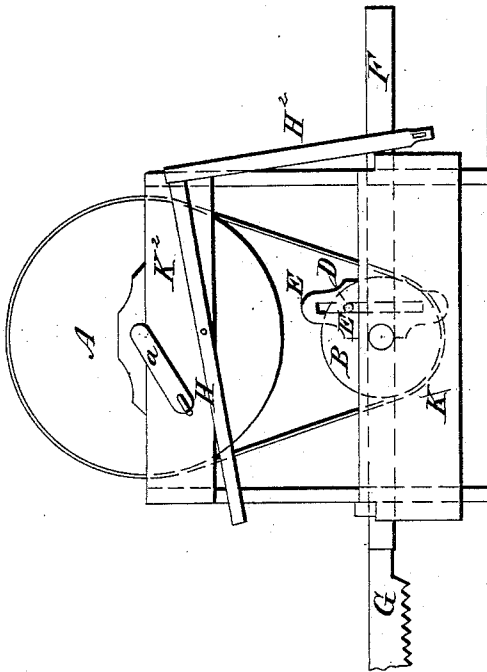


*J. C. Gillett,*

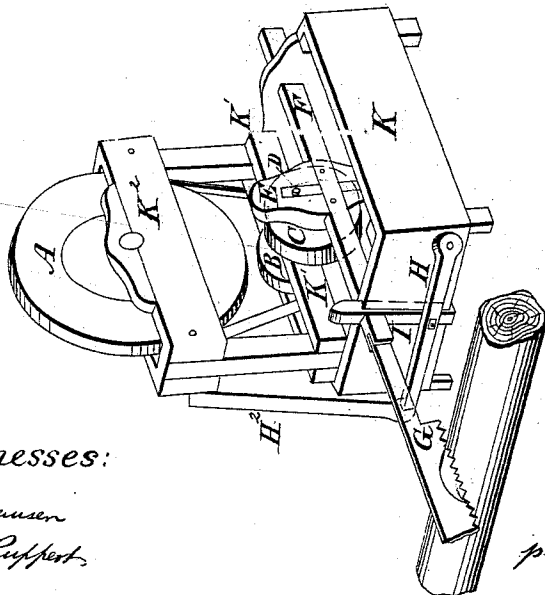
*Drag Saw.*

*No 83,954.*

*Patented Nov. 10, 1868.*



*Fig. 2.*



*Fig. 1.*

*Witnesses:*

*Ch. Clausen  
A. Ruppert*

*Inventor:*

*J. C. Gillett  
per D. P. McQuay & Co*

# United States Patent Office.

JASON C. GILLETT, OF HOLLY, MICHIGAN.

Letters Patent No. 83,954, dated November 10, 1868.

## 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, JASON C. GILLETT, of Holly, county of Oakland, State of Michigan, have invented a new and improved Sawing-Machine; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, due reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is a front elevation.

Similar letters of reference indicate corresponding parts.

My invention relates to that class of sawing-machines which are operated by means of a driving-pulley.

It consists in working the saw by the action of a crank in a cross-head; in providing a tilting-lever, to raise and lower the saw, and in an improved construction and arrangement of its several parts, as will be hereinafter more fully described.

In the drawings—

A is the driving-pulley, having its bearings in the frame K<sup>2</sup>. It is revolved by means of the crank a, or in any convenient manner.

B is the pulley, which has its bearings in the frame K<sup>1</sup>.

C is a disk hung on a continuation of the axle of the pulley.

D is a crank or eccentric-pin driven into a socket on the face of the disk.

E is a slotted vertical cross-head.

F is the slide, passing through a slot in one end of the rectangular frame K, and at the other through a similar slot in an upright, which fits into a recess in the frame. It also fits into a horizontal groove on the face of the cross-head, by means of which the cross-head is carried.

G is the saw, which may be of any improved construction. It may be hung at either end of the slide or arm, as shown in the drawings.

H is the tilting-lever, used to elevate or lower the upright piece I, in which the end of the slide rests. It is operated by means of the hand-lever H<sup>1</sup> and connecting-link H<sup>2</sup>.

I is an upright, slotted at its upper end, to receive the slide, and secured at its lower end to the tilting-lever H.

K is a rectangular frame, having erected on its side

the frames, K<sup>1</sup> K<sup>2</sup>, to support the axles of the driving-pulley, pulley, and disk.

The operation of my invention is as follows:

Secure the log in a fixed position, with the teeth of the saw upon it. The crank a enables you to turn the driving-pulley, which imparts a rapid revolution to the pulley and disk, supposing the crank on the face of the disk to be at the upper end of the slot in the cross-head. As the disk revolves to the right, it carries the crank with it. The pressure of the crank on the side of the slot impels the cross-head to the right, until the disk has nearly completed a half revolution, when it is carried in the opposite direction for the same period, thus giving a rapid horizontal motion to the slide to which the saw is hung, and to the saw. The saw is easily lifted out of the cut by bearing upon the hand-lever.

The ease with which the work is performed, comparatively speaking, depends, of course, on the quality of the wood to be cut, and the condition of the saw.

From the foregoing description of the nature and operation of my invention, it is evident that the power necessary to drive the saw is easily generated; that its movement is rapid; that its construction is simple, cheap, powerful, and effective; that it is strong and durable, and if it gets out of order, is easily repaired; that it can be conveniently transported from place to place, being light and portable.

Having thus described the nature and operation of my invention,

What I claim, is—

1. The arrangement of the driving-pulley A, with reference to the platform upon which the operator stands, and to the levers H<sup>1</sup> H<sup>2</sup> and connecting-link H<sup>2</sup>, substantially as shown and described.

2. The arrangement of the driving-pulley A, crank-shaft, with its disk C, crank D, and cross-head E, for giving motion to the saw, substantially as shown and described.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

JASON C. GILLETT.

Witnesses:

DE WITT C. WADE,  
CALVIN STILES.