H. T. KINGSBURY.

TOY DUMP WAGON.

APPLICATION FILED JULY 22, 1916.

1,224,935.

Patented May 8, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

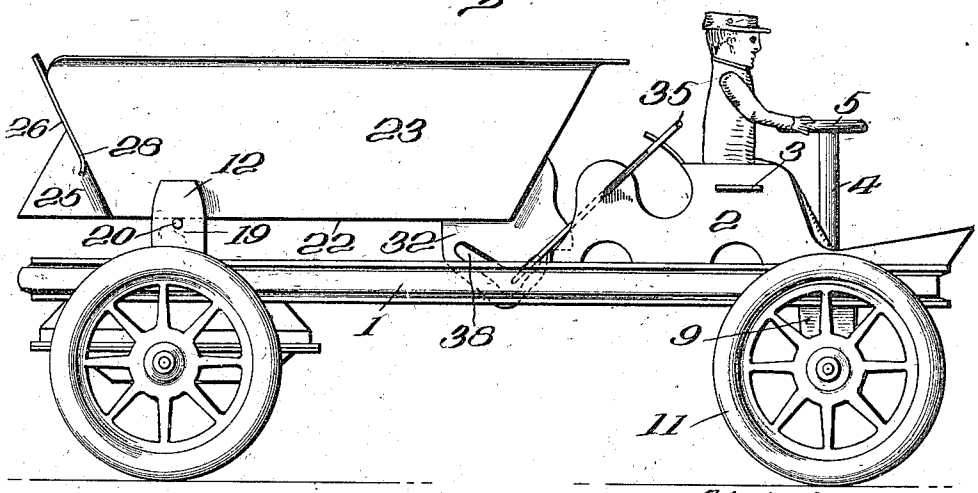


Fig. 2.

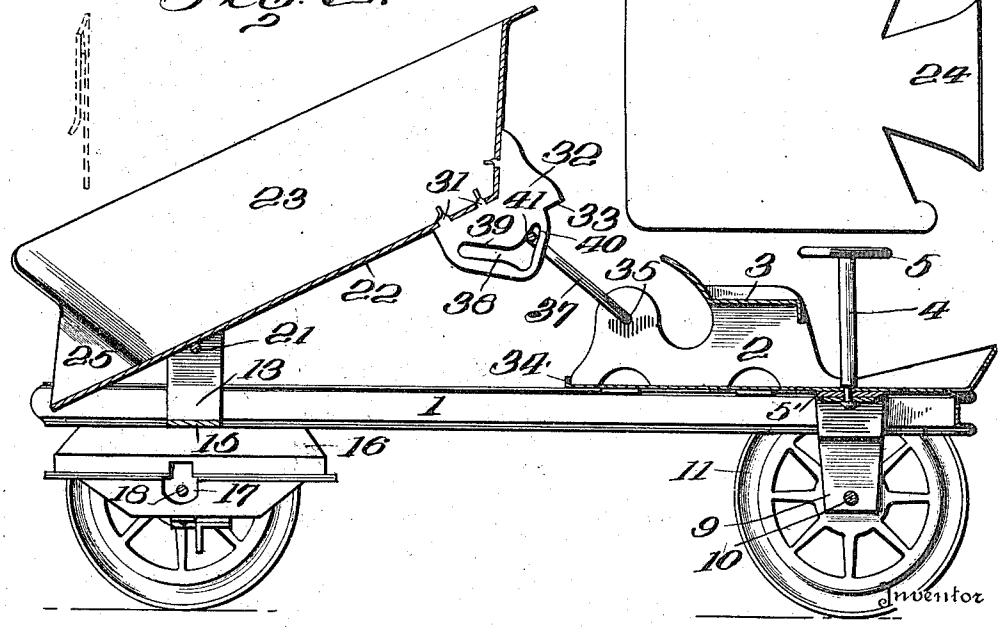


Fig. 5.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

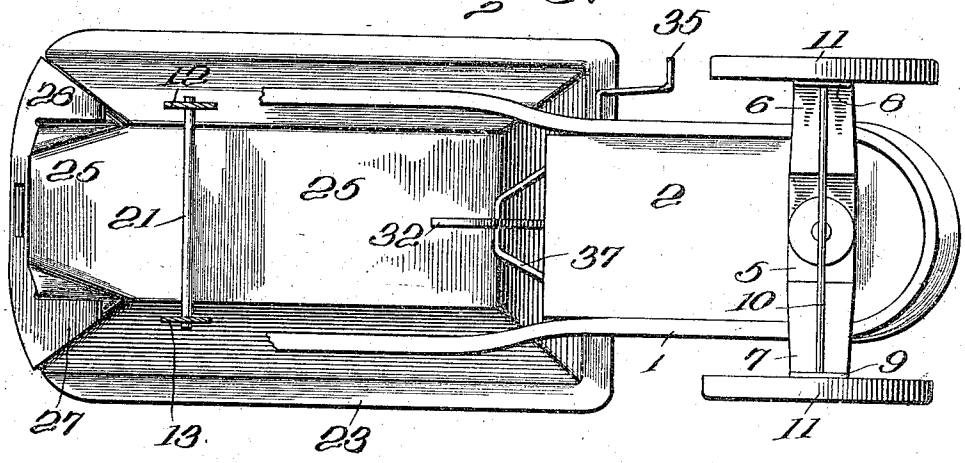
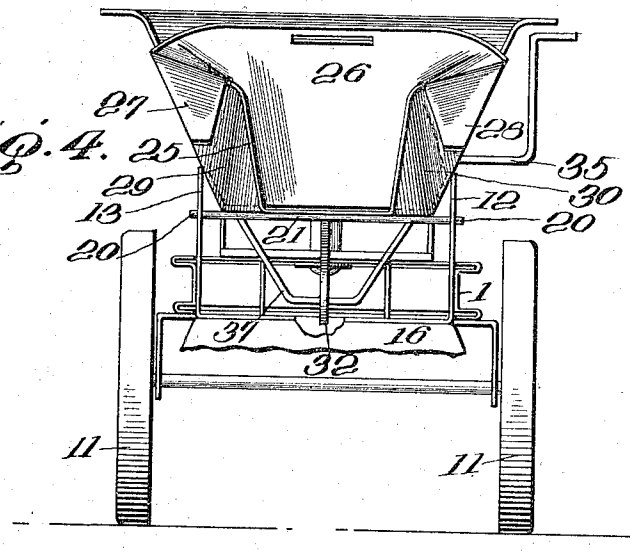


Fig. 4.



Witnesses

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HARRY T. KINGSBURY, OF KEENE, NEW HAMPSHIRE.

TOY DUMP-WAGON.

1,224,935. Specification of Letters Patent. Patented May 8, 1917.

Application filed July 22, 1916. Serial No. 110,756.

To all whom it may concern:

Be it known that I, HARRY T. KINGSBURY, a citizen of the United States, residing at Keene, in the county of Cheshire, State of New Hampshire, have invented certain new and useful Improvements in Toy Dump-Wagons, of which the following is a description, reference being had to the accompanying drawing and to the figures of reference marked thereon.

My invention relates to improvements in toy dump wagons.

An object of my invention is to provide a self-propelled toy dump wagon in which the body is stamped from a blank sheet of metal and having means whereby the body is dumped and held in said dumped position.

Another object of my invention is to provide a simple, cheap and effective toy of this character having certain details of structure and operation and combination of parts hereinafter more fully set forth.

In the accompanying drawings:—

Figure 1 is a side elevation of a toy dump wagon embodying my invention;

Fig. 2 is a vertical longitudinal sectional view showing the body of the wagon in its dumped position;

Fig. 3 is a bottom plan view showing a portion of the running gear broken away;

Fig. 4 is an end view of Fig. 1; and

Fig. 5 is a plan view of the blank of which the body is formed.

Referring now to the drawings, 1 represents a U-shaped frame having between the forward ends the frame 2 provided with the seat 3 and a steering column 4 having the wheel 5, all of which is understood and needs no further description.

Secured to the underside of the frame 2 is a band 5′, which passes downwardly on the inside of the frame 1 and turned outwardly at 6 and 7 and upon which the frame 1 rests. The outer ends of the members 6 and 7 are turned downward at 8 and 9 and in which is rotatably mounted the axle 10 carrying the forward wheels 11.

The rear end of the frame 1 is secured to the vertical ears 12 and 13 carried by the plate 15 secured to the upper face of the motor casing 16 and said casing also resting against the under face of the frame 1. The lower face of the motor casing is provided with downward extending ears 17 in which is rotatably mounted the shaft 18 of the rear wheels and said shaft is driven by the motor in the casing all of which is well understood and needs no further description.

The upper ends of the ears 12 and 13 are provided with oppositely arranged openings 19 in which is mounted the extended ends 20 of the shaft or rod 21 rigidly secured to the under face of the bottom 22 of the body 23 of the wagon and whereby said body can be rocked upon the shaft so that it can be dumped. The body 23 is formed of a blank shown in Fig. 5 and a tongue 24 forms the front of the body when the blank is bent into form. The rear edge of the body is bent to form a chute 25 and said chute is closed by the tail gate 26 which is stamped from a sheet of metal and having the tongues 27 and 28 bulged rearwardly and adapted to pass on the outside of the portions 29 and 30 of the rear end of the body on each side of the chute 25, and the enlarged central portion between the tongues goes on the inside of the portions 29 and 30 and thereby the tail gate is held in position yet is free to slide upwardly.

The lower face of the body has secured thereto by means of lugs 31 the plate 32 which extends upwardly along the outer face of the forward end, as fully shown in Fig. 2 of the drawings. The plate 32 has extension 33 at its forward end which rests upon the transverse bar 34 of the frame 2 by means of which the body is supported in a horizontal position as clearly shown in Fig. 1 of the drawings. The frame 2 is provided with oppositely arranged vertical ears in which is rotatably mounted the shaft 35, which carries a crank 36 at one end for oscillating the same. The shaft 35 between the ears is provided with a crank 37 which passes through the L-shaped slot 38 in the plate 32 and whereby the forward end of the body is moved upwardly and supported in said upward or tilted position by the crank as will be presently described.

The crank when the body is in its lower position, is at a point shown in Fig. 1 of the drawings. When the crank 36 is pushed downwardly the crank 37 rides rearwardly upon the wall 39 of the slot 38 and moves the body upwardly. The crank travels rearwardly along said wall and after the body has been raised a certain distance, the crank starts on its forward movement on the wall 39 and continues to move the body upwardly until the crank enters the portion 40 of the

L-shaped slot and engages the wall 41 and the body is locked against downward movement as clearly shown in Fig. 2 of the drawings.

In order to release the body all that is necessary is to raise the crank which throws the crank 37 downwardly until it passes the wall 41 of the slot when the body is allowed to drop by gravity or to be gradually lowered by the crank riding over the wall 39 in the reverse manner as described in the raising of the body.

It is obvious that minor changes in the details of construction may be made without departing from the spirit of the invention, as set forth in the appended claims.

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

1. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame at the forward end of the body, and means carried by the crank shaft for raising and lowering the forward end of the body.

2. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame at the forward end, and a crank connection between the crank shaft and the body for raising and lowering the same.

3. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame at its forward end, a crank carried by the shaft and passing through an L-shaped slot in the body and means for oscillating said crank shaft whereby the forward end is raised and supported in the raised position by the crank shaft.

4. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame at its forward end, a vertically disposed plate carried by the forward end of the body and having an L-shaped slot therein, and a crank carried by the crank shaft and passing through the slot whereby the forward end of the frame is raised and supported by the crank.

5. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame at its forward end, a vertically disposed plate carried by the forward end of the body and having an L-shaped slot therein, a crank carried by the shaft and passing through said L-shaped slot, and means whereby said crank shaft is oscillated whereby the crank engages the walls of the slot and raises the forward end of the body and supports it in its raised position.

6. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame at its forward end beyond the body, a vertically disposed plate carried by the bottom of the body at its forward end and having an L-shaped slot therein, a crank carried by the shaft and passing through the said L-shaped slot, and means for oscillating said crank shaft whereby the crank rides rearwardly and then forwardly on the wall of the slot and raises the body and enters the vertical slot and supports the body in its raised position.

7. A toy dump wagon comprising a frame, wheels supporting the frame, a motor for driving the rear wheel, a body pivoted at its rear end to said frame, a crank shaft mounted in the frame beyond the forward end of the body, and a crank connection between the crank shaft and body for raising and lowering the forward end thereof.

8. A toy dump wagon, comprising a frame, a body pivoted at its rear end to the frame, a crank shaft mounted in the frame beyond the body, a vertically disposed plate secured to the bottom of the body at its forward end and having an L-shaped slot therein, a crank on one end of the shaft for oscillating the same and a crank carried by the shaft and passing through the said L-shaped slot whereby the crank rides rearwardly on the upper wall of the slot and then forwardly and raises the body and enters the other leg of the slot and supports the body in its raised position.

9. A toy dump wagon, comprising a U-shaped frame, wheels supporting the frame, a motor carried by the rear end of the frame and driving the rear wheels, upwardly extending ears carried by the frame beyond the body, a horizontally arranged crank shaft mounted in said ears, a vertically disposed plate secured to the bottom of the body at its forward end and having an L-shaped slot therein, a crank carried by the shaft between the ears and passing through the L-shaped slot and a crank carried by one end of the shaft on the outside of the ears for oscillating the shaft, whereby the crank rides rearwardly on the upper wall of the slots and raises the body and then forwardly continuing the upward movement of the body and enters the other leg of the slot and supports the body in its raised position.

In testimony whereof, I affix my signature, in the presence of two witnesses.

HARRY T. KINGSBURY.

Witnesses:
CHESTER L. KINGSBURY,
HELEN G. CLARK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."