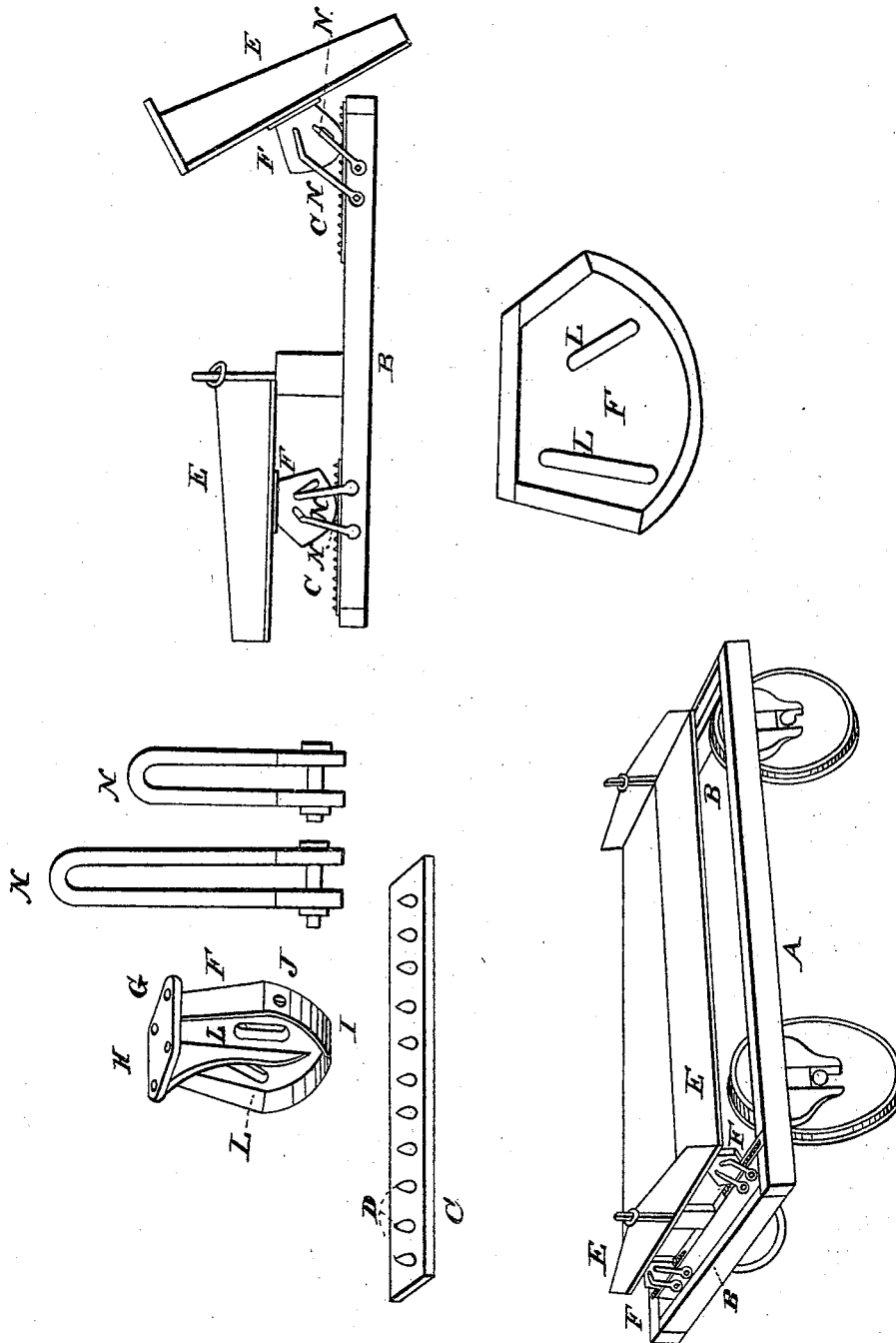


M. BERNEY.
Dumping Car.

No. 6,712.

Patented Sept. 11, 1849.



UNITED STATES PATENT OFFICE.

MICHAEL BERNEY, OF SYRACUSE, NEW YORK.

CAR FOR DUMPING EARTH, &c.

Specification of Letters Patent No. 6,712, dated September 11, 1849.

To all whom it may concern:

Be it known that I, MICHAEL BERNEY, of the city of Syracuse, in the county of Onondaga and State of New York, have invented a new and useful Improvement in Dumping-Cars; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification.

The nature of my invention consists in providing dumping cars with rockers and clevises in such a manner that the bodies of the cars may be easily overturned and their contents discharged, and at the same time allowing the body to be placed upon the frame at a less distance from the ground than in earth cars heretofore in use.

Construct a running frame (A) with four wheels in the usual manner well known to car makers. To the cross-timbers (B) of the frame (A) attach iron cog plates (C); the cogs or teeth (D) being made conical. Construct the bodies (E) of the car in a suitable manner for holding earth, being divided lengthwise in the center in order that half of the load may be discharged on each side of the car. Construct rockers (F) of iron, in height about nine inches, and of sufficient thickness to give them the requisite strength to sustain the weight of the body (E) and its loading. Make flanges upon the upper part (G) with holes (H) for the passage of both in attaching it to the body of the car. Make the lower portion (I) circular or elliptical and its thickness corresponding with the width of the cog-plate (C). In the circular or elliptical surface (I) make holes (J) corresponding with the conical teeth (D). Through the central portion of the rocker make two slots (L L) for the attachment of the clevises (N N). Attach the rockers by bolts to the under surface of the car body—at points corresponding with the position of the cog plates on the running frame—in such a manner that the holes in the under surface of the rocker rest upon the teeth of the cog-plate. For each rocker make two clevises (N N), one of greater length than the other, having one end circular and passing through the slots in the rocker, and the other open

with eyes for the passage of bolts by which they are attached to the cross-timbers of the car frame.

The operation of my invention is as follows:—By making the body of the car in two parts I am enabled to discharge the loading upon each side of the car. Each part may be easily overturned by one man, and as the parts require less movement in overturning than would be requisite in a single car-body, it is obvious that the body may be placed lower upon the frame than in single car bodies, and thus requiring less labor in elevating the earth to be loaded.

To each part (E) of the body is attached two rockers, and two clevises working in the slots of each. Place the two parts of the body together making one continuous platform. Place the earth upon it in the same manner as if it was a single car-body. The weight of the loading tends to keep the two parts in contact. By elevating or drawing outward either part, the action of the rockers carries the parts of the body toward the sides of the framework, parting the load in the center, and afterward dumping it at the side of the car. The shorter clevis (N) serves to prevent the rocker from bounding off the cogplate while running and the longer clevis (N) serves to limit the inclination of the car body while being dumped, the slots allowing a play of the clevises in order to obtain the requisite motion of the rockers. The cogplates and cogs serve to keep the rockers from slipping upon the frame.

The advantages of my invention are as follows: By placing the car body nearer the ground than heretofore, a great saving of labor is effected in loading. The car body being nearly on a balance, is easily tilted, and its contents discharged by one man.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the rocker and clevises with the double car-body, substantially as described, and for the purpose set forth.

MICHAEL BERNEY.

Witnesses:

GROVE LAWRENCE,
CORNELIUS LYNCH.