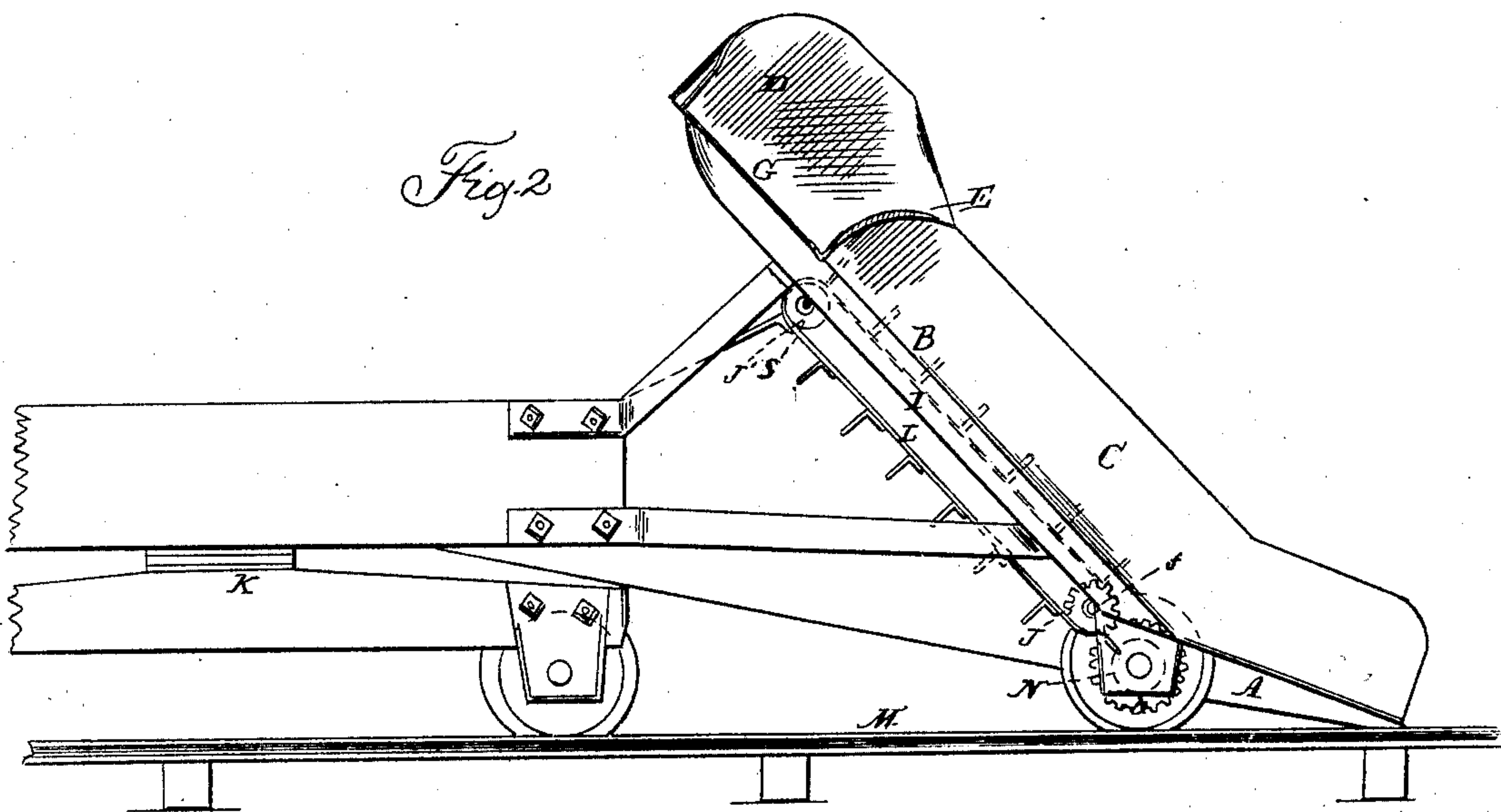
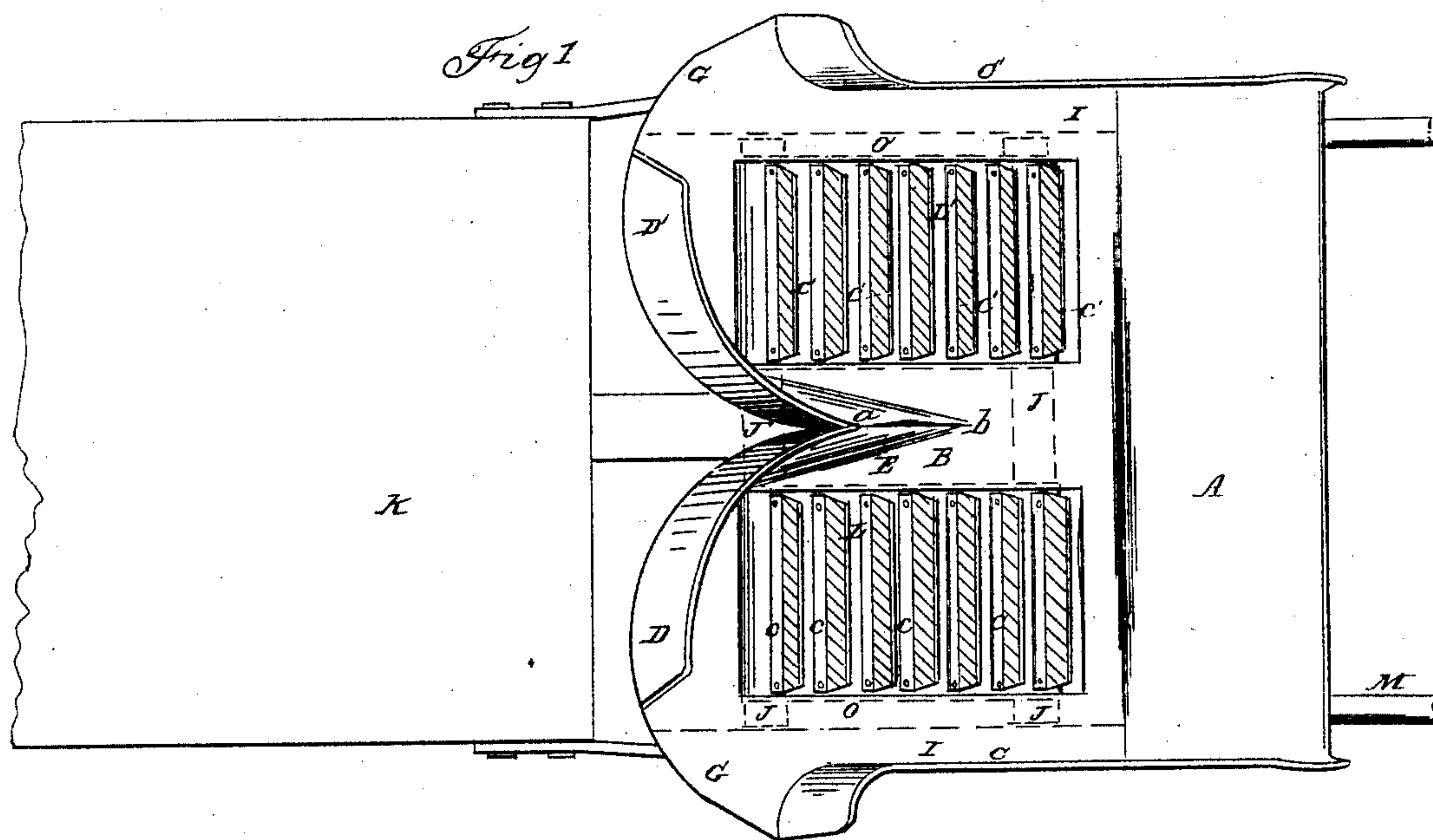


P. BOYDEN.
Car-Track Clearer.

No. 35,074.

Patented Apr. 29, 1862.



Witnesses
Jas Reed
W H. Humish

Inventor
Pardon Boyden

UNITED STATES PATENT OFFICE.

PARDON BOYDEN, OF SANDY CREEK, NEW YORK.

IMPROVEMENT IN SNOW-PLOWS FOR RAILROADS.

Specification forming part of Letters Patent No. 35,074, dated April 29, 1862.

To all whom it may concern:

Be it known that I, PARDON BOYDEN, of Sandy Creek, in the county of Oswego and State of New York, have invented a new and useful Improvement in Railroad Snow-Plows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, forming part of this specification, in the several figures of which similar characters of reference denote the same parts.

Figure 1 represents a side elevation of my improved snow-plow secured to a railroad-truck, a portion only of which is shown. Fig. 2 is a plan view of the same.

The object of my invention is to cause the effectual removal of snow from railroad-tracks and thereby admit of the free passage of the train.

I am aware that many plans have been devised to effect this object, but owing to their defective construction they merely effect the removal of snow at the commencement of the operation, but after a slow movement for a short distance the snow becomes packed and the machine fails to operate.

The nature of my invention consists of an inclined bed or platform, consisting of two parts, A and B, each part having a different inclination and the sides and rear portion of which are protected by peculiarly-shaped upright pieces of metal, and in the bottom of which traverse two endless cleavers or elevators, the same forcing the snow clear of the machine through exit-passages, as hereinafter to be described.

To enable others to make and use my improved snow-plow, I will proceed to describe its construction and operation, as follows:

A and B represent the bed or bottom of the plow. The portion A, which forms the cutter, is made of cast-iron or heavy wrought-iron, and the part B of boiler or heavy plate-iron.

C and C are the sides, and are constructed of cast-iron or plate-iron, and are shaped as shown by drawings. D and D constitute the rear portion of the machine, and consist of peculiarly-shaped upright pieces of boiler-iron, and join together at *a* and terminate at *b*, thereby forming a division, E, which divides the machine in the rear, forming two discharge-pas-

sages. In the rear and at either sides of the machine a portion of the bed or platform is left unprotected, which forms exit-passages for the snow, as at G and G. In the bottom of the machine are two oblong openings, O and O, through which traverse the snow elevators or removers *c* and *c*.

I are timbers which support and brace the rear portion of the machine.

J and J are shafts which extend across the machine and have their bearings in parts secured to the timbers I. Secured around said shafts and revolving with the same are two endless aprons, L and L. These aprons are provided with a series of elevators, *c* and *c*. The endless series of elevators receive their movement by reason of cog-wheels *f* upon shaft J meshing with cog-wheels *h* upon the driving-shaft N; M, railroad-track.

K represents a railroad-truck, to which the plow is rigidly secured by braces or other means which may be deemed practicable.

The operation of my invention is as follows: The plow being driven forward, the snow is forced upon the bed or bottom of the same, and is brought in contact (by reason of its accumulating) with the removers or elevators *c c*, when they, by reason of their constant upward movement, elevate the snow and force it through the exit-passages G and G, clear of the machine, and thus the operation continues so long as snow is deposited upon the machine. The endless elevators *c c* will remove and force it through the discharge-passages clear of the machine and the railroad-track.

Having described the construction and operation of my invention, what I claim, and desire to secure by Letters Patent, is—

The construction of the frame or body of the plow, as herein set forth, in which traverse two endless removers or elevators which effectually deposit the snow clear of the machine and the railroad.

In testimony whereof I have hereunto signed my name, before two subscribing witnesses, this 20th day of March, 1862.

PARDON BOYDEN.

Witnesses:

JAS. REED,
WM. H. HEMMICK.