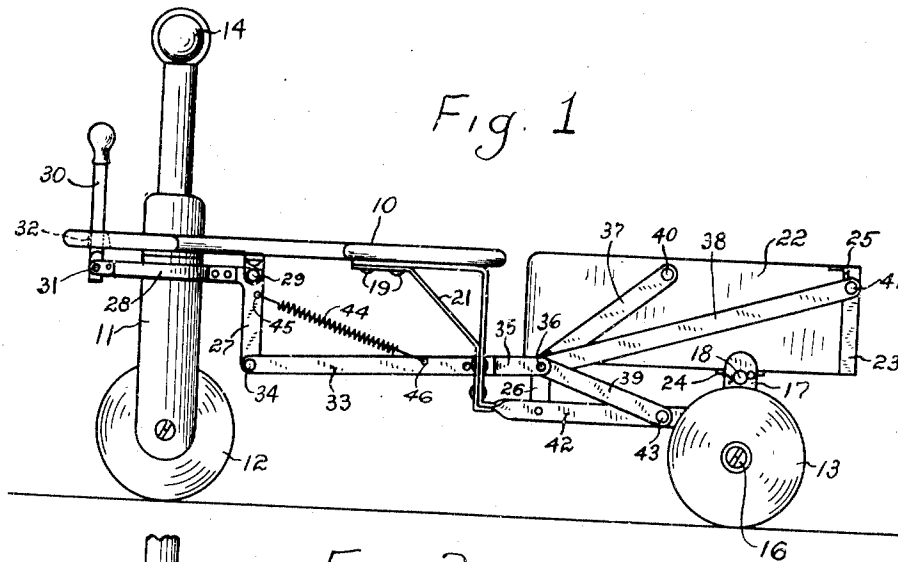
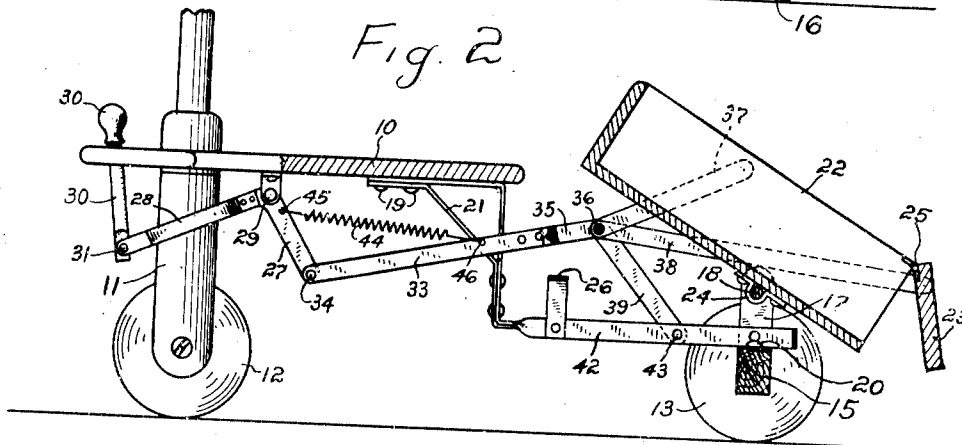
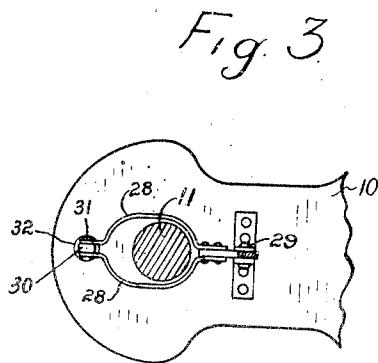


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THREE WHEEL DUMP CART.
APPLICATION FILED APR. 8, 1920.

1,373,000.

Patented Mar. 29, 1921.



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CHARLES E. GILBERT AND ANDROV H. CARLSON, OF BRIDGEPORT, CONNECTICUT.
THREE-WHEEL DUMP-CART.

1,373,000.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, CHARLES E. GILBERT and ANDROV H. CARLSON, citizens of the United States, residing at 293 William St., Bridgeport, and Fairfield Ave., Bridgeport, county of Fairfield, State of Connecticut, have invented an Improvement in Three-Wheel Dump-Carts, of which the following is a specification.

This invention provides an unique riding toy of a well known three wheel variety. Toys of the type referred to are ordinarily equipped with a flat seat, two rear wheels and a single front wheel. The rear wheels are mounted in a suitable support which is attached to the underside of the flat seat. A guide post, provided at its upper end with steering mechanism, such as a cross bar or a steering wheel, is pivotally mounted in the front portion of the flat seat and carries the front wheel.

The object of the present invention is to supply a riding toy of the described variety which possesses the desirable features of toys of the present type heretofore known, and which possesses additional desirable and attractive features. To this end, we have produced a novel three wheel riding toy which is adapted to carry a novel cart body upon a running gear, and we have incorporated novel mechanism in our toy whereby the contents of the cart body can be dumped at will either while moving or while standing.

The invention comprises the construction and arrangement of parts as now to be fully described and hereinafter specifically claimed.

In the accompanying drawing forming a part of this specification,

Figure 1 is a side elevation of the novel toy;

Fig. 2 a longitudinal sectional view; and

Fig. 3 is a fragmentary inverted plan view of the front portion of the flat seat, showing the guide post in section.

10 denotes the flat seat, 11 the guide post, 12 the front wheel, 13 the rear wheels and 14 the steering mechanism of the novel toy. The rear wheels are pivoted to opposite ends of a block 15, as indicated at 16. A U-shaped bracket is attached to the upper face of the block and has upwardly extending arms 17. 18 denotes a spindle carried by arms 17. The rear end of the flat seat is supported from block 15 by means of Z-shaped sup-

porting members which are attached to the seat near the side edges thereof, as indicated at 19, and to the arms of the U-shaped bracket at the points designated 20. 21 denotes braces for the supporting members.

A cart body, having sides 22 and a pivoted tail gate 23, is pivoted on spindle 18 and is provided with brackets 24 for this purpose. The pivotal point of the tail gate is denoted 25. As disclosed in Figs. 1 and 2, brackets 24 are to the rear of the midlength of the cart body, so that when the body is in horizontal position its front end rests on cross strip 26, the downwardly extending arms of which are connected to the Z-shaped supporting members as shown. Cross strip 26, in addition to supporting the front end of the cart body, holds the Z-shaped supporting members in fixed relation with respect to each other.

A bell crank lever having a straight arm 27 and an arm 28 which is yoked about the guide post, as more clearly shown in Fig. 3, is pivoted to the underside of the flat seat in any desired manner, as indicated at 29. A control lever 30 is pivoted to the outer end of yoke arm 28 as indicated at 31, and in the portion of the flat seat that is in front of the guide post there is an opening 32 in which the control lever freely slides. It will be at once apparent that the bell crank lever need not be yoked about the guide post. Its forwardly extending arm may be straight and the opening in the flat seat may be to the rear of the guide post, or the forwardly extending arm may be so made and arranged that the bell crank lever can be actuated from the steering mechanism. So far as the present invention is concerned, there is a bell crank lever, or equivalent, which is manipulable from control means extending above the flat seat. We have found the structure specifically described to be very satisfactory.

33 denotes a connecting bar the forward end of which is pivoted to the outer end of arm 27, as indicated at 34. As shown, the connecting bar comprises two flat strips riveted together. Arm 27 is pivoted between the strips as will be understood. Near their rear the flat strips are bent outwardly and from each other and the outwardly bent portions are each bent rearwardly to provide attaching arms 35 which are positioned a trifle beyond the sides of the cart body, as shown. The outer end of each of arms 35

carries a pivot pin, denoted by 36, and on each of the pins are pivoted three toggle arms 37, 38 and 39. The other ends of the toggle arms are pivoted respectively to the sides of the cart body, as indicated at 40, to opposite ends of the tail gate, as indicated at 41, and to lower arms 42 of the Z-shaped supporting members, as indicated at 43.

The manner of dumping the cart body will be apparent. When the control lever is given a downward push so that it moves from the position of Fig. 1 to that of Fig. 2, the bell crank lever is thrown on its pivot so that arm 27 thereof moves rearwardly and causes the connecting bar to force the toggle arms to spread from their positions in Fig. 1 to their positions in Fig. 2. That is, arms 37 and 39 move from each other to tilt the cart body rearwardly, and arm 38 moves rearwardly and forces the tail gate to turn on its pivot and be swung from the rear end of the body.

A coil spring 44 connected at one of its ends to arm 27, as indicated at 45, and at its other end to connecting bar 33, as indicated at 46, will return the cart body to its normal position when the control lever is released, as will be clear.

While a specific embodiment of the invention has been fully described, it is to be understood that such changes in details of construction and arrangement of parts may be made as fall within the scope of the appended claims.

What we desire to claim is:

1. In a dump cart of the character described, a cart body provided with a pivoted tail gate, a control lever, a bell crank lever pivoted to the control lever and having a connecting bar pivoted to it, and toggle

arms pivoted to the connecting bar and to the sides of the cart body, to the tail gate thereof, and to fixed parts of the dump cart, respectively, whereby actuation of the control lever causes the cart body to tilt and the tail gate to swing on its pivot and away from the cart body.

2. A toy vehicle, comprising a flat seat, a running gear, a pivoted cart body provided with a pivoted tail gate, a control lever, and dumping mechanism extending between the cart body and control lever, said dumping mechanism comprising a bell crank lever, a connecting bar pivoted thereto, and toggle arms pivoted to the connecting bar and to the sides of the cart body, to the tail gate thereof, and to fixed parts of the toy vehicle, whereby when the control lever is actuated the cart body is tilted and the tail gate is swung on its pivot and away from the cart body.

3. A toy vehicle of the character described, comprising a seat, a running gear, a pivoted cart body carried by the running gear and provided with a pivoted tail gate, a control lever, and dumping mechanism extending between the control lever, tail gate and cart body, said dumping mechanism comprising a bell crank lever pivoted to the control lever, a connecting bar pivoted to the bell crank lever, and toggle arms pivoted to the connecting bar, to opposite sides of the cart body, to opposite ends of the tail gate thereof, and to fixed parts of the toy vehicle.

In testimony whereof we affix our signatures.

CHARLES E. GILBERT.
ANDROV H. CARLSON.