J. A. CHANDLER.

WOOD-SAWING MACHINE.

No. 193,395. Patented July 24, 1877.

Fig. 1

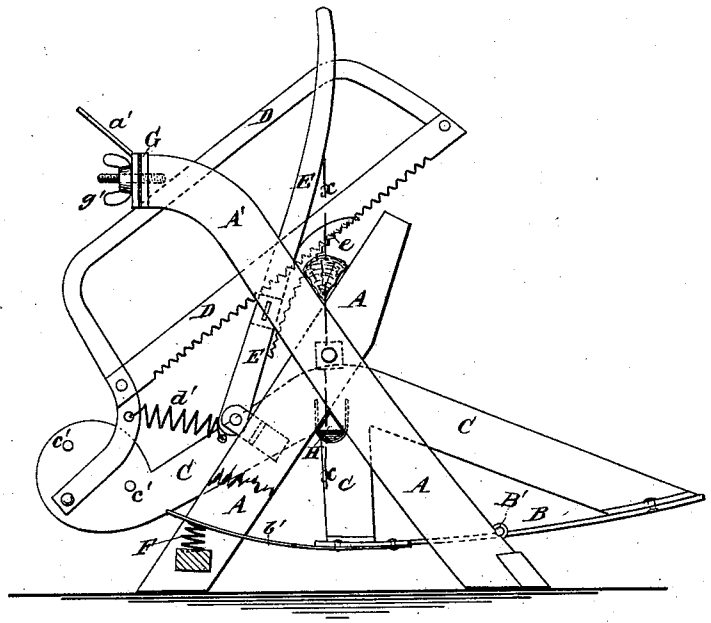


Fig. 2

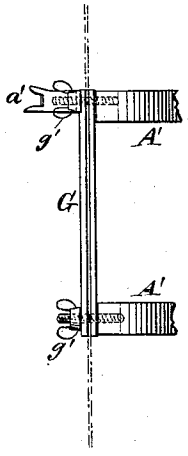
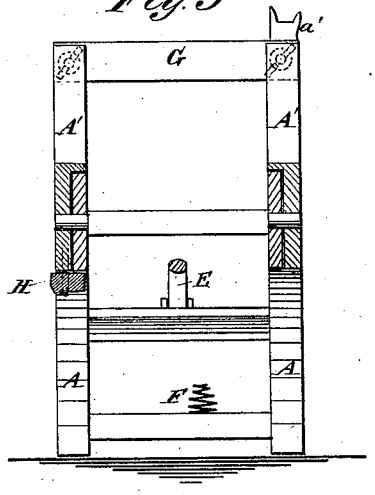


Fig. 3



WITNESSES:

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JOHN A. CHANDLER, OF MONTICELLO, IOWA.

IMPROVEMENT IN WOOD-SAWING MACHINES.

Specification forming part of Letters Patent No. **193,395**, dated July 24, 1877; application filed June 4, 1877.

To all whom it may concern:

Be it known that I, JOHN A. CHANDLER, of Monticello, in the county of Jones and State of Iowa, have invented a new and Improved Wood-Sawing Machine, of which the following is a specification:

Figure 1 is a side elevation of my improved machine. Fig. 2 is a detail view of the clamp for holding the saw while it is filed. Fig. 3 is a vertical section on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

In the drawing, A is a saw-horse, having the extended and curved arms A′, to the ends of which clamping-jaws G are attached for holding the saw while it is filed. These jaws are drawn together by thumb-nuts *g′*.

B is a treadle pivoted to the saw-horse at B′, and attached to a frame, C, which extends beyond the treadle, and to which the saw-frame D is pivoted.

c c′ are stop-pins for preventing the saw from dropping too low and from being thrown too far back. A spring, *d′*, is attached to the frame C and to the saw-frame D, for drawing the latter downward, so as to cause the saw to bear upon the wood supported by the horse.

To the inner end of the treadle a spring, *b′*, is attached, which strikes a buffer-spring, F, at each downward stroke of the treadle.

E is a lever pivoted to the cross-bar at the back of the horse, and provided with a curved serrated dog or holder, *e*, that engages the surface of the wood being sawed as the lever E is drawn forward. A forked iron, *a′*, is secured to one of the extended arms A, for supporting the saw-frame D when the saw is not in use.

H is an anvil, having a plane and a beveled surface for setting the saw.

The operation is as follows: A stick of wood is placed upon the horse, and the treadle is oscillated with both feet, while at the same time the upper end of the saw-frame is grasped by one hand and the lever E (which securely clamps the wood) by the other. The wood is thus quickly sawed with very little exertion.

The saw, when filed, is placed in the clamp G, and by turning the saw-horse upon its side the saw may be readily set upon the anvil H.

By using the spring *b′* and buffer-spring F, I am enabled to get an easy and regular motion, and so to dispense with cranks and fly-wheels.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The treadle B, frame C, having stop-pins *c*, the saw-frame D, and saw-horse A, in combination with the springs *b* F, arranged under the treadle, substantially as herein shown and described.

2. The combination of the clamp G with the saw-horse A and anvil H, having curved arms A′, as shown and described.

JOHN A. CHANDLER.

Witnesses:

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D. E. POND.