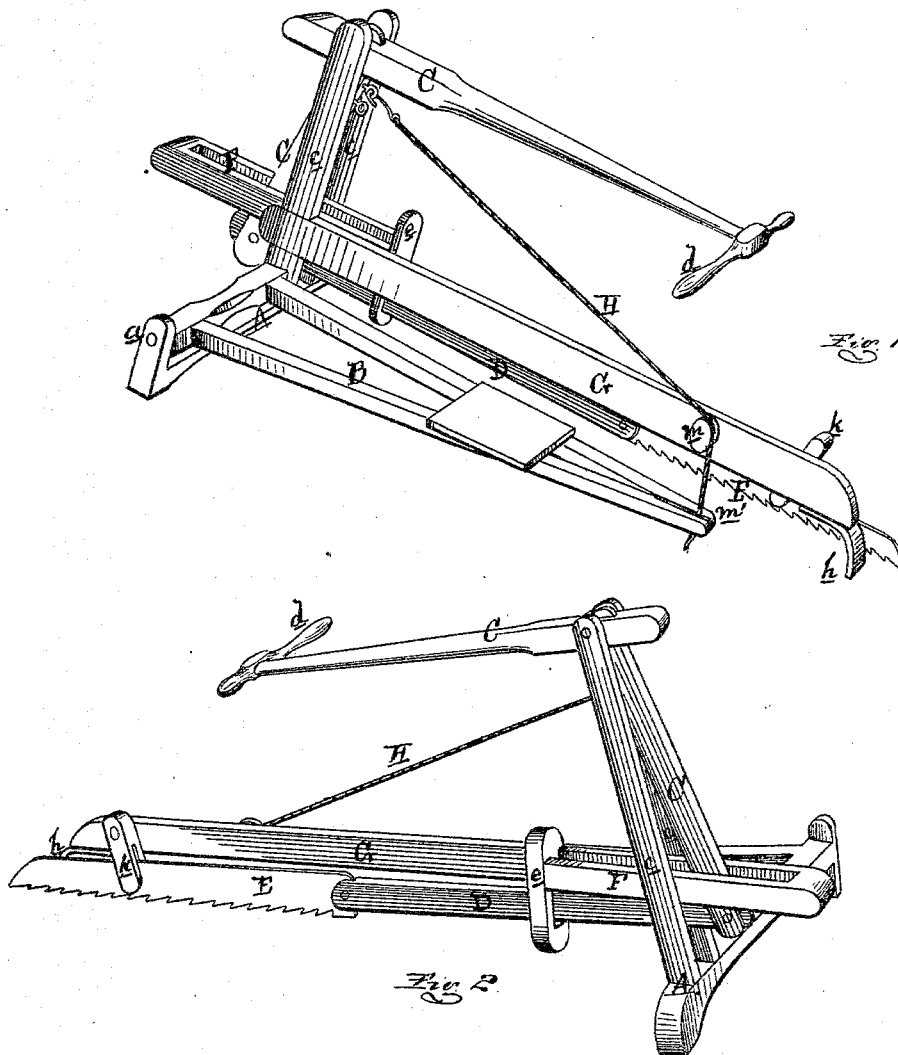


JOHN HARRIS.

Improvement in Sawing Machines.

No. 115,848.

Patented June 13, 1871.



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UNITED STATES PATENT OFFICE.

JOHN HARRIS, OF GRAND LEDGE, MICHIGAN.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. 115,848, dated June 13, 1871.

To whom it may concern:

Be it known that I, JOHN HARRIS, of Grand Ledge, in the county of Eaton and State of Michigan, have invented a new and useful Improvement in Drag-Saws; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective from the front. Fig. 2 is a similar view from the rear and opposite side.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improvement in the construction of "lazy" or drag saws, to be driven by man-power, so arranged as to be economical in cost and efficient in operation. The invention consists in the new and novel construction and arrangement of the various parts, as more fully hereinafter described.

In the accompanying drawing, A represents a frame which supports the working parts of the device. B is also a frame, one end of which is pivoted to the bed-plate of the frame, as shown at *a*, and upon it is secured the platform *b*, upon which the operator stands. A compound or bell-crank lever, C, is pivoted between the uprights *c* of the frame. One end of this lever is provided with a handle, *d*, so arranged as to be within reach of and worked by the operator standing upon the platform *b*. The opposite end of this compound lever is pivoted to the pitman D, to the opposite end of which the saw E is secured in any convenient and desirable manner. This pitman works

within and between the vibrating guides F, and they are pivoted, at or near the center of their length, between the uprights *c* of the frame, and the guides are connected together by a suitable head, *e*. G is a bearing-bar, rigidly secured at one end to the frame A, and at the opposite ends it is provided with a hook or partially-curved band *h*. In rear of the hook this bar is also provided with a notched bearing, *k*, which rides upon the back of the saw E and acts as a guide for the outer end thereof. Upon this bar there is also secured a small sheave or block, *m*. A line or rope, H, is secured at *m'*, and, thence passing over the sheave or block *m*, is secured at its opposite end to the end of the frame B in such a manner that the weight of the operator upon the platform will compel the bar to rest upon and hold the log or piece of timber being sawn, the outer end of the platform being suspended from the rope or line, as shown.

The device being placed in position for use, the operator, standing upon the platform, alternately depresses and elevates the lever by means of the handle, thereby giving a horizontal reciprocating motion to the saw.

What I claim as my invention, and desire to secure by Letters Patent, is—

The platform-frame B, provided with platform *b*, line or rope H, and bearing-bar G, in combination with frame A, lever C, pitman D, and guides F, constructed and arranged substantially as and for the purposes set forth.

JOHN HARRIS.

Witnesses:

IRA W. ENOS,
S. A. ROBINSON.