J. ACKLEY.

SAWING-MACHINE.

No. 183,880. Patented Oct. 31, 1876.

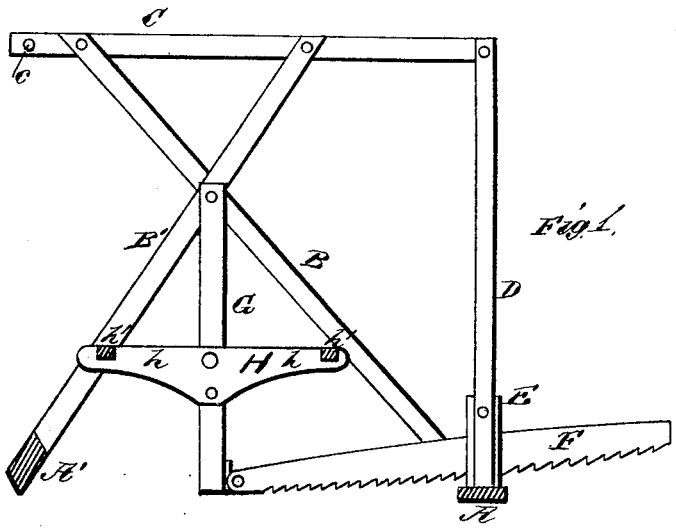

Fig. 1.

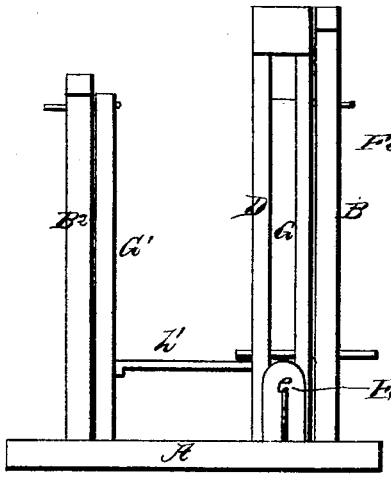

Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN ACKLEY, OF MARTINSBURG, OHIO.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. **183,880**, dated October 31, 1876; application filed September 9, 1876.

To all whom it may concern:

Be it known that I, JOHN ACKLEY, of Martinsburg, in the county of Knox and State of Ohio, have invented a new and valuable Improvement in Sawing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my machine, and Fig. 2 is a front elevation of the same.

This invention consists in a device for operating a crosscut-saw, substantially as hereinafter described and claimed.

In the annexed drawing, A A′ designate the sills or bottom pieces of my device, which rest upon the ground and sustain the weight of the remaining parts of the frame. B B′ designate two crossed bars or side supports, which are connected, respectively, at their lower ends to sills A A′, near one end thereof. The upper ends of said crossed side supports are rigidly secured to a horizontal beam or top piece, C, which is provided on its rear end with an inwardly-extending handle, *c*. Said top piece C is rigidly connected in front to the top of a standard, D, which is rigidly connected at its bottom to front sill A. Secured to said standard, near the bottom thereof, is a detachable block, E, provided with a vertical slot, *e*, through which reciprocates a crosscut-saw, F, operated by a swinging frame, hereinafter described. To the opposite ends of sills A A′ are, respectively, secured two inclined and crossed side-supporting bars, B^2 B^2, corresponding substantially to side supports B B^1, and forming the other side of the supporting-frame. One of said opposite side supports is shown in Fig. 2, front view. At the intersection of side supports B B^1 is pivoted thereto the upper end of a hanging arm, G, and at the corresponding opposite intersection of bars B^2 B^2 is pivoted thereto the upper end of a corresponding hanging arm, G′. Between said hanging arms G G′, and oscillating therewith, is secured a swinging frame, H, composed of longitudinal pieces *h h*, and cross end pieces *h′ h′*. To the lower end of hanging arm G, crosscut-saw F is pivotally connected so as to have horizontal longitudinal reciprocating motion when said hanging arm is made to oscillate backward and forward.

The operation of the device is as follows: The operator stands upon the frame H, holding handle *c* to steady himself, and by shifting his weight alternately forward and backward thereon, after the usual manner of swinging, he causes the hanging arm G to oscillate backward and forward with swinging frame H, thereby operating the crosscut-saw.

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

The combination of side supports B B^1 B^2 with hanging arms G G, swinging frame H, saw F, and slotted detachable block E, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN ACKLEY.

Witnesses:

S. B. DODD,

DAVID LAWMAN.