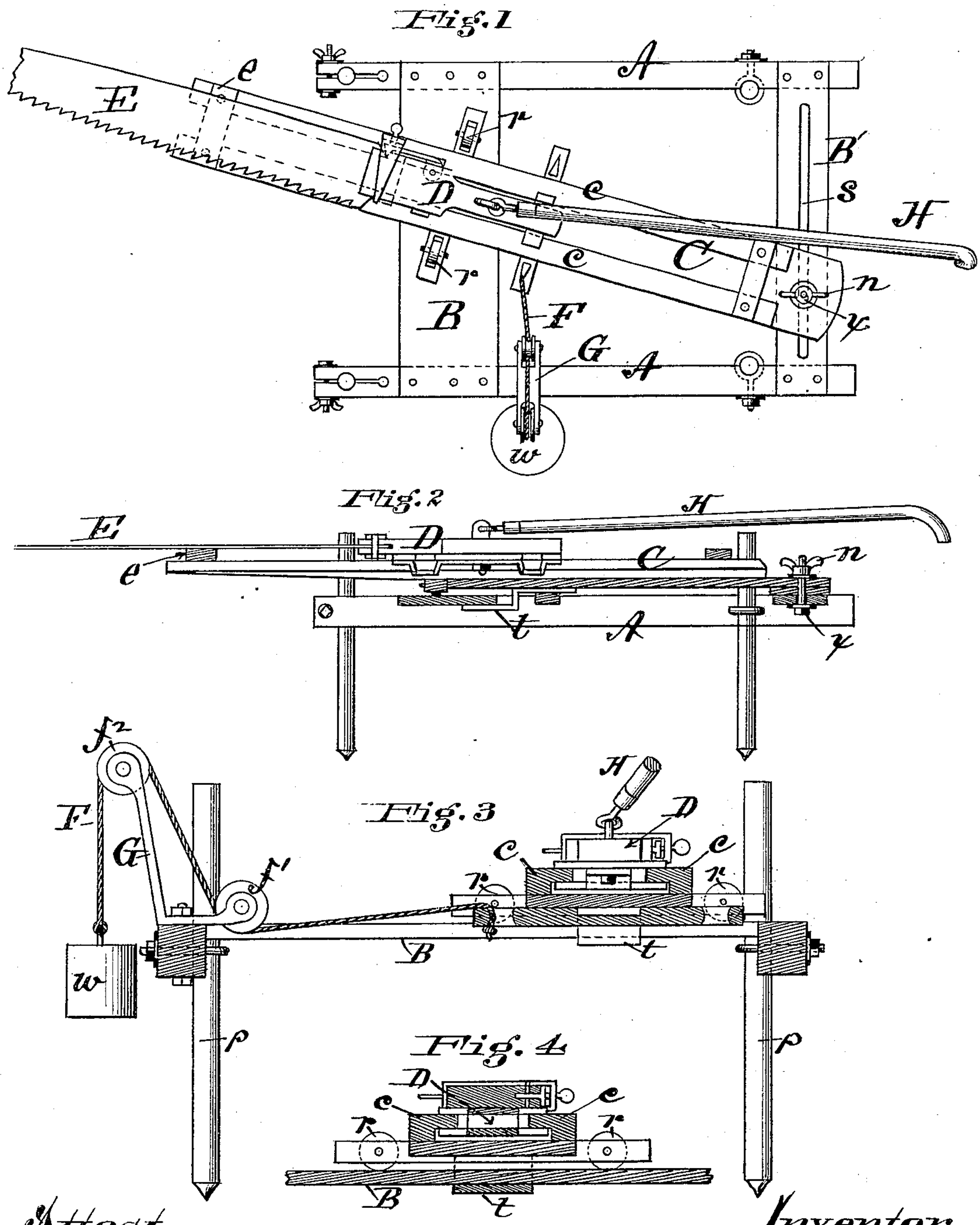
(No Model.)

J. AUGSPURGER.

SAWING MACHINE.

No. 246,448. Patented Aug. 30, 1881.



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UNITED STATES PATENT OFFICE.

JOHN AUGSPURGER, OF TRENTON, OHIO.

SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 246,448, dated August 30, 1881.

Application filed May 20, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN AUGSPURGER, a citizen of the United States, residing at Trenton, Butler county, Ohio, have invented new and useful Improvements in Sawing-Machines, of which the following is a specification.

My invention relates to improvements in sawing-machines for cutting standing timber, its object being to provide a practicable, efficient, and economical machine for the purpose, to be operated by manual power and be easily transported from place to place.

My invention is embodied in mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of my apparatus complete; Fig. 2, a longitudinal sectional elevation of the same; Fig. 3, a cross-sectional elevation of the same, and Fig. 4 a detail cross-section through the cross-head and saw-clamp.

Similar letters of reference indicate similar parts in both specification and drawings.

Referring to the drawings to illustrate the following description, A A designate the longitudinal bars, and B B′ the cross-bars, of a rectangular frame, which is supported adjustably upon four posts, *p*, by suitable clamps and set-screws in any convenient manner. Upon the supporting-frame a guideway, C, is arranged to rest and be adjustable horizontally in the following manner: It is held by a pivot-bolt, *x*, passing vertically through near its rear end, and through a slot, *s*, extending longitudinally through the cross-bar B′, from end to end, between the bars A. By this construction the guideway is adjustable from side to side and held pivotally by a thumb-nut, *n*, upon its pivot-bolt in any desired position. The forward end of the guideway is free to move laterally on rollers *r*, journaled in cleats or brackets attached to the guideway C, the cross-bar B being sufficiently wide to form a support and roadway for the rollers. A tongue, *t*, projects forward beneath the cross-bar B, to hold the guideway to the cross-bar in its lateral movements.

The guideway consists of two parallel guide-rails, *c*, mounted upon a supporting-piece, between and upon which guide-rails moves a cross-head, D, constructed in the ordinary manner with side cleats projecting over above and below the guide-rails, to hold and guide the cross-head. A handle, H, is attached by a hook-and-eye connection to the cross-head for its manipulation, and to the forward end of the cross-head the saw E is secured in any convenient manner, riding upon a supporting-block, *e*, or roller secured upon the guideway C at its front end. To the guideway C is also attached a rope or chain, F, which is carried under a sheave, f', and thence over a sheave, f^2, journaled in a double-armed bracket, G, secured upon one of the side bars, A. The bracket G is secured in position removably upon either of the bars A, as may be required, and by means of a weight, *w*, at the outer end of the rope or chain the saw-guideway and the saw are drawn to that side, the fall of the weight being provided for by the upwardly-extended arm of the bracket G.

The operation of my invention is as follows: The frame being placed on the ground in proper relation to the tree to be cut down and adjusted to the required height, the guideway is adjusted by means of the pivot-bolt *x* to the position required, the bracket G attached to the proper side bar, A, and the rope and weight adjusted in position to hold the saw to its work. Then by means of the handle H the operator reciprocates the saw, which, by adding more or less weight, is caused to cut as may be desired.

The saw-guideway may be adjusted at will during the progress of the work, to suit the cut desired.

Having described my invention, I claim and desire to secure by Letters Patent—

1. In a drag-sawing machine, the combination, with a supporting frame-work, of a laterally-swinging saw-guideway, sustained by the frame-work, and carrying a sliding cross-head to which the saw is connected, the rear pivoted end of said guideway being adjustable transversely across the supporting frame-work, substantially as and for the purposes described.

2. In a drag-sawing machine, the combination of a supporting frame-work having a transversely-slotted portion, *s*, with a laterally-swinging saw-guideway, sustained by the frame-work, and carrying a sliding cross-head to which the saw is connected, the rear end of

said guideway being pivoted on a bolt or pin, which is transversely adjustable in the slotted portion of the frame-work, substantially as and for the purpose described.

3. In combination with the guideway C, the rollers *r*, cross-bar B, pivot-bolt *x*, and slotted cross-bar B′, substantially as specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JOHN AUGSPURGER.

Witnesses:
L. M. HOSEA,
C. P. DOOLITTLE.