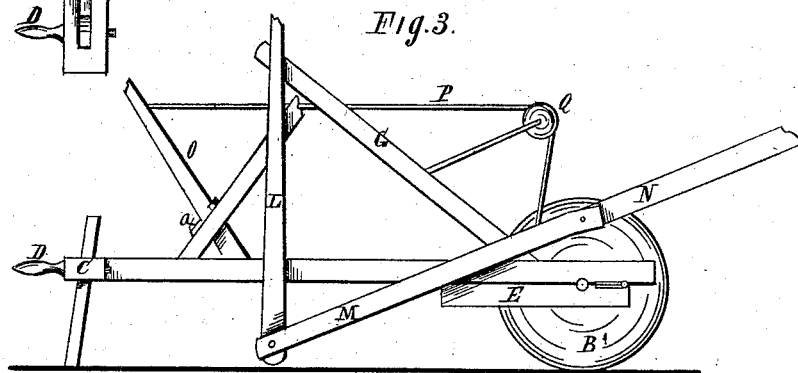
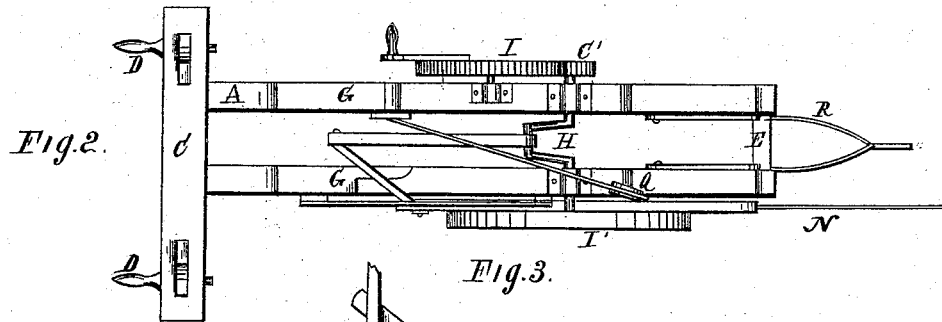
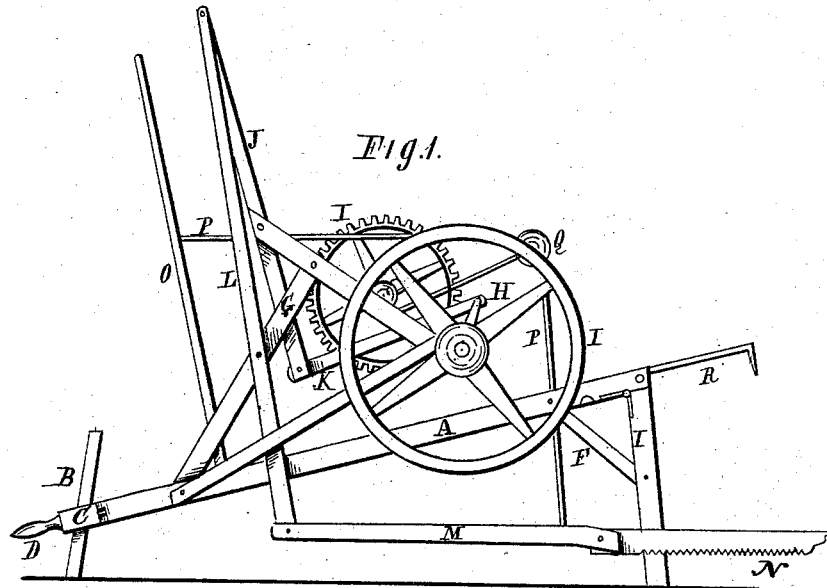


B. ROSS.
 Drag-Sawing Machines.

No. 219,366.

Patented Sept. 9, 1879.



WITNESSES.

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UNITED STATES PATENT OFFICE.

BARNEY ROSS, OF RUSSELL, OHIO.

IMPROVEMENT IN DRAG-SAWING MACHINES.

Specification forming part of Letters Patent No. **219,366**, dated September 9, 1879; application filed July 1, 1879.

To all whom it may concern:

Be it known that I, BARNEY ROSS, of Russell, in the county of Wayne and State of Ohio, have invented a certain new and Improved Machine for Sawing Logs, &c., of which the following is a description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation of the machine when set for use. Fig. 2 is a plan view of the same. Fig. 3 is a side view of the machine, partially in section, showing the machine with a wheel attached thereto for transportation.

Like letters of reference refer to like parts in the several views.

This invention relates to a portable machine for operating a saw for cross-cutting logs, sawing wood, &c., and which, when required to be moved from place to place, is supplied with a wheel on which the machine is trundled by the operator. Said wheel is detached when the machine is again to be set up for use.

The application of a wheel to the machine for the purpose specified avoids the necessity of loading it into a wagon for moving it from one place to another.

A more full and complete description of the machine is as follows:

In the drawings, A, Fig. 1, represents an oblong rectangular frame, supported at the rear end by a pair of adjustable legs, B, secured in the cross-tie or tail-piece C by pins D, which also serve as handles for moving the machine, as hereinafter explained.

The front end of the frame is supported on a pair of legs, E, hinged to the under side of the end of the frame. Said legs are retained in position by braces F. By means of the hinge, by which the legs are attached to the frame, they can be turned up under the sides of the frame, as shown in Fig. 3.

On the top of each side of the frame is mounted an A-shaped frame, G, between which is hung a crank, H, having its bearings in the front side of the said frames G.

To one end of the shaft of the crank is secured a pinion, O', for operating the same by means of a cog-wheel, I, engaging the pinion,

as shown in Fig. 2. On the opposite end of the crank-shaft is a fly-wheel, I'.

To the extreme upper end of one of the frames G is pivoted a lever, J. To the lower end of said lever is attached a connecting-rod, K, whereby the lever is attached to the crank above alluded to; also, to the side of the frame G is pivoted a lever, L. The upper end of said lever L is pivoted to the upper end of the lever J, and moves conjointly therewith. The lower end of the lever J depends below the frame A, and is connected to an arm, M, in which is secured a saw, N. Said arm is lifted upward for elevating the saw by means of a lever, O, connected to said arm by a cord, P, passing over the roller Q.

The position of the machine as shown in Figs. 1 and 2 is such as when it is in practical use. To this end the log to be sawed is laid crosswise before the front end of the machine under the saw, which is elevated by the lever and cord for that purpose. The log is held in place by a dogging-arm, R, projecting from the end of the machine.

The saw is operated by turning the cog-wheel, thereby giving motion to the pinion, which in turn operates the crank, and by its connection with the lever J imparts a reciprocating action to the arm and saw, the weight of which feeds it to the log.

In order to move the machine from place to place, a wheel, B', Fig. 3, is placed in the front end of the frame. The axle of the wheel is kept in place by the front legs, which are turned up under the sides of the frame, and made fast thereto by any suitable means. The legs being relieved from supporting the machine, it is now borne by the wheel, as shown in Fig. 3, on which the operator can wheel it off by lifting the rear end of the frame by the handles D.

During the transportation of the machine the saw-arm and saw are elevated and secured in such position by a latch, a.

The machine is light in structure, and is easily managed by one person for sawing and for moving it about.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In portable machines for sawing logs, &c.,

the crank H and gearings, levers J X L, connected to each at their upper ends, and pivoted to the side of the frame G, pitman connecting said crank to the lever J, operating the lever L, to the lower end of which is attached the arm M of the saw, in combination with the frame A, having adjustable rear legs and securing-pins, and the front legs, hinged to the under side of said frame to admit of their being turned up, and to serve as boxes for the wheel, substantially as described.

2. In machines for sawing logs, &c., the

frame A, having the front legs hinged to the under side thereof, to admit of their being turned thereunder, so as to form journal-boxes for the wheel B', adapted to run upon the ground for moving the machine from place to place, in the manner substantially as described, and for the purpose specified.

BARNEY ROSS.

Witnesses:

J. H. BURRIDGE,
S. C. COLLINS.