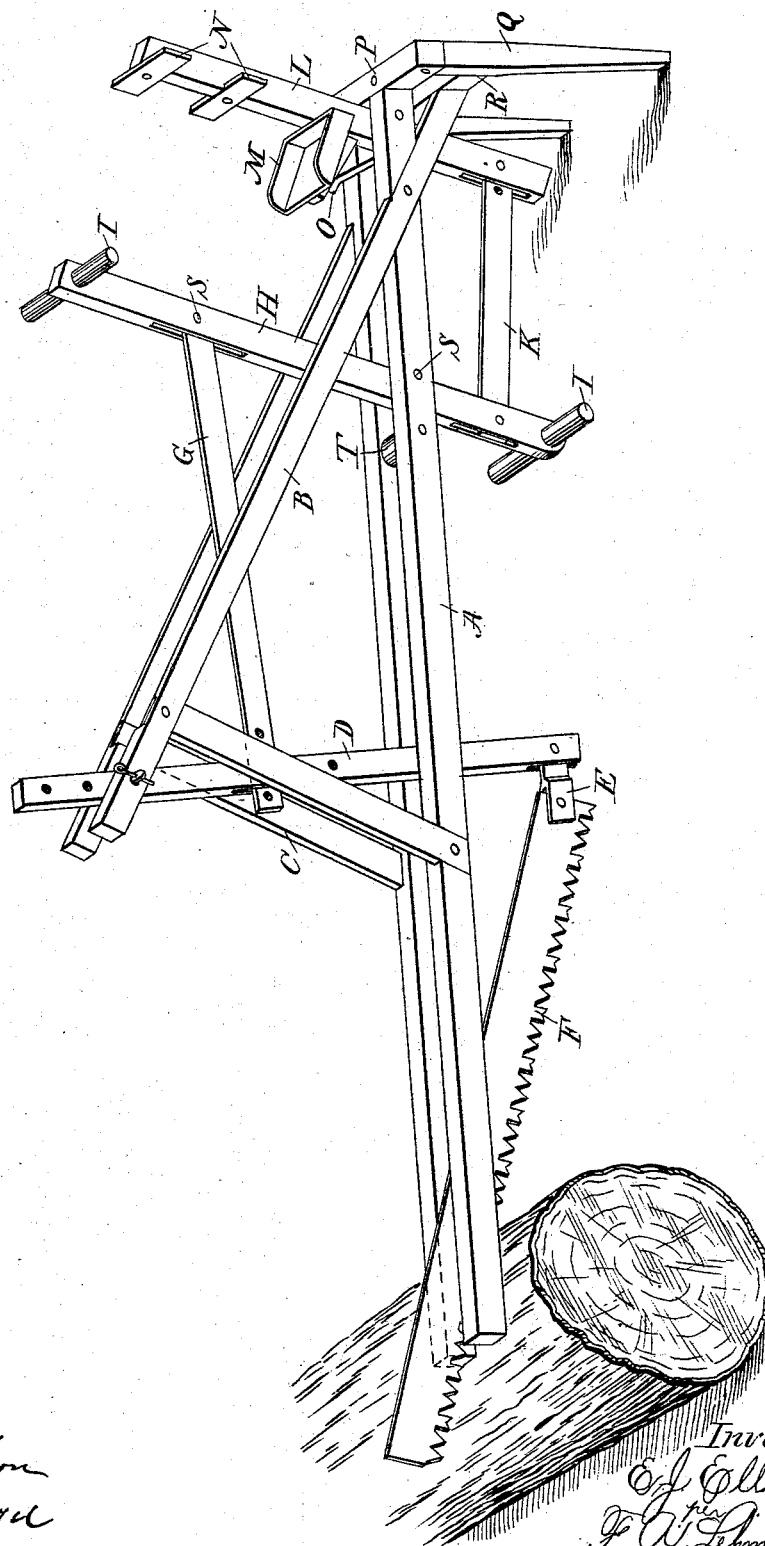


(No Model.)

E. J. ELLIS.
FIRE WOOD DRAG SAW.

No. 263,153.

Patented Aug. 22, 1882.



Witnesses.
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UNITED STATES PATENT OFFICE.

EDWIN J. ELLIS, OF WASHINGTON, WOOD COUNTY, OHIO.

FIRE-WOOD DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 263,153, dated August 22, 1882.

Application filed April 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWIN J. ELLIS, of Washington township, Wood county, Ohio, have invented certain new and useful Improvements in Wood-Sawing Machines, of which the following is a specification.

My invention relates to an improvement in sawing-machines; and it consists in the combination of a suitable braced frame, suitable pivoted levers, and connecting-rods, whereby the operator is enabled to use both hands and feet in operating the saw, as will be more fully described hereinafter.

The accompanying drawing is a perspective of a machine embodying my invention.

A represents two parallel beams, which have their front ends spiked upon the log which is to be sawed and their rear ends secured to the cross-bar P, which is supported by the legs, Q. These beams have their front ends separated by the piece T, which is interposed between them. These beams are braced by the braces B, which extend diagonally upward at their front ends, and are supported by the uprights C, and which braces B have their rear ends secured to the cross-piece R, placed between the legs Q. Pivoted between the front ends of these braces B is the suspended lever D, to the lower end of which the saw F is loosely connected by the coupling E. Through the upper end of this lever D is made a series of holes, so that the pivot on which the lever swings can be changed from one to the other, and thus regulate the distance the saw shall be moved at each stroke. Near the center of this lever is another series of holes for the purpose of adjusting the front end of the connecting-rod G up and down.

The rod also has a series of holes made through it, so that it can be readily adjusted according as a longer or shorter stroke of the saw is desired. The rear end of the rod G is pivoted to the lever H near its upper end, which lever is pivoted at S in the frame A, and is provided with the hand and foot holds I at its ends. Pivoted to this lever H near its lower end is the connecting-rod K, which has its rear end pivoted to the lever L, upon which the seat M and seat-brace O are secured. To the upper end of the lever L are secured the pieces N, which serve as rests for the back. A person sitting on the seat can use both hands and feet in working the saw back and forth.

Having thus described my invention, I claim—

1. In a sawing-machine, the combination of the seat secured to the pivoted rocking lever L, the connecting-rods G K, the pivoted lever H, provided with the projections I for the hands and feet, and the lever D, pivoted at its upper end in the side timbers, B, and carrying the saw, substantially as shown.

2. The combination, in a sawing-machine, of the side timbers, B, the lever D, pivoted at its upper end and provided with a series of holes both at its upper end and center, with the connecting-rod G, having a series of holes in its front end, levers H L, pivoted in the frame, as described, and rod K, connecting said levers, substantially as set forth.

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Witnesses:

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