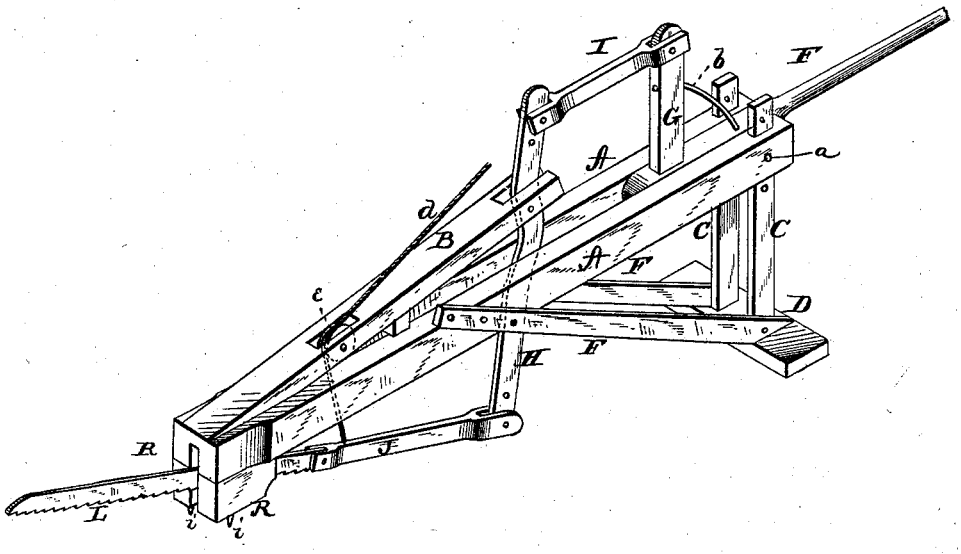
J. ALEXANDER.
Drag-Sawing Machine.

No. 203,692. Patented May 14, 1878.



WITNESSES
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UNITED STATES PATENT OFFICE.

JAMES ALEXANDER, OF CHERRY FORK, OHIO.

IMPROVEMENT IN DRAG-SAWING MACHINES.

Specification forming part of Letters Patent No. **203,692**, dated May 14, 1878; application filed April 15, 1878.

To all whom it may concern:

Be it known that I, JAMES ALEXANDER, of Cherry Fork, in the county of Adams, and in the State of Ohio, have invented certain new and useful Improvements in Sawing-Machines; 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 my invention consists in the construction and arrangement of a crosscut-sawing machine for sawing logs, wood, &c., as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of my machine.

A A represent two parallel side beams, the front ends of which are connected together, and have one end of a plank or bar, B, fastened between them. This plank or bar B extends rearward over the side beams A A a suitable distance, and is elevated above them on an incline by the interposition of a block, as shown. In the rear end of each beam A is a mortise for the passage of a vertical leg, C, the lower ends of the two legs being firmly secured to a foot or sill, D. Two inclined braces, F F, are also attached to said foot, and extend forward and are fastened to the outer sides of the beams A A. The ends of the legs C C and braces F F are perforated, as shown, so that the frame can be adjusted, as required, to stand at any desired height. The legs C C are fastened in the beams A A by means of a pin or bolt, *a*, and this pin or bolt pivots a lever, F, between the two side beams. From the inner end of this lever extends an arm, G, at right angles, and braced by means of a rod, *b*, the upper end of said arm being, by a rod or bar, I, connected with the upper end of a lever, H, pivoted in the forked rear end of the bar B. In the lower end of the lever H is pivoted the saw-arm J, to which the saw L is secured. At the front end, on the under side of each beam A, is secured a block, R, with teeth or points *i*, for fastening on top of the log to be sawed.

By this machine the saw may be operated with ease and dispatch.

A cord, *d*, is attached to the saw-arm J, which cord passes upward over a roller, *e*, in the bar B, and then rearward to the operator, so that he can raise the saw after the log is off, or, in starting to saw a log, let the saw down lightly at first. The saw-arm can also be adjusted up and down in the lower end of the swinging lever H, to cause it to run level, or nearly so.

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

1. In a sawing-machine, the frame consisting of the parallel beams A A, having their front ends connected together, and provided with the blocks R, having teeth or points *i*, the adjustable legs C C, foot or sill D, and adjustable braces F F, substantially as and for the purposes herein set forth.

2. In a sawing-machine, the combination, with the adjustable frame A C D F, constructed as described, of the saw and saw-arm, the swinging lever H, connecting-bar I, and operating-lever F, with arm G, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of March, 1878.

JAMES ALEXANDER.

Witnesses:

WM. CRISSMAN,

H. C. KENNEDY.