

No. 655,572.

Patented Aug. 7, 1900.

R. A. McCAULEY.  
DUMPING COAL WAGON.  
(Application filed June 2, 1890.)

(No Model.)

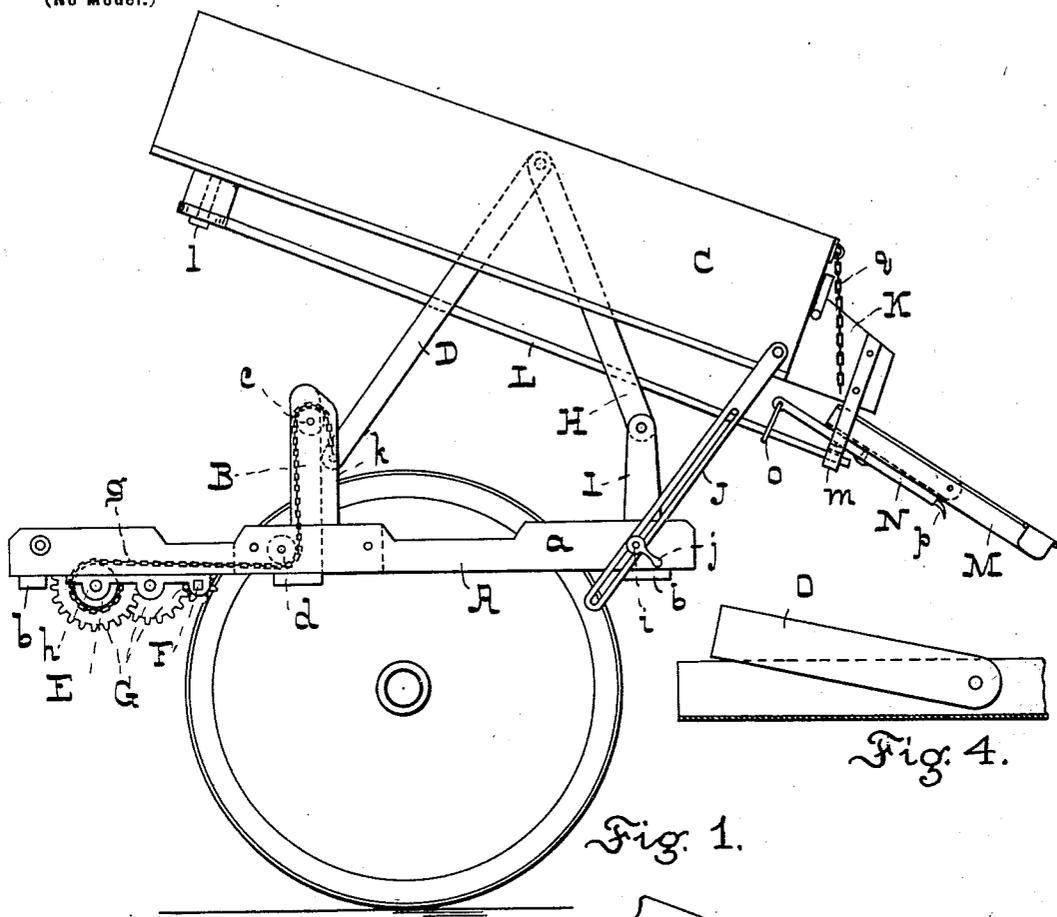


Fig. 1.

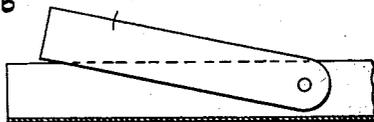


Fig. 4.

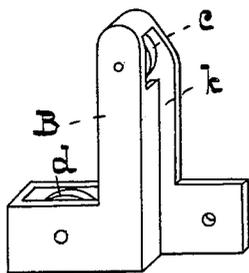


Fig. 2.

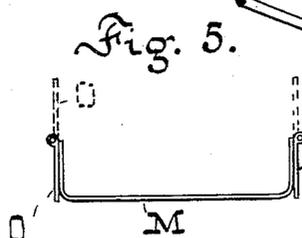


Fig. 5.

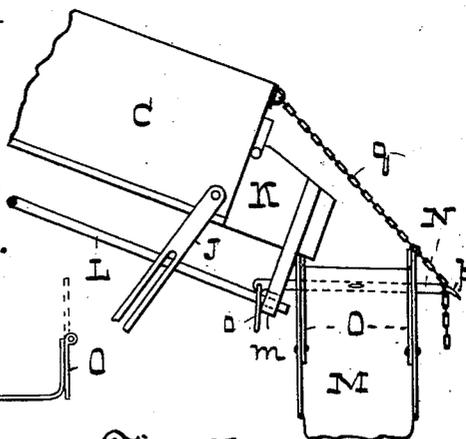


Fig. 3.

Witnesses:  
*M. Candler*  
*Frank B. Chaplain.*

Inventor:  
*Ruben A. McCauley,*  
by *G. H. N. Howard,*  
Attorneys.

# UNITED STATES PATENT OFFICE.

REUBEN A. McCAULEY, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF TO THOMAS H. BLICK, OF SAME PLACE.

## DUMPING COAL-WAGON.

SPECIFICATION forming part of Letters Patent No. 655,572, dated August 7, 1900.

Application filed June 2, 1900. Serial No. 13,837. (No model.)

*To all whom it may concern:*

Be it known that I, REUBEN A. McCAULEY, of the city of Baltimore, in the State of Maryland, have invented certain Improvements in Dumping Coal-Wagons, of which the following is a specification.

In the description of the said invention which follows reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is an exterior side elevation of the improved dumping-wagon with the body thereof in an elevated position. Figs. 2, 3, and 4 are enlarged details of the wagon. Fig. 5 illustrates a modified construction of a part of the wagon, as hereinafter described.

Referring now to the drawings, A is the wheeled truck, consisting principally of the sills *a* and the end connecting-pieces *b*. To the inner sides of the sills *a* are secured the stands B, carrying the sheaves *c* and *d*.

C is the body of the wagon, which in the main is of common construction.

D D are standards pivoted one to each side of the body. These standards are shown as straight, but they may be curved, if desired. To the lower end of each standard is attached a chain *g*, which leads over the pulley *c* and under the pulley *d* to the winding-drum E, the shaft of which is supported in bearing-boxes *h*, secured to the under side of the sills *a*. The winding-shaft is denoted by F, and its rotation is communicated to the drum-shaft through the medium of a train of gear-wheels, (represented by G.)

Pivoted to each side of the body at *e* is a brace-bar H, the lower end of which is pivoted to a stand I, secured to the inner side of a sill.

From the foregoing description it will be understood that when the body of the wagon is elevated, as shown in Fig. 1, it is suspended by the pivots at *e* and may be tilted to any angle of inclination within reasonable limits.

J J are slotted bars pivoted one at each side of the body C to hold the body when tilted to the angle necessary to effect the dumping of its contents. The said bars when adjusted are secured by means of tightening-bolts *i*, having handles *j*.

By reference to the drawings, and particularly Fig. 2, it will be seen that the stands B have a flange *k* at the side next to the sill of the truck. These flanges serve to prevent outward movement of the lower ends of the standards, and thereby steady the body when the same is elevated, as shown in Fig. 1.

K is a spout situated at the delivery end of the body, through which the contents of the wagon are discharged. It is provided with the usual gate, which is not shown.

L is a bar situated under and attached at one end to the body C at *l* and at the other to a stirrup *m*, which depends from the spout K.

M is a chute pivoted to a cross-bar N, one end of which is provided with a link *o*, whereby it is connected to the bar L. The other end of the cross-bar is formed into a hook *p*. By means of this construction the chute may be turned to near a right angle with the body at either side and when so turned is supported by a chain *q*, which is connected to the hook *p*, as shown in Fig. 3. There are two chains *q*, one at each side of the spout, so as to provide for the support of the chute at whichever side it may be placed to dump coal, and when the chute is not in use and is pushed back under the body the said chains may be hooked together under the chute to support its outer end.

O O are doors pivoted to the sides or flanges of the chute, adapted to be elevated, as shown in Fig. 4, to prevent the coal discharged through the spout from passing over the side of the chute against which it strikes.

An alternative construction of the doors O is shown in Fig. 5, wherein they are exhibited as hinged to the upper edge of the chute and adapted to be turned bodily upward instead of at one end, as shown in Figs. 1, 3, and 4.

I claim as my invention—

1. In a dumping coal-wagon, the combination of a wheeled truck, stands erected on the truck, carrying-sheaves, winding apparatus on the truck, a body having pivoted standards with their free ends connected by chains to the winding apparatus, the said chains passing over the sheaves on the stands, brace-bars pivoted to the body at the same points as are the standards, with their lower ends pivoted

to elevated stands on the truck, substantially as specified.

2. In combination with the body of a dumping coal-wagon, a bar secured under the body  
5 and extending longitudinally thereof, a cross-bar connected at one end to the said longitudinally-extending bar by means of a link, and at the other provided with a hook, a  
10 chute pivoted to the said cross-bar, and a chain attached at one of its ends to the body and at the other adapted for connection to

the hook of the cross-bar to sustain it and the chute, substantially as specified.

3. In a dumping coal-wagon, the chute thereof having hinged doors at its upper end, 15 whereby the height of the sides or flanges of the chute at that point may be increased, substantially as specified.

REUBEN A. McCAULEY.

Witnesses:

JOHN W. HEWES,  
WM. T. HOWARD.