H. Woodward,

Drag Saw.

No. 93,787. Patented Aug. 17. 1869.

Fig. 1.

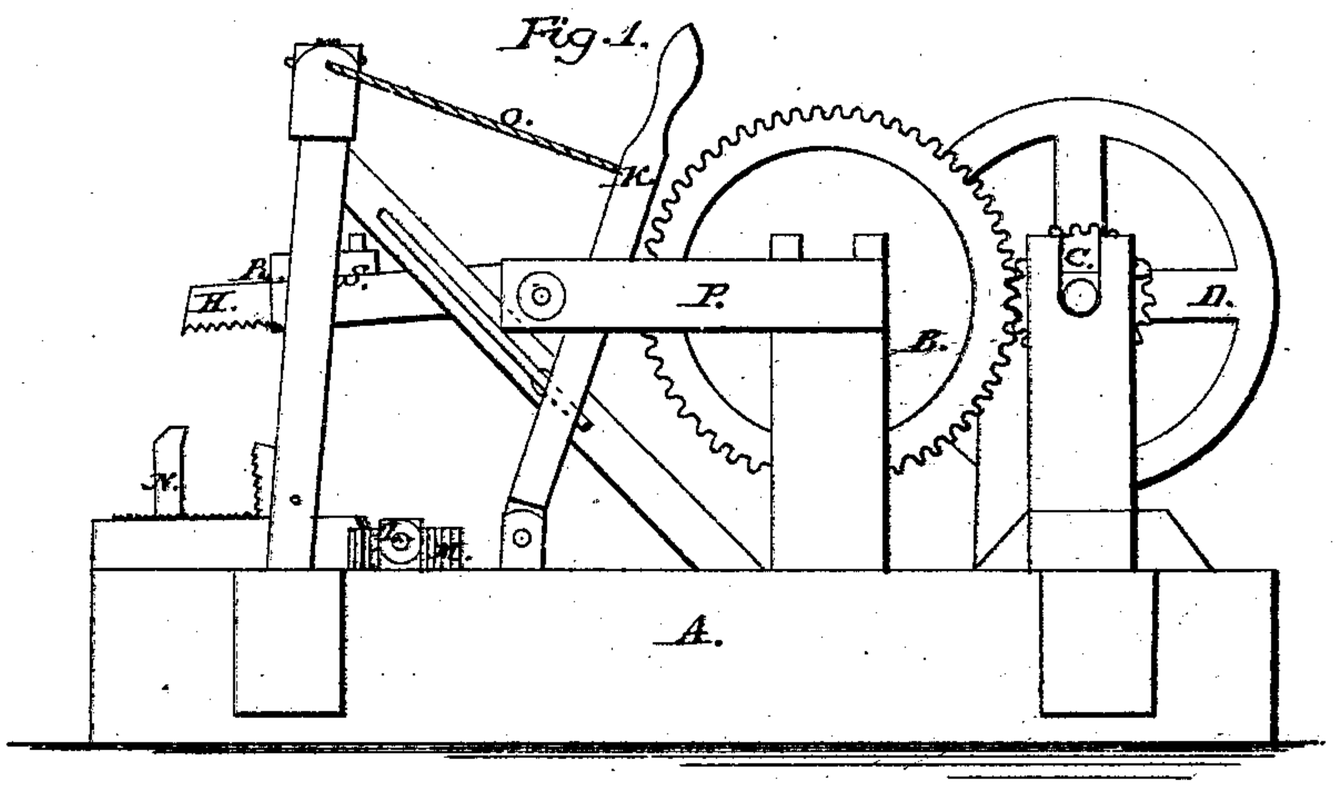


Fig. 2.

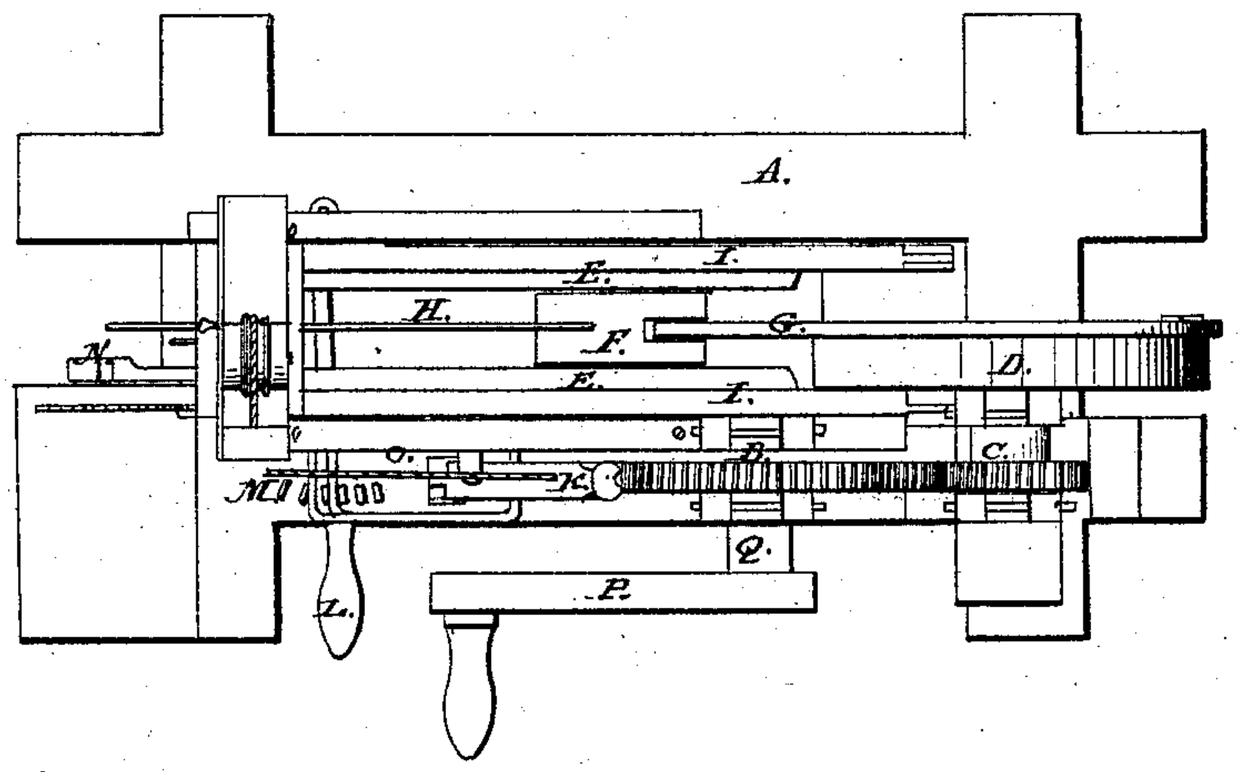
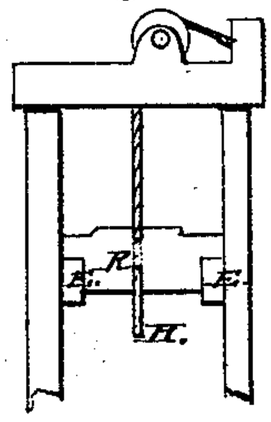


Fig. 3.



WITNESSES.
J. B. Smith
Philip Stein

INVENTOR:
Hobbis Woodward

United States Patent Office.

HOLLIS WOODWARD, OF MILWAUKEE, WISCONSIN.

Letters Patent No. 93,787, *dated August* 17, 1869; *antedated August* 5, 1869.

IMPROVEMENT IN SAWING-MACHINES.

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, HOLLIS WOODWARD, of the city and county of Milwaukee, and State of Wisconsin, have invented a new and useful Improvement in Sawing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a side view of my machine;

Figure 2, a top view; and

Figure 3, an end view of the saw and saw-frame.

Similar letters of reference, in each of the figures, indicate corresponding parts.

The object of my invention is to produce a machine for sawing wood which shall be easy to work and convenient and economical in its management.

A is the frame of the machine.

B, the cog-wheel, to which the crank is applied.

C, gear-wheel, on the driving-shaft.

D, fly-wheel.

E E, guides, in which plays the cross-head.

F, cross-head.

G, pitman, connecting the cross-head to the fly-wheel.

H, saw.

I I, frame which supports the saw, the ends next to the fly-wheel connected to posts, the other end, between the posts in the frame A, which is raised and lowered, as occasion may require, the end next the fly-wheel being stationary, held by a joint, and the other end being movable, rests on the saw, there being a slot in it, to guide the saw, and at the same time to press on the saw, to make it cut faster.

K, lever, with which to raise and lower the saw.

L, lever, with which to secure the wood to be sawed.

M, pins in the frame A, for lever L to fall into.

N, standard, connected to lever L, to hold the wood when being sawed.

O, rope, with which to raise the saw.

P, crank, with which to operate the machine.

Q, crank-shaft.

R, saw-guide.

S, weight on the end of the saw-frame, which can be carried out to the end of the frame, or drawn back toward the cross-head, so as to give greater or less weight on the saw

Operation.

Put a stick of wood in between N and the fixed standards, then draw up with lever L till it is held fast, then drop lever L in between two of the pins M, and it will be held securely. Then take hold of lever K, and drop the saw on to the wood, and turn the crank P, and the wood will be sawed.

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

A sawing-machine, consisting of the wheel D, slide-grooves E, cross-head F, saw H, saw-frame I, hung by its inner end, and provided with the movable weight S, constructed and arranged to operate as described.

Witnesses: HOLLIS WOODWARD.

J. B. SMITH,

PHILIP STEIN.