(No Model.)

N. MARNELL.

DUMPING CAR.

No. 342,526. Patented May 25, 1886.

Fig. 1

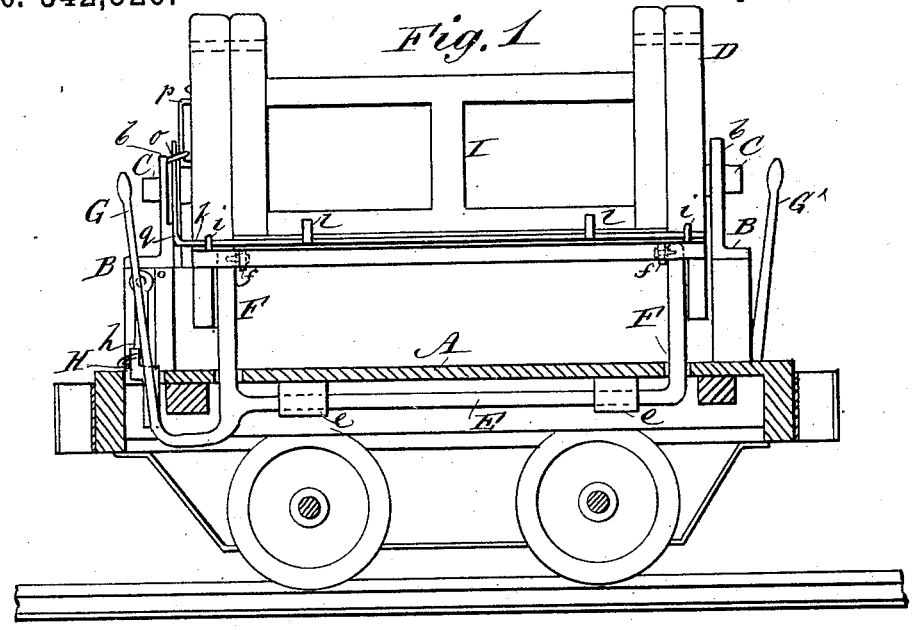
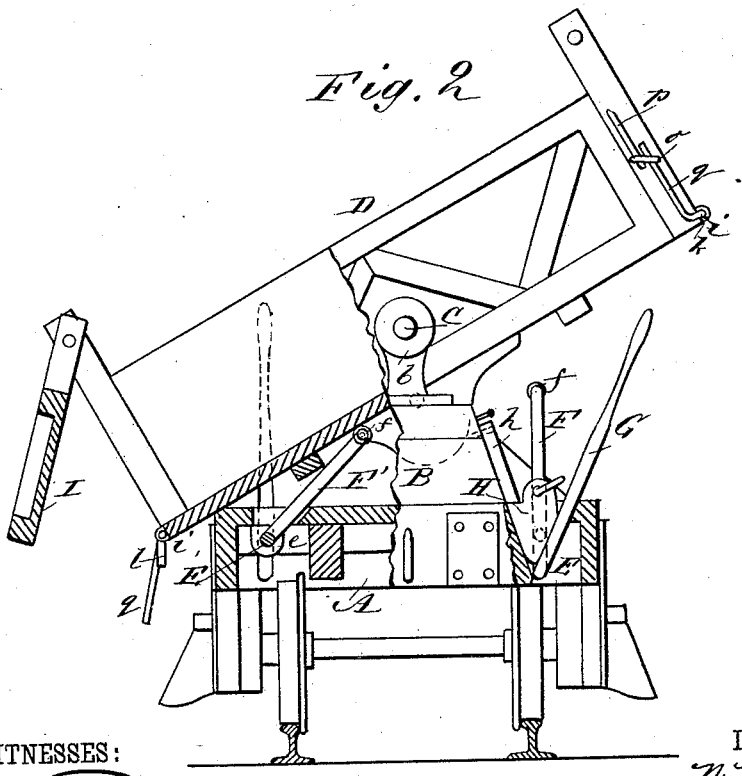


Fig. 2



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NICHOLAS MARNELL, OF SAVANNAH, GEORGIA.

DUMPING-CAR.

SPECIFICATION forming part of Letters Patent No. 342,526, dated May 25, 1886.

Application filed March 25, 1886. Serial No. 196,532. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS MARNELL, of Savannah, in the county of Chatham and State of Georgia, have invented a new and Improved Dumping-Car, of which the following is a full, clear, and exact description.

My invention relates to the construction of a cheap, efficient, and durable dumping-car, that is permanently mounted and supported by trunnions, and so arranged that its load can be dumped upon either side of the track.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side view of my improved car, the platform being shown in section to disclose the construction of the parts; and Fig. 2 is an end view of the car, the view being taken in partial vertical section.

In constructing such a dumping-cart as is illustrated in the drawings above referred to, I provide a platform-car, A, upon each end of which there is arranged a vertical standard, B, having bearings *b*, in which the trunnions C of the box D are mounted, said trunnions being made fast to and projecting outward from about the center of each end of the said box D, from which construction it will be seen that the box is free to tilt to either side.

Although the box D is mounted so as to be accurately balanced on its supports, it is necessary to hold it in positive position, and to this end I provide two rock-shafts, E E′, which are mounted in bearings *e e*, that are arranged beneath the flooring of the platform-car A, and provided with upwardly-extending arms F F′, that carry rollers *f f*, and which, when in vertical position, act to support the box D so that said box will be held in a horizontal plane.

In order that the car may be dumped when desired, the rock-shafts E E′ are provided with lever-arms G G′, which extend upward through the flooring of the platform-car A, and are arranged so that by turning the levers to about a vertical position the arms F or F′ may be thrown to the position shown on the left in Fig. 2, thus withdrawing the left-hand support of the box D, in order that it may tilt to the position shown, for the purpose of discharging its load.

In order that the arms F F′ may be locked in a vertical position, I provide wedges H, which are placed in the position shown best in Fig. 2, to prevent the lever from being thrown toward the center of the car, and are locked to place by swinging catch-arms *h*, which said catch-arms are pivotally connected to the standards B, and arranged to be thrown down to bear upon the upper faces of the wedges H.

Each side I of the box D is pivotally connected to the corner-posts of the said box D, as indicated in Fig. 1, and clearly shown in Fig. 3; and in order that the said sides I may be prevented from swinging open during transit, I arrange a rock-shaft, *k*, in connection with each of the swinging sides, these rock-shafts being secured to place by staples *i i*, and having arms *l l*, which extend upward in front of the lower edges of the sides I, in which position the shafts are held by means of a ring, *o*, held by a staple, *p*, said ring *o* being arranged to engage with an upwardly-extending arm, *q*, formed on one end of each of the shafts.

From the construction described it will be seen that after the box D has been filled, and the car transported to its destination, the dumping of the load is a very easy matter, for by simply disconnecting one of the rings *o* from engagement with its arm *q*, and by throwing the arms F or F′ upon that side to the position shown on the left in Fig. 2, the box may readily be tilted and its load dumped.

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

1. The combination, with a truck or platform car provided with standards, of a box having swinging sides and trunnions, which trunnions ride in bearings formed in the standards of the truck, rock-shafts formed with upwardly-extending arms, and manipulating-levers, and wedges H, substantially as described.

2. The combination, with a truck or platform car formed with standards B, and carrying rock-shafts E E′, formed with arms F F′, levers G G′, wedges H, and swinging arms *h*, of a box, D, formed with trunnions C, that rest in bearings formed in the standards B, swinging sides I, and side locking devices consisting of shafts *k*, carrying arms *l* and *q*, and a ring,

o, carried by the staple *p*, substantially as described.

3. The combination, with a truck or platform car formed with standards B, and carrying rock-shafts E E′, formed with arms F F′, having rollers *f f*, levers G G′, wedges H, and swinging arms *h*, of a box, D, formed with trunnions C, that rest in bearings formed in the standards B, swinging sides I, and side locking devices consisting of shafts *k*, carrying arms *l* and *q*, and a ring, *o*, carried by the staple *p*, substantially as described.

his
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mark.

Witnesses:
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