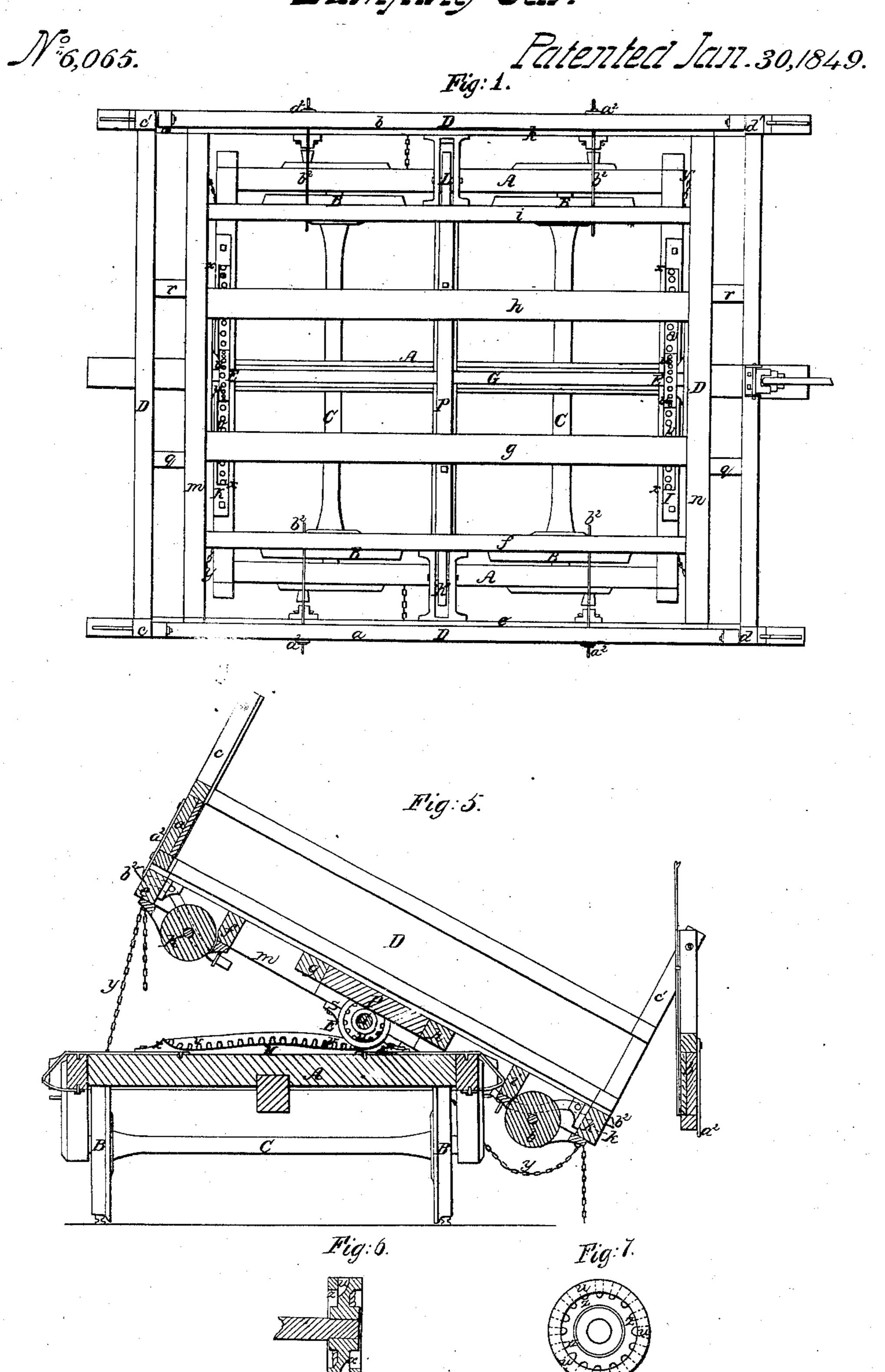
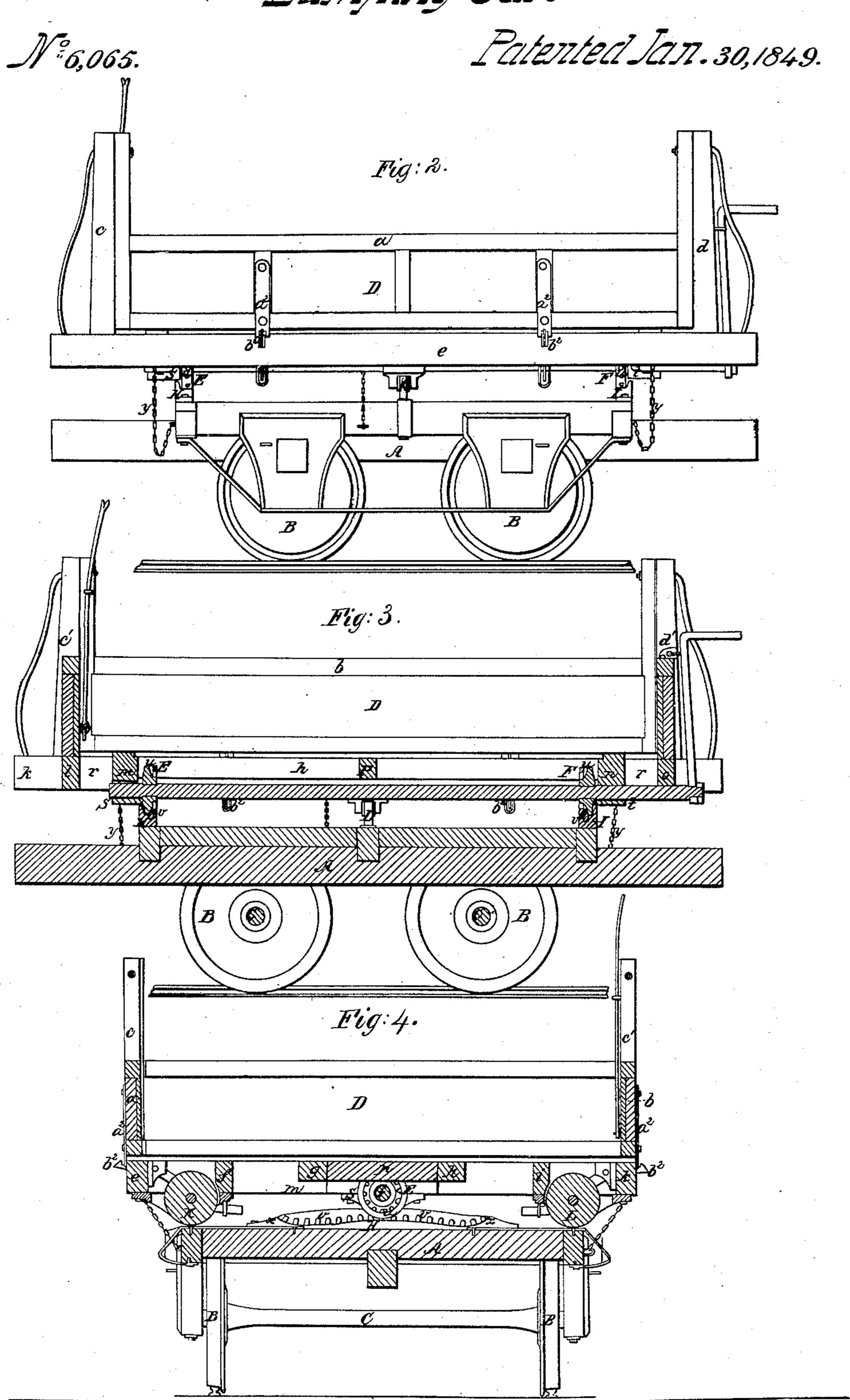
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NITED STATES PATENT OFFICE.

ALPHEUS NETTLETON, OF SPRINGFIELD, MASSACHUSETTS.

DUMPING-CAR.

Specification of Letters Patent No. 6,065, dated January 30, 1849.

To all whom it may concern:

and State of Massachusetts, have invented 5 a new or Improved Railway Dumping-Car; and I do hereby declare that the same is fully described and represented in the following specification and accompanying drawings, letters, figures, and references thereof.

Of the said drawings Figure 1, denotes a top view of my improved dumping car, the flooring boards of which are represented as removed, in order to exhibit the mechanism beneath them. Fig. 2, is a side elevation of 15 the said car. Fig. 3, is a central vertical and longitudinal section of it. Fig. 4, is a transverse section, and Fig. 5, is another transverse section, in which the body of the car is shown, when in an inclined position for 20 the purpose of discharging its contents.

The common excavating or dumping car, on which my car is an improvement, has its body supported on large semicircular arcs, which rest and roll laterally on the truck frame. In order to bring the body into a proper inclination, so that the dirt, or whatever it may contain, may be properly discharged, it becomes necessary to make the sweeps or semicircular arcs of so large radius 30 as of necessity will elevate the body of the car to a very inconvenient height above the road track, the same rendering it very difficult if not impossible to use such cars in a train with the common merchandise cars, as 35 their bumpers cannot generally speaking be arranged on a level with those of the merchandise cars. My improvement in the manner of constructing a dumping car, not only admits of the body of the car being arranged 40 at the same height above the track as those of the merchandise cars, but presents all the advantages of dumping or discharging earth, coal or other matters which are to be found in the common dumping car to which I have 45 hereinbefore alluded.

In the drawings A, represents the truck frame, which is a rectangular frame made to rest on the axles of the wheels, the housings of the boxes of the axles or other contrivances for supporting the said boxes being affixed to said frame, B, B, etc., are the wheels, and C, C, the axles.

D, is the car or wagon body, whose width and length is somewhat greater respectively than those of the truck frame as seen in the drawings. Each one of the two opposite

sides a, b, of the body, is suspended or Be it known that I, Alpheus Nettleton, | hinged to the tops of two posts, \hat{c} , d, c', d', of Springfield, in the county of Hampden in such manner as to admit of its being turned up, or maintaining its vertical posi- 80 tion, when the car body is inclined in order to discharge a load, the same being shown in Fig. 5.

> The longitudinal floor timbers of the said car body, are seen at e, f, g, h, i, k, and the 65 transverse ones at l, m, n, o. A middle brace or tie p, is made to extend between the two central longitudinal timbers. There are also two short ties or braces, q, r, inserted and fixed between each two transverse timbers 70

l, m, and n, o.The car body is provided with two small wheels E, F, fixed upon a longitudinal shaft or axle G, which extends from the timber m, to the timber n, and is supported by and 75so as to be capable of turning or revolving on its axis, in two boxes s, t, fixed respectively to the undersides of the two timbers m, n. The two wheels rest and roll upon two transverse parallel rails or bearing 80 plates H, I, bolted or otherwise properly secured down upon the top of the truck frame. In order that the car body may always maintain its correct position on the rails or bearing plates H, I, each of the wheels E, F, has 85 its periphery perforated with a series of holes or openings u, u, etc., disposed at equal distances apart, which holes operate in connection with a set of teeth or projections v, v, v, etc., raised above the surface of each 90 of the said rails or bearing plates, that is to say, as the wheels roll over or on the plates. the pins or teeth v, v, etc., respectively enter the holes of their wheels, and thus keep the axle of the said wheels under all circum- 95 stances parallel to its position when directly over the middle of the truck frame. Each bearing plate is made to incline a little each way from its middle as seen in Figs. 4, 5, and to turn upward at its end, as seen at 100 x, x, in order to form a stop for the wheels to bear against when the body of the car is tilted or inclined. In order to effectually prevent the car body from running off the truck frame, one or two chains y, may be at- 105 tached to the axle frame and the truck frame as seen in the drawings. The holes made through the rim of each of the wheels E, F, may each be made to open through it, as seen at z, in Figs. 6, and 7, (the former being a 110 section of a wheel and the latter a side view of it) or in any other convenient manner, so

as to enable the pins or projections v, v, etc. to crowd or force through the rim any dirt or extraneous matter which may accidentally get into any one or more of the said holes.

5 The body of the car is provided with two or more projecting bearing blocks of timber or rollers K, L, which when it is brought into a central position with respect to the truck frame, rest on the side timbers of the truck 10 frame, and prevent the body from tilting until the same is moved far enough laterally to move one of the blocks or rollers entirely off the truck frame.

Each side a, b, of the car body has one or 15 more stops a^2 , applied to it, which strike or abut against the timber, e or k, and prevent the flap or side from moving farther inward. A latch lever b^2 , is also to be affixed to the bottom of the car, and made so as to 20 latch the side or flap when in a vertical position, and so hold it until it is unlatched.

I do not claim the mode of supporting a car body by means of semicircular arcs or

rockers affixed thereto, and made to rest and rock on the top of the truck frame, as the 25 same has heretofore been effected, but that which I do claim is—

My improvement or mechanism for sustaining and operating the car body, the same consisting in the rollers or small wheels E, F, 30 and their rail or bearing plates, as constructed combined together, and with the body and truck frame, and made to operate the car body substantially as above specified. my said invention enabling me not only to 35 construct a dumping car much lower than others in general use, but so low as to be used in trains with common merchandise

In testimony whereof I have hereto set my 40 signature this first day of June, A.D. 1848.

ALPHEUS NETTLETON.

Witnesses:

Eliphaz Jones,
James Eastman.