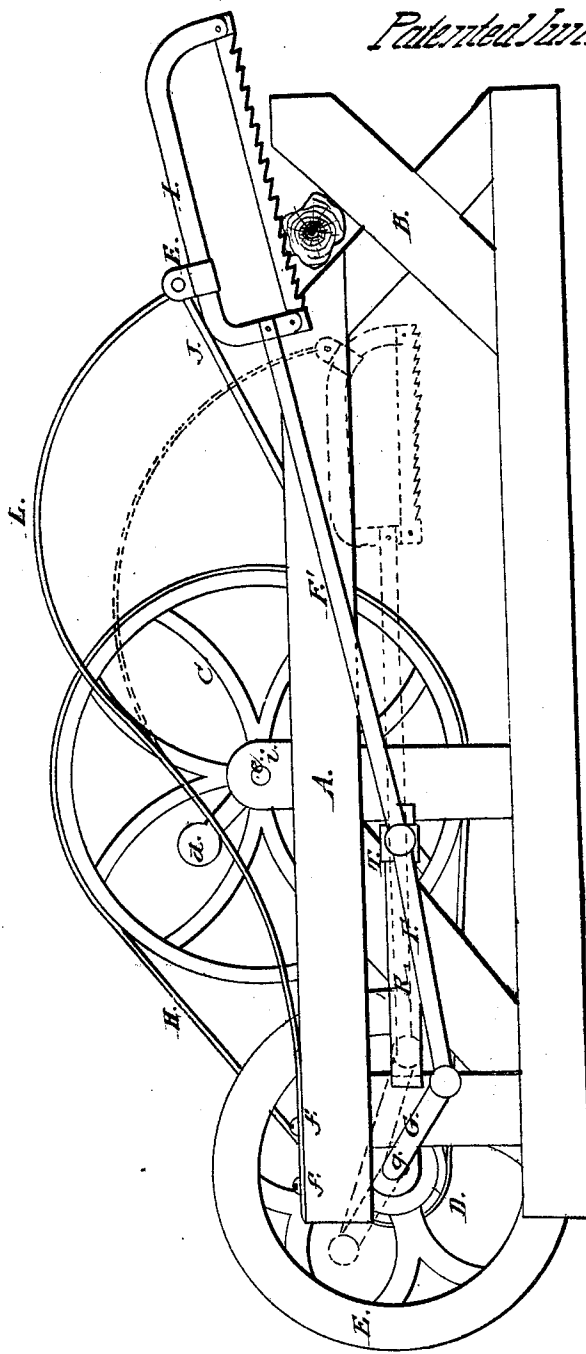


W. Martin.

Sawing Mach.

N^o 91,461.

Patented Jan. 15, 1869.



Witnesses:
Geo. W. Rithwell
Phil. F. Larner.

Inventor:
W. Martin.
By Diederheim & Co.
attys.

United States Patent Office.

WILLIAM MARTIN, OF BAY CITY, MICHIGAN, ASSIGNOR TO HIMSELF AND HIRAM B. EVERETT, OF WASHINGTON, DISTRICT OF COLUMBIA.

Letters Patent No. 91,461, dated June 15, 1869.

IMPROVEMENT IN SAWING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM MARTIN, of Bay City, in the county of Bay, and State of Michigan, have invented a new and useful Improvement in Sawing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, in which my invention is represented by a side elevation.

My invention consists—

First, in a guide loosely jointed to a pivoted rod, clasping the frame to which the saw is attached;

Second, in the combination and arrangement of the cranks, pitmen, slide-ways, and saw; and

Third, in the combination, with the crank, pitmen, slide-ways, and saw, of a spring for holding the saw down, all as hereinafter more fully described.

In the drawings—

A is a horizontal frame, supporting the operating-parts of the machine.

To the forward end of this frame, a buck, or horse, B, for holding the wood while being sawed, is secured. This horse B consists of cross-pieces placed at each side of the frame A.

C is a driving-wheel on the shaft *e*, mounted in bearings *i*.

d is a crank for operating the driving-wheel C.

D is a pulley, and

E, a fly-wheel mounted on a shaft, *g*, supported in bearings *g*.

A belt, H, passes over the driving-wheel C and the pulley D.

A crank, G, communicates motion from the fly-wheel E to the pitmen F F', and the saw I.

The pitmen F and F' are secured to a slide, T, which moves on a way, R.

J is a connecting-rod, pivoted to frame A and slide K.

L is a spring secured to the frame A, at *f f*, and to the swinging guide K, through which the saw I moves.

It will be seen that the forward part of the saw-frame is curved, so that in consequence of the guide K clasping the frame, the saw is elevated from the wood on the return motion.

In operating my machine, a log of wood, M, is first placed on the horse B. The saw I is then raised to the position shown, the spring L causing the same to press upon the wood. The crank *d* being turned, communicates motion to the driving-wheel C, and through the belt H, to the pulley D and fly-wheel E, which move the crank G, pitman F, slide T, moving on the way R, and pitman F', which operates the saw I, moving in the swinging guide K. After the operation of sawing is completed, the saw I and spring L drop into the position shown in red.

It will be readily perceived that my machine is alike simple and practical. It can be made so as to be easily carried from place to place when not in use.

I am aware that the different parts of my invention, when taken separately, are not new.

I am also aware that Letters Patent have been granted to A. E. and J. V. Warner, dated December 4, 1866, and also to I. Allard, dated October 16, 1866, for sawing-machines, somewhat similar to my invention, and I hereby disclaim these inventions.

Having thus described my invention,

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

The arrangement of the curved feed-spring L, provided with a loop or slide, K, at its forward end, to which the saw-frame I is attached, arm J, levers F F', and crank C, all constructed and operated in the manner and for the purpose set forth.

The above signed by me, this 12th day of January, 1869.

WM. MARTIN.

Witnesses:

JAMES BIRNEY,
R. C. MARLATTE.