

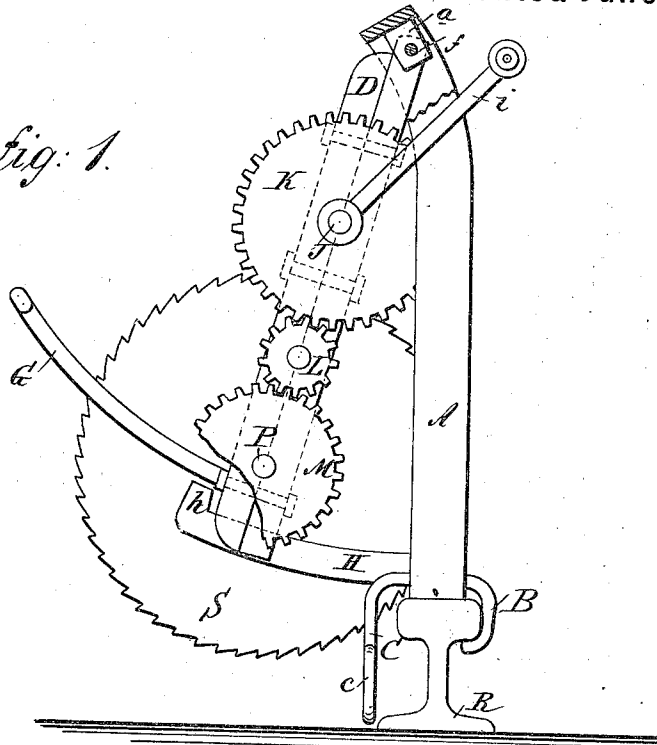
(Model.)

J. McKINNEY.  
Portable Rail Sawing Machine.

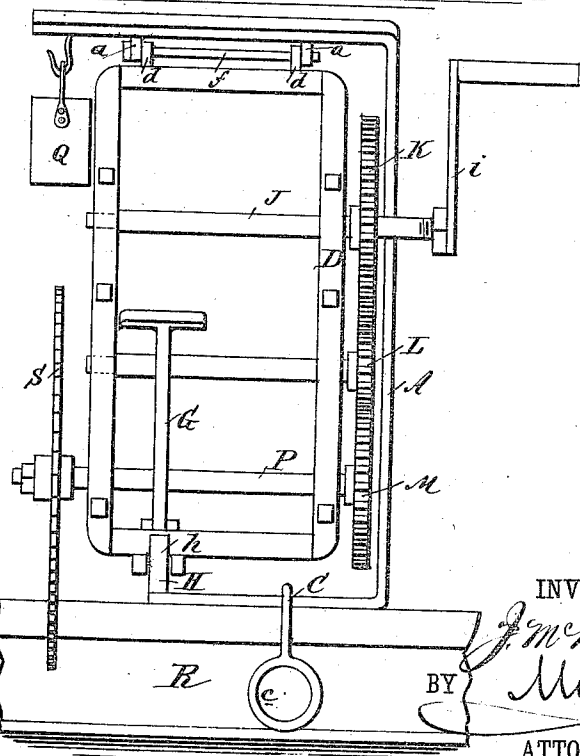
No. 243,595.

Patented June 28, 1881.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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BY

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# UNITED STATES PATENT OFFICE.

JAMES MCKINNEY, OF SALTILLO, MISSISSIPPI

## PORTABLE RAIL-SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 243,595, dated June 28, 1881.

Application filed March 21, 1881. (Model.)

To all whom it may concern:

Be it known that I, JAMES MCKINNEY, of Saltillo, in the county of Lee and State of Mississippi, have invented a new and useful Improvement in Portable Rail-Sawing Machines, of which the following is a specification.

My invention relates to a portable machine for sawing off the mashed and burred ends of railroad-rails, instead of chipping them off with a hammer and chisel, as heretofore.

The invention consists in a novel construction, arrangement, and combination of a frame for attachment to the rail, and a frame suspended therefrom and carrying a rail-saw and devices for operating it.

In the accompanying drawings, Figure 1 is a side view, and Fig. 2 is a rear view, of a machine embodying my improvements.

A represents an iron frame of oblong form, provided at its lower end with hooks B on its front side, adapted to grasp the overhanging edge of the tread of a rail, R.

Extending from the rear side of the lower end of the frame is an arm, C, which is bent downward and has a ring, c, at its lower end.

D represents an iron frame, also of oblong form, but smaller than the frame A, so as to readily swing therein. Its upper end is hinged to the upper end of the frame A by means of lugs a d and a rod, f, so that when the frame A is in an upright position the frame D can swing therein.

The frame D is provided with a handle, G, for operating it, and its motion is limited by a curved arm, H, extending rearward from the frame A, and having a shoulder, h, at each end.

In the frame D is journaled a shaft, J, which carries a gear-wheel, K, and is provided with a crank, i. The wheel K meshes into an idler-pinion, L, which, in turn, meshes into a gear-wheel, M, attached to one end of a shaft, P, journaled in the lower part of the frame D, and carrying at its other end the saw S.

From a hook at the upper end of the frame A a bucket, Q, is suspended over the saw, for the purpose of allowing water to drip therefrom onto the saw, in order to keep it from heating.

The apparatus is used as follows: The hooks B are hooked under one side of the railroad-rail R, and the frame A is placed in an upright position with the arm C on the side of the rail opposite the hooks B. A crow-bar is then passed through the ring c, so that its point engages with the edge of the rail, while its weight beyond the ring c is sufficient to hold the frame in place. The handle G is held by the left hand, and the saw fed up to its work thereby, while the crank i is turned by the right hand to rotate the saw through the gearing.

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

1. A portable rail-sawing machine possessing the following elements, namely: a stationary frame adapted to be attached to a railroad-rail, and a swinging frame suspended from said stationary frame and carrying a saw and devices for operating it, substantially as and for the purpose herein described.

2. In a rail-sawing machine, a frame, A, provided with hooks B, and an arm, C, having a ring or eye, c, for connecting the apparatus to a rail, substantially as herein described.

3. The combination, with the swinging frame D, provided with the handle G, and carrying the saw and driving-gear, of the curved arm H, extending from the stationary frame A, and provided with the shoulders h, substantially as herein described.

JAMES MCKINNEY.

Witnesses:

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