

J. A. MORRISON.
 Railroad Track-Clearer.

No. 101,757.

Patented April 12, 1870.

Fig. 1

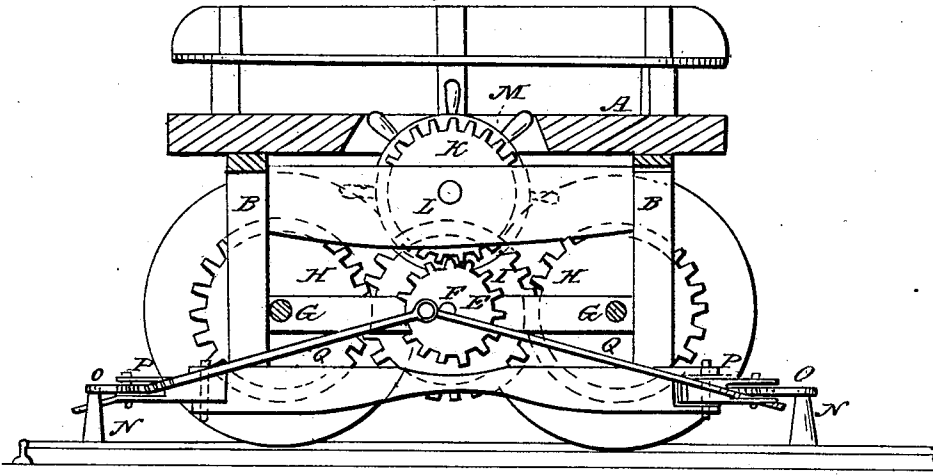
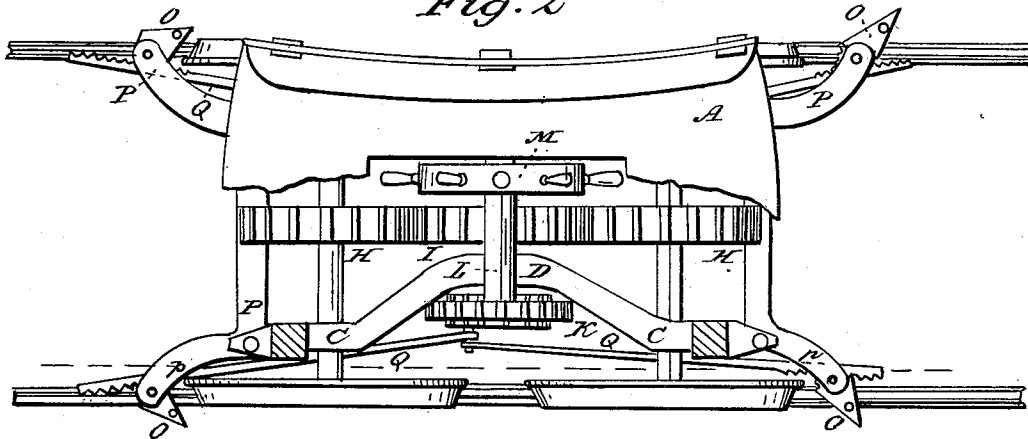


Fig. 2



Witnesses:

Chas. Nida
 Geo. T. Brooks

Inventor:

Jas A Morrison
 PER *[Signature]*
 Attorneys

United States Patent Office.

JAMES A. MORRISON, OF BRADY'S BEND, PENNSYLVANIA.

Letters Patent No. 101,757, dated April 12, 1870.

IMPROVEMENT IN TRACK-CLEARER FOR STREET-CARS.

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, JAMES A. MORRISON, of Brady's Bend, in the county of Armstrong and State of Pennsylvania, have invented a new and useful Improvement in Street-Cars; 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.

This invention relates to a sweeping-attachment for street-cars, and consists in the improvement hereinafter specified.

Figure 1 is a longitudinal sectional elevation of my improved car, and

Figure 2 is partly a plan view and partly a horizontal section.

Similar letters of reference indicate corresponding parts.

A represents the platform or floor of the car, and

B the framing for supporting the same on the axles.

These may be of any improved construction, except the longitudinal stringers C, which I prefer to bend inward between the axles, as shown at D, to afford bearings inside the wheels E for the shaft F.

For propelling the car by hand-power, I place on one or both the axles G, cog-wheels H, and between them, on the shaft F, I place an intermediate wheel, I, gearing with both.

The shaft F of this wheel carries the wheels E, one

at each end, with which the wheels K on the shaft L gear.

This latter shaft carries a tiller-wheel, M, attached to it at the center, and rising up through a slot in the platform, allowing it to work freely. To this tiller-wheel I propose to apply the hand-power for propelling the car-wheels while sitting on the platform.

The track-clearing apparatus consists of the vertical vibrating brushes N mounted in the short arms O, pivoted to supports P above the rails, and caused to vibrate across the rails by the reciprocating toothed rods Q, connected by crank-pins to the wheels E, and gearing with the circular toothed rear ends of the said short arms.

These brushes are intended to be applied to both ends of the car, and those on each side are connected to one wrist-pin on the wheel E by the rods Q. In this way a constant vibratory motion is imparted to the brushes when the car is in motion.

Having thus described my invention,

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

The combination, with a street or other car, of the brushes N, suspended from any suitable support above the rails, and arranged for vibration, as described, and the reciprocating toothed rods gearing therewith, and connected to the wheels E, substantially as specified.

Witnesses: JAS. A. MORRISON.

J. J. HOLLOBAUGH,
HENRY DIBLES.