

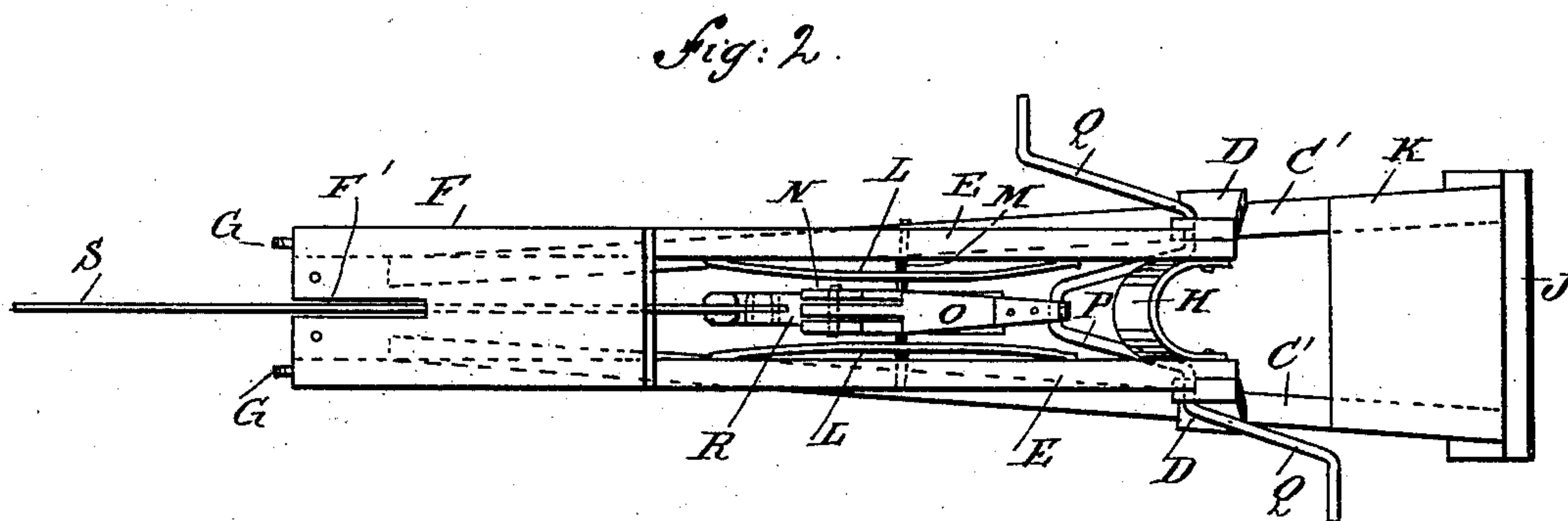
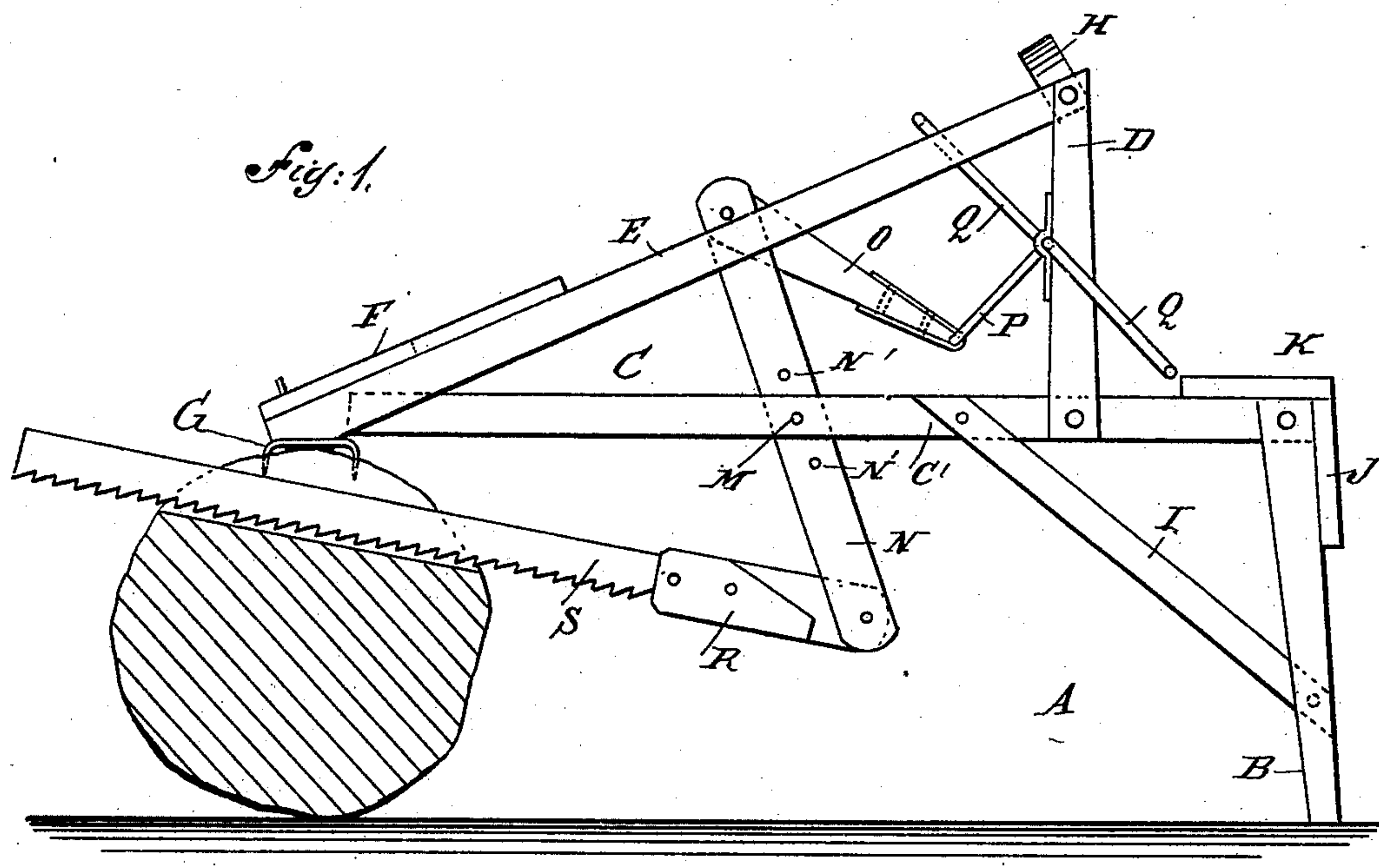
(No Model.)

M. & G. E. COXE.

DRAG SAW.

No. 361,052.

Patented Apr. 12, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

MERVIN COXE AND GEORGE E. COXE, OF GREAT VALLEY, NEW YORK.

DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 361,052, dated April 12, 1887.

Application filed October 12, 1886. Serial No. 216,030. (No model.)

To all whom it may concern:

Be it known that we, MERVIN COXE and GEORGE E. COXE, both of Great Valley, in the county of Cattaraugus and State of New York, have invented a new and Improved Sawing-Machine, of which the following is a full, clear, and exact description.

The object of our invention is to provide a new and improved sawing-machine, which is simple and durable in construction and effective in operation.

The invention consists of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of our improvement, and Fig. 2 is a plan view of the same.

The frame A, of hard wood or other suitable material, is provided with legs B, which support the rear end of the bed-frame C, on which are erected the standards D, connected by the inclined braces E to the front of the bed-frame C. The front ends of the braces E support the guide F, having the longitudinal slot F', and to the under side of the said ends of the braces E are secured the metallic pointed spikes or clamps G. The upper ends of the standards G are united by the curved brace or stay H and the bed-frame C, and the legs D are strengthened by the braces I and by the cross-piece J.

A platform, K, is secured to the rear upper end of the bed-frame C. Near the center of the latter, and on the side edges of the two beams C' of the frame C, are secured the metallic guide-plates L, through which and through the side beams, C', passes a pin or shaft, M, on which oscillates the lever N, connected at its upper end by the link O, with the crank-arm P, journaled in suitable bearings in the standards D, and provided on each side with a handle, Q. To the lower end of the lever N is pivotally attached the saw-holder R, which carries the saw-blade S.

The operation is as follows: The frame A is placed in the position shown in Fig. 1, so that the spikes or clamps G are firmly embedded in the top of the log to be sawed, and the saw-blade S rests in the slot F' of the saw-guide F. The bed-frame C is thus supported in a horizontal position at one end by the log and at the other end by its legs B. The operator seats himself on the platform K, and by turning the handles Q, imparts a rotary motion to the crank-arm P, which by means of the link O imparts an oscillating motion to the lever N. The oscillation of the lever N causes a forward and backward motion of the saw S, which thus saws the log.

The pivotal connection of the saw-holder R with the lever N permits the saw-blade S to adjust itself to the cut in the log. The throw of the lever N can be increased or diminished by changing the fulcrum of said lever by means of the apertures N' and the pin M.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a sawing-machine, the bed-frame C, supported at one end by the legs B, the standards D, erected on the said bed-frame, the braces E, connecting the said standards with the bed-frame, the slotted saw-guide F on the front end of the said braces E, the clamps or spikes on the under side of the said braces, the metallic guide-plates L, secured to the bed-frame C, and the pin M, journaled in the said guide-plates L, in combination with the crank-arm P, journaled in the said standards D and provided with the handles Q, the link O, connected with the said crank-arm, the oscillating lever N, pivotally connected with the said link O and fulcrumed on the said pin M, and the saw-blade S, pivotally connected with the said lever N, substantially as shown and described.

MERVIN COXE.
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Witnesses:

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