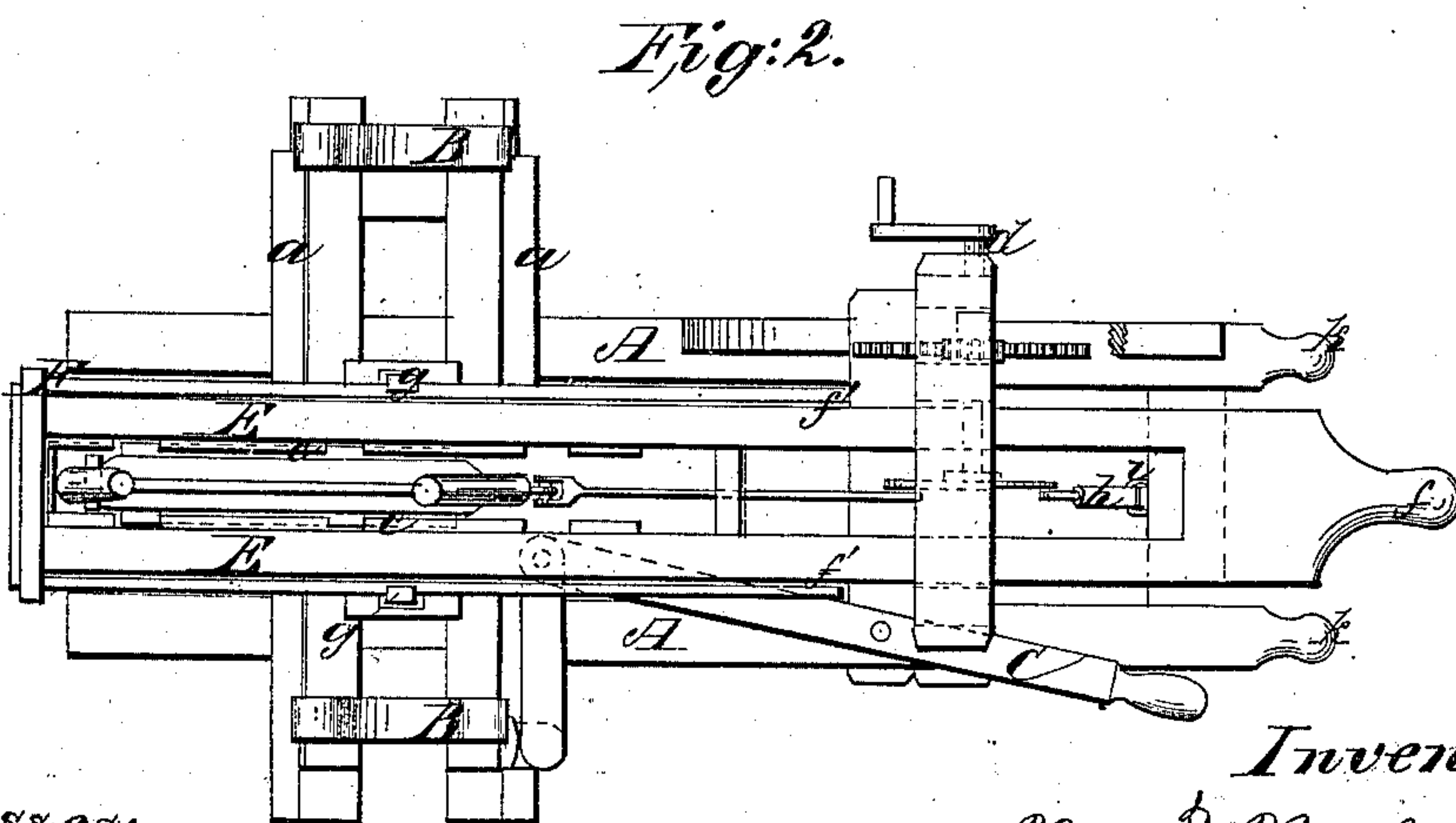
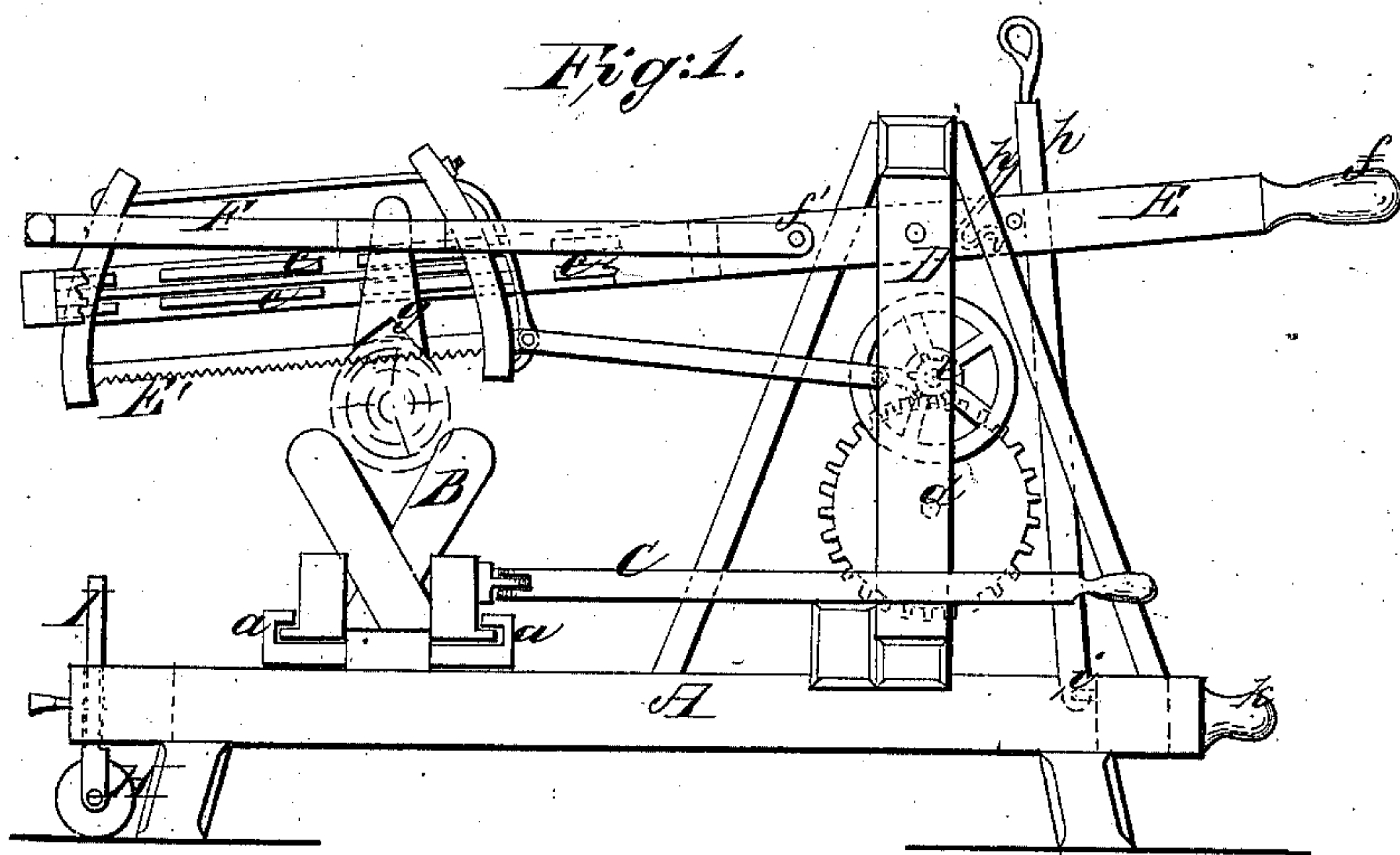


M. P. Noel,

Drag Saw.

N<sup>o</sup> 81,400.

Patented Aug. 25, 1868.



Witnesses:

H. C. Aschett  
J. A. Morgan

Inventor:

M. P. Noel  
per M. P. Noel  
Attorneys

# United States Patent Office.

M. P. NOEL, OF ST. CLOUD, MINNESOTA.

*Letters Patent No. 81,400, dated August 25, 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, M. P. NOEL, of St. Cloud, in the county of Stearns, and State of Minnesota, have invented a new and improved Sawing-Machine; 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 make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to provide an improved machine for sawing wood, and other like purposes.

It consists in the arrangement, upon a bench, of a sliding log-holding frame, and an arrangement of means for communicating reciprocating motion to the saw by power applied to the driving-shaft; and also an arrangement of means for presenting the saw to the log when it is to be sawed, and moving it out of the way of the log and log-holding frame when the log is to be moved, as will be more fully described on reference to the accompanying drawings, wherein—

Figure 1 represents a side elevation, and

Figure 2 represents a plan view of my improved machine.

Similar letters of reference indicate corresponding parts.

A represents the bed-frame of the machine, which may be supported on legs, or in any other suitable manner, which is provided with transverse ways *a a*, wherein a log-holding frame, B, is arranged, and provided with a lever, C, for sliding it back and forth.

D represents a vertical frame, supported in the main frame A, and provided with crank-shafts *d* and *e*, and the necessary gear-wheels, connecting-rod, and a balance-wheel for reciprocating the saw.

E represents an oscillating-frame, suspended upon an axis near the top of the frame D, and provided with ways *c* for the saw *E'*, and a handle, *f*, for actuating it.

F represents an oscillating-frame, pivoted to the frame E at *f'*, and provided with pendent notched arms *g*, which are intended to bear upon the top of the log, to prevent it from rolling under the action of the saw.

The frame F may be arranged so that pressure may be applied to the swinging end, if desired.

*h* represents a swinging arm, pivoted to the frame at *i*, and provided with a hook, *h'*, arranged to take on to a pin in the frame E, to hold the end which supports the saw up out of the way of the log, when it is desired to adjust the log.

When the log to be sawed is arranged in position, the hook *h'* is disconnected from the frame E, which permits the end which carries the saw to be depressed, so as to bring the saw into contact with the log, the weight of that end of the frame being supported by the saw, thereby effecting the necessary pressure to cause the saw to take hold of the wood with sufficient force. Motion is then applied to the crank-shaft, whereby the saw is actuated, to accomplish the work.

H represents a wheel, connected to the frame by the adjustable stock I, which may be set, with reference to the frame, so that, by means of the handles, the frame may be moved from place to place by one person, without difficulty.

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

1. The oscillating log-holding frame F, when pivoted to the oscillating saw-guide frame E, controlled by the lever *h* and hook *h'*, whereby the holding-dogs *g* clamp the log upon each side of the saw-holding frame, and saw-guide frame, all constructed, arranged, and operating as herein shown and described.

2. The log-frame B, operated in the transverse guides *a* by the lever C only, whereby the log is set to the saw by one movement of the lever, as herein set forth.

The above specification of my invention signed by me, this 9th day of April, 1868.

M. P. NOEL.

Witnesses:

R. M. RICHARDSON,

S. O. ELBRETH.