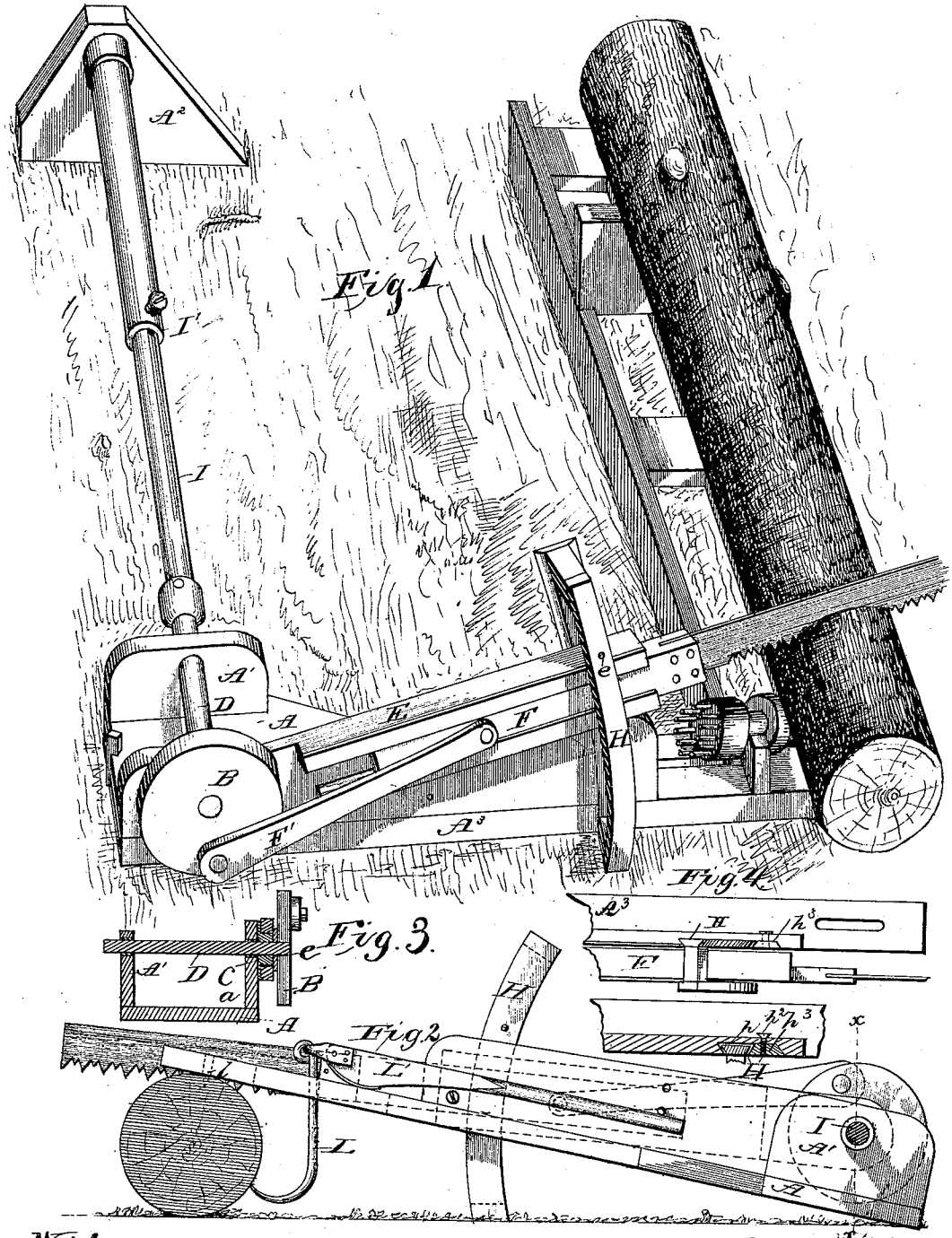
L. M. COMSTOCK.

Drag Saw Machine.

No. 233,731. Patented Oct. 26, 1880.



Witnesses:

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UNITED STATES PATENT OFFICE.

LEVI M. COMSTOCK, OF MILWAUKEE, WISCONSIN.

DRAG-SAW MACHINE.

SPECIFICATION forming part of Letters Patent No. 233,731, dated October 26, 1880.

Application filed February 24, 1880.

To all whom it may concern:

Be it known that I, LEVI M. COMSTOCK, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Drag-Saw Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to portable wood-sawing machines; and it consists in the device hereinafter described.

In the drawings, Figure 1 is a perspective view of my machine in position to work with a carriage at the roll-pile. Fig. 2 is a side view of my device in position for operating upon a tree just as it has fallen, and without a carriage. Fig. 3 is a cross-section on line *x x*, Fig. 2; and Fig. 4 illustrates the device for clutching the supporting-frame in the bed-frame.

A is the frame, which I provide with a bracket, A′ and *a*, through which the shaft D that drives the eccentric or driving wheel B passes.

A hub-bearing, C, surrounding the shaft D and attached to bracket *a*, serves as a pivot for the rear end of a saw-guide, E, which is provided with a T-groove for the handle F of the saw to work in. This handle is reciprocated by a pitman, F′, pivoted to the drive-wheel.

The bed-frame A^3 is provided with a slightly curved half-dovetailed groove, *h*, in which the dovetailed edge H′ of the curved support H is held by a wedge-shaped cleat, h^3, and screw h^2, so that the cleat may be drawn tight against the dovetailed edge H′ or thrown off from it to permit a proper adjustment of the bed-frame when a log is to be placed in position and secured. Saw-guide E plays up and down in this supporting-frame, and the frame is perforated at *e* to receive a pin for holding the saw up and out of the way while the log is being adjusted to the machine, or vice versa.

A telescoping tumbling-rod, I I′, the two sections of which are suitably keyed to each other, communicates motion from the horse or other power to the shaft, any suitable connections being used between the two.

Operation: In sawing logs at the roll-pile one end of the log to be sawed is placed upon a suitable carriage, and the other, which is nearest the saw, rests upon an ordinary jacking-roller, as shown in Fig. 1. In sawing a tree as it has fallen the machine is placed in position—that is, with the saw at right angles to the tree. The bed having been elevated and carried over the tree, so that its end rests upon it, where it is securely fastened by means of the lever and cant-hook L′ L and a dog, *l*, projecting down from the bed, the saw may now be started, and when a section has been taken off the frame may be moved up toward the bracket or bridge-tree A^2 a given distance and the parts resecured, and this may be continued until the section I has passed entirely into the section I′. At this juncture, if the tree has not been consumed, all that is necessary is to shorten the connection between the machine and power and move the bracket off until the section I of the rod has been drawn out of I′ as far as the key will permit; then secure the parts to the ground again and sawing may be resumed.

Having thus fully described my invention, what I claim is—

1. In a portable drag-sawing machine, the combination of the bed-frame and driving-shaft journaled thereon with the curved frame H, adjustably connected to the bed-frame, and the saw-guide pivoted on the driving-shaft and passing through the frame H, so as to be steadied and guided thereby, substantially as and for the purpose specified.

2. In a portable drag-sawing machine, the combination, with the bed-frame and a saw-guide pivoted on the driving-shaft, of the curved frame or support H, through which the saw-guide passes, said curved frame or support having a dovetailed cleat which fits within the groove *h* of the bed-frame and is held by a clamping-cleat, h^3, and a set-screw, whereby the support and guide H is rendered adjustable with relation to the bed-frame, substantially as and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of February, 1880.

LEVI M. COMSTOCK.

Witnesses:

JAMES G. FLANDERS,

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