

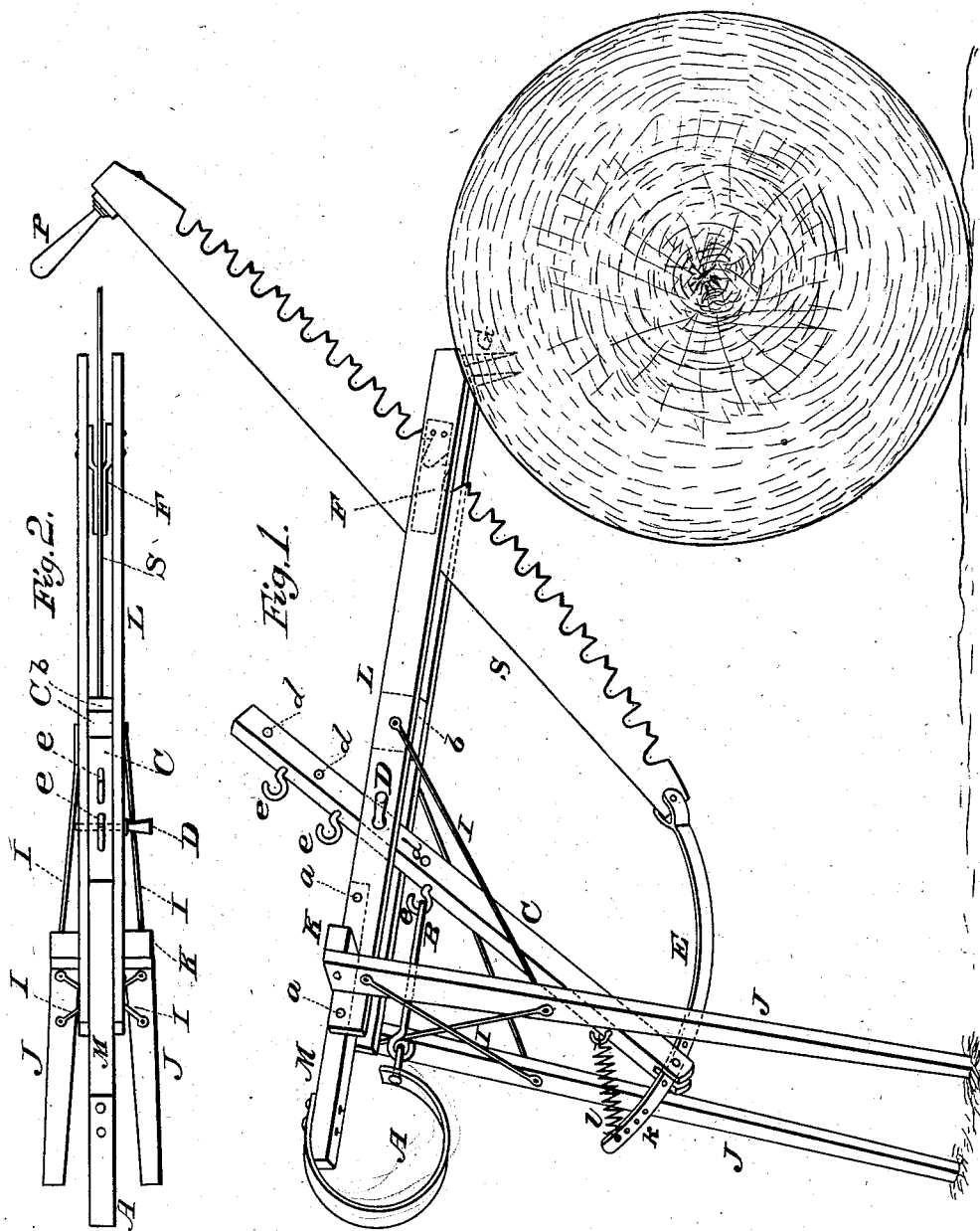
No Model.)

T. LOWDEN.

DRAG SAW.

No. 259,879.

Patented June 20, 1882.



WITNESSES

E. H. Bates
Philip L. Massi.

INVENTOR

Thos Lowden.
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UNITED STATES PATENT OFFICE.

THOMAS LOWDEN, OF LOWELL, MICHIGAN.

DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 259,879, dated June 20, 1882.

Application filed April 8, 1882. (No model.)

To all whom it may concern:

Be it known that I, THOMAS LOWDEN, a citizen of the United States, and resident of Lowell, in the county of Kent and State of Michigan, have invented a new and valuable Improvement in Saws; 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 perspective view of my improved saw, and Fig. 2 is a top or plan view of the same.

This invention has relation to spring sawing-machines or machines to facilitate the use of crosscut-saws; and it consists in the construction and novel arrangement, in connection with the standards, frame, and C-spring secured to the rear end thereof, of the adjustable lever, its pivot-bolt, and series of hooks for the connecting-rod, the pitman, and the spiral spring connecting the rear extension of the pitman to the lever, all as hereinafter set forth.

In the accompanying drawings, the letters J J indicate the standards which support the main bars L L of the frame. These bars L L are connected by a cross-bar, K, and by bolts a, which pass through the middle block, b, and the rearwardly-extended spring support or rest M.

A designates a strong C-spring which is bolted to the rest M, and curving forward under the same is provided with an eye, e, at its front end. C represents the saw-lever, having a series of bolt-holes, d, and back of the same a series of hooks, e.

D is the pivot-pin which connects the lever to the bars L of the frame, said pivot-pin passing through one of the bolt-holes d.

The spring A is connected to the lever C by means of the connecting-rod B, which engages the eye e and one of the hooks e.

To the rear end of the saw S is pivoted the pitman E, which connects the saw to the lower end of the lever C, and the rear end of the pit-

man is extended at k, and is provided with a rear spring, l, connected to the extension and to the lever C above the same, and serving to hold the saw down to its work and to prevent jumping.

G G indicate the spikes in the front ends of the frame-bars L L, whereby the machine is attached to the log.

F represents a plate, secured by its front end to the inside of one of the bars L and having its rear portion free, forming a catch or rest for the saw when not in use.

Braces I I serve to hold the main bars and standards of the frame in proper relative position.

The saw is operated by means of the handle P at its end, the saw being drawn forward through the log and through the lever C, extending the spring A, which, reacting, effects the reverse movement of the saw.

The saw may be adjusted lower by passing the pivot-bolt through one of the bolt-holes, and the connection B can at the same time be connected to a corresponding upper hook on the lever.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The sawing-machine consisting, in connection with the standards and frame, of the C-spring secured to the rear end of the frame, the adjustable lever, its pivot-bolt, and series of hooks, the connecting-rod between the lever and spring, the pitman, and the spring connecting the rear extension of the pitman to the lever, substantially as specified.

2. In a sawing-machine, the combination, with the main spring A and saw S, of the adjustable saw-lever C and the adjustable rod B, connecting the main spring to the saw-lever, substantially as specified.

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

THOMAS LOWDEN.

Witnesses:

EUGENE A. SUNDERLIN,
WILLIAM S. COLEMAN.