

United States Patent Office.

HOFFMAN D. GILLESPIE, OF HUNTINGTON, INDIANA.

Letters Patent No. 101,117, dated March 22, 1870.

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, HOFFMAN D. GILLESPIE, of Huntington, in the county of Huntington, in the State of Indiana, have invented a new, useful, Improved Machine for Sawing Wood; 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.

Figure 1 is a perspective view of my machine, and Figure 2 is a detail.

My invention relates to machines for sawing wood; and

It consists in a novel arrangement of devices by which it is intended to make hand-power more successfully available and efficient than has heretofore been done in that class of machines.

To this end I construct a quadrangular frame, as shown on the drawings, the bed pieces of which are marked M, and arrange therein and thereon the devices following, that is to say—

K represents a circular saw affixed upon the shaft I, and

J a fly-wheel upon the opposite end of said shaft.

Suitable boxes and bearings are arranged upon the upper cross-bars of the frame, to hold said shaft in place and provide for the rotation thereof.

H represents a pinion affixed to shaft I, which meshes and works with the pinion G, as shown.

This pinion G is affixed to a short shaft that has its bearings upon cross-bars of the frame, and meshes and works with the pinion F arranged on the shaft next mentioned.

O represents a shaft upon which the pinion F is arranged, and which has its outer or end bearing upon

an end cross-bar of the frame, as shown, while its inner end rests in the circular crank-wheel C. A similar crank-wheel is affixed to the opposite end of said shaft, outside its bearing.

The letters B represent levers pivoted to the frame, one of which is connected with the crank-pin on wheel C, and the other to the crank-pin of the crank-wheel at the opposite end of shaft F, above mentioned.

L represents a sliding frame arranged upon the main frame, in the manner shown, and is designed to hold the wood while the same is being sawed.

The letter *a* is an elastic strap of India rubber, one end of which is attached to the side of frame L, as shown, while the other end is attached to the main frame of the machine. The office of this strap *a* is to draw the sliding frame backward after it has been pushed forward, and the stick thereon has been severed by the saw.

To operate my device, the wood is placed upon the sliding frame, which one man moves backward and forward by the aid of the strap *a*. At the same time the levers B are moved up and down by one man each, thereby giving great speed to the saw. By these means the wood is expeditiously cut without the aid of steam or other power outside the human frame.

I claim as my invention—

The sawing-machine herein described, having saw K, pinions H, G, and F, shafts, as described, together with the crank-wheels C, levers B, frame L, and strap *a*, constructed and arranged to operate substantially as specified.

HOFFMAN D. GILLESPIE.

Witnesses:

F. P. LUCAS,
T. L. LUCAS.