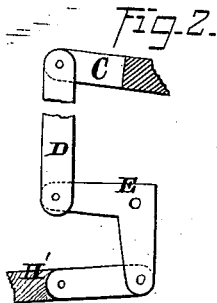
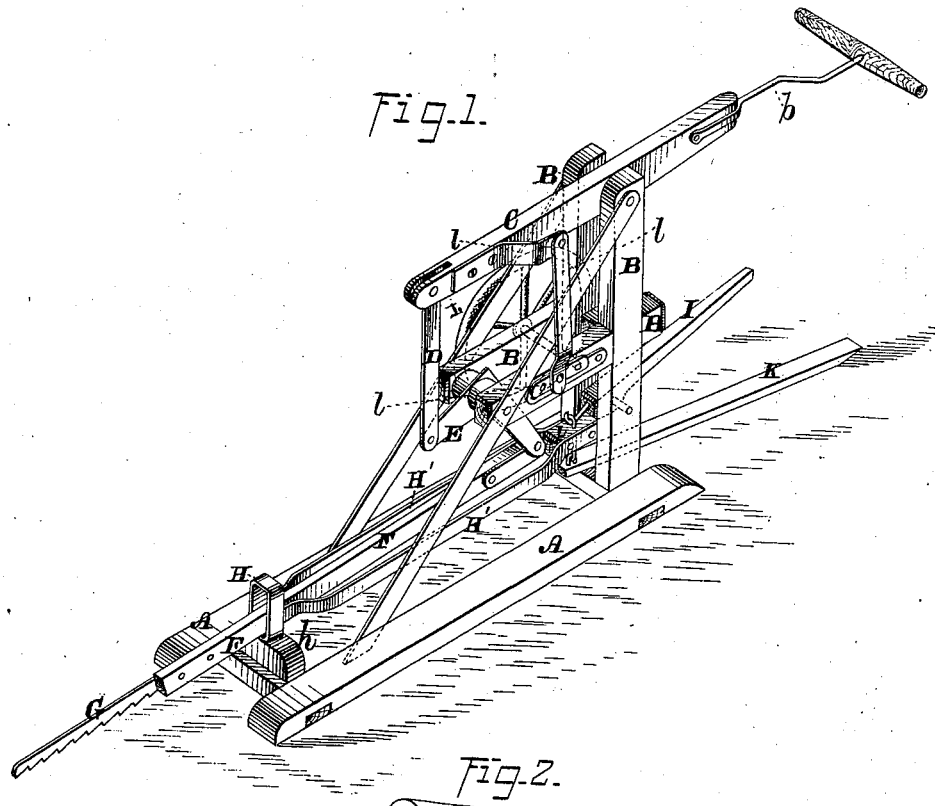


E. F. WILCOX.
Sawing-Machine.

No. 206,512.

Patented July 30, 1878.



WITNESSES:

Gas. E. Hutchinson.
Gas. H. Lange.

INVENTOR.

Albert F. Wilcox.
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Attys

UNITED STATES PATENT OFFICE.

ELBERT F. WILCOX, OF HOOPESTON, ILLINOIS.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. **206,512**, dated July 30, 1878; application filed December 26, 1877.

To all whom it may concern:

Be it known that I, ELBERT F. WILCOX, of Hoopeston, in the county of Vermillion and State of Illinois, have invented certain new and useful Improvements in Sawing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved sawing-machine; and Fig. 2 is a detached view thereof, partly in side view and partly in section.

Like parts in the two figures are designated by like letters.

This invention appertains to certain improvements in sawing-machines; and it consists of a lever fulcrumed in a supporting-frame, or between uprights, and connected to a knee or right-angled lever at its angle or knee, and connected to a sliding bar carrying the saw, or to the saw-handle; and, secondly, of a guiding device for the saw or its sliding bar, substantially as hereinafter more fully set forth.

In the annexed drawing, A A refer to a horizontal frame or base, upon which are secured uprights or a frame, B B. C is a lever, fulcrumed between the upper ends of the uprights B B, and provided with a handle, *b*, for obtaining an increased leverage and for operating the said lever. This lever is connected, by a bar, D, to a right-angled or knee lever, E, fulcrumed at its angle or knee upon a pivot secured between two arms of the uprights or frame B B, or in any other convenient manner.

The lower arm of the lever E is connected to a sliding bar, F, carrying the saw G, or directly to the saw-handle.

The sliding bar D or saw-handle is guided in an eye or loop, H, resting upon a support, *h*, fastened to the foundation-frame A A. This eye or loop H is provided with arms or plates H' H', reaching back and pivoted between the uprights B B, the object of which is to permit of the loop or eye H being raised or lowered to enable the saw to be adjusted to its work or lifted therefrom.

I is a hand-lever, fulcrumed between the uprights B B, and hooked or otherwise connected to the rear connecting-piece *i* of the guide-arms H' H', by which the vertical adjustment of the said guide and its arms may be effected.

K is a foot lever or bar, hooked or otherwise connected to the lower side of the guide-arm connecting-piece *i*, to apply downward pressure to the sliding bar D or saw-handle, in order to sink the saw as it cuts into the wood, and thus hold the saw to its work.

By moving the handle *b* up and down, it will be observed that the right-angled or knee lever E will be so affected as to impart a backward and forward movement to the sliding bar and saw, by which the latter will be caused to cut the wood.

L is a fly or balance wheel, secured to an axis mounted in the arms of the uprights or frame B B, and linked, as at *ll*, to the lever or beam C, to impart a certain amount of momentum to the machine.

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

1. In a sawing-machine, the combination of the knee-lever E, saw-bar F, hand-lever I, and arms H' H', substantially as and for the purpose set forth.

2. The combination of the beam C with intermediate mechanism for operating the saw-handle F, link *l*, and balance-wheel L, substantially as and for the purpose set forth.

3. The hand-lever I, in combination with uprights B B, sliding bar or saw-handle guide, and adjusting device consisting of the loop or eye H and arms or plates H' H', substantially as and for the purpose set forth.

4. The foot-lever K, in combination with the device consisting of the loop or eye H and arms or plates H' H', substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

ELBERT F. WILCOX.

Witnesses:

H. H. DYER,
F. SKADAN.