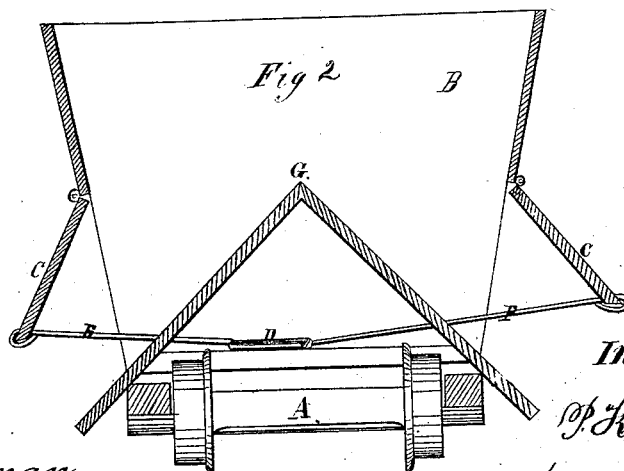
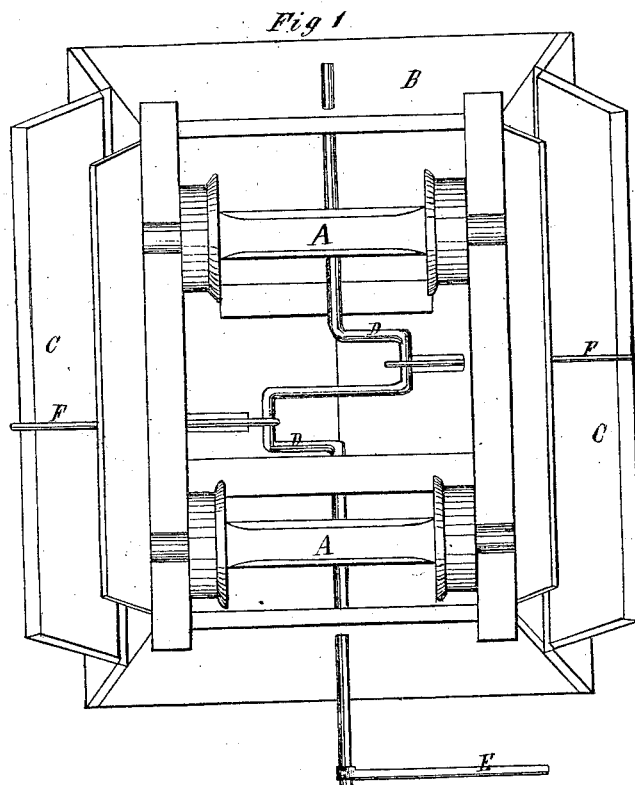


P. K. DEDERICK.

Dumping Car.

No. 109,188.

Patented Nov. 15, 1870.



Witnesses.

Wm. Seaman.
Jno. D. Patten

Inventor.

P. H. Dederick
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United States Patent Office.

PETER K. DEDERICK, OF ALBANY, NEW YORK.

Letters Patent No. 109,188, dated November 15, 1870.

IMPROVEMENT IN DUMPING-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, PETER K. DEDERICK, of Albany, in the county of Albany and State of New York, have invented a new and useful Improvement in Coal-Cars; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

My invention belongs to the class of cars used for moving, by hand, on either elevated or ground tracks; and consists in constructing the car with the bottom sloping both ways over the wheel, so that the coal will slide when the doors are opened. Also, in opening and closing the discharging-door by means of a crank or cranks.

In the accompanying drawing—

Figure 1 is a bottom view of my car.

Figure 2 is a transverse section of the same.

My improvement may be employed on any suitable truck, A, figs. 1 and 2.

The body, B, of the car is provided with discharging-doors C, which are operated by a crank or cranks, D, in connection with hand-lever E and connecting-rods F, thus releasing the doors for discharging, or locking them shut, when the cranks are turned on the center.

The bottom of the bar slopes toward the sides, as shown in the V-shaped section seen at G, fig. 2. The

wheels are located under the sloping bottom, thus bringing the body very low, and discharging the coal or dirt entirely over and outside the track and wheels.

The cranks or crank D may be used for operating the discharging-doors of the bottom dump-cars as well as side dump, and with the same advantages, and chains may be substituted for the rods connecting the cranks to the doors, if desired, with the same effect.

The cranks for opening the doors are located underneath the V-shaped bottom, and are formed on the shaft by forging it to shape, as shown in the drawing, thus allowing both of the cranks to move entirely on or a little past the dead-center, or so that the pressure against the doors will fall directly against the shaft, thus obviating the necessity of retaining ratchets or other fastenings, which are indispensable when the cranks are prevented from moving over the dead-center by the connecting-rods striking the shaft to which they are attached, or by interfering with each other.

Having thus described my invention,

I claim—

The car with a V-shaped bottom, in combination with a double crank-shaft located underneath, when connected and operated substantially as described.

PETER K. DEDERICK.

Witnesses:

A. M. DEDERICK,
N. DEDERICK.