No. 770,775. PATENTED SEPT. 27, 1904.

H. M. NORRIS.

COVERED VEHICLE.

APPLICATION FILED JULY 9, 1904.

NO MODEL.

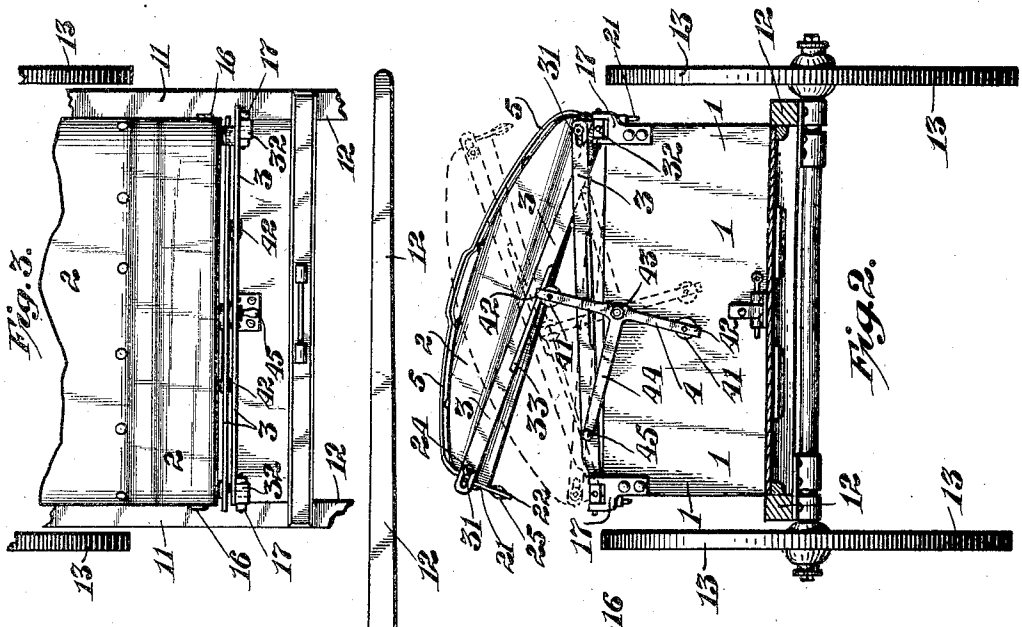


Fig. 3.

Fig. 2.

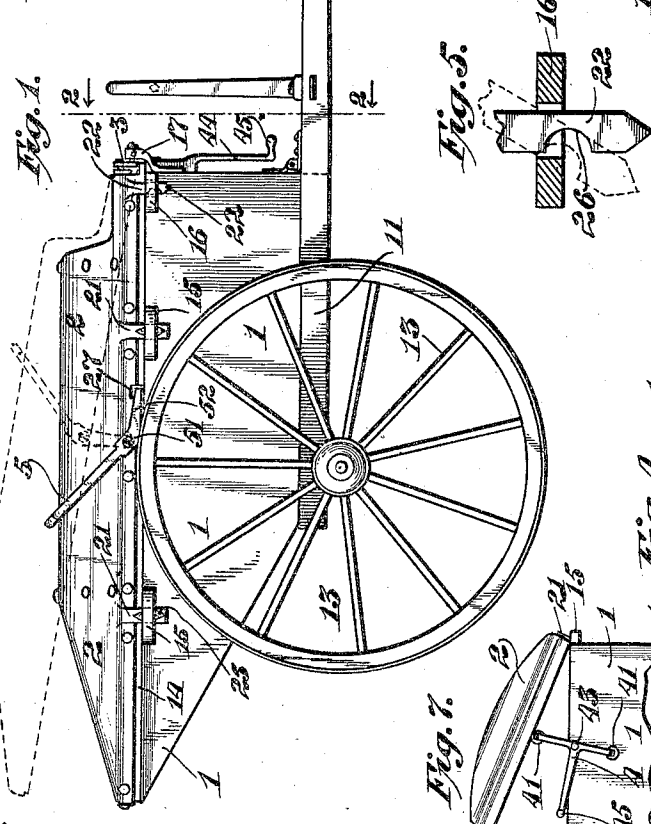


Fig. 1.

Fig. 5.

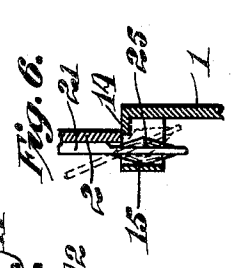


Fig. 6.

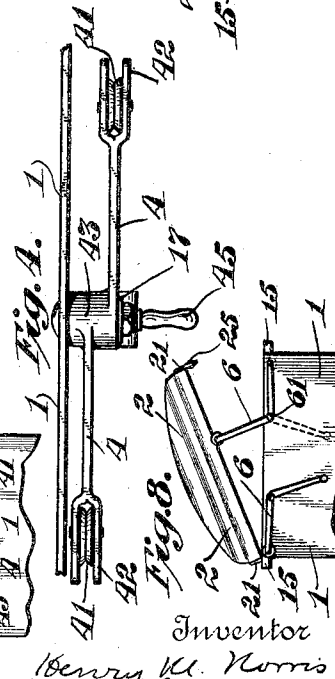


Fig. 4.

Fig. 7.

Fig. 8.

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No. 770,775. Patented September 27, 1904.

UNITED STATES PATENT OFFICE.

HENRY M. NORRIS, OF NEW YORK, N. Y.

COVERED VEHICLE.

SPECIFICATION forming part of Letters Patent No. 770,775, dated September 27, 1904.

Application filed July 9, 1904. Serial No. 215,884. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. NORRIS, a citizen of the United States, residing at No. 338 East Fifteenth street, in the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Covered Vehicles, of which the following is a specification.

My invention relates to covered vehicles and provides means for conveniently tilting the cover from either side and from the end, means for preventing its accidental displacement from the body of the vehicle while in any of its elevated positions, and means for detachably locking it in any of such positions.

While one or all of the features of my invention may be applied to vehicles of various forms, I have for convenience shown it as embodied in a two-wheeled dump-cart, such as is used in the collection of garbage or other refuse.

Figure 1 is a side elevation of a dump-cart. Fig. 2 is a vertical section of the same through the plane 2 2, Fig. 1. Fig. 3 is a partial top plan view of the cart. Fig. 4 is a plan view of a portion of the device on an enlarged scale. Figs. 5 and 6 are fragmentary sectional views of details to be hereinafter described. Figs. 7 and 8, on a reduced scale, are partial front elevations, each showing a modification.

Referring first to Figs. 1 to 6 of the drawings, 1 designates the body of a cart, of which 11 is the frame, 12 the shafts, and 13 the wheels. At each side of the upper edge or rim 14 of the body 1 are sockets 15 16, shown as three in number, the sockets 16 being adjacent the front end of the body. Secured to the front of the body near its upper and outer corners are pivot members 17. The cover 2 of the cart is, as shown, of convex form and adapted to rest closely on the rim 14 of the body 1. It has on each side depending lugs 21 22, corresponding in number and position to the sockets 15 16 and adapted to slip freely thereinto. Projecting forwardly from the front end 23 of the cover 2 and adjacent its sides are studs 24, playing in slots 31 at the ends of bars 3. Pivoted to the other ends of the bars 3 are blocks 32, themselves transversely pivoted to the members 17, the bars 3 crossing each other, as shown in Fig. 2 of the drawings. The lower edges of the bars 3 may be beveled, as at 33, to engage grooved pulleys 41, rotatable in the forked ends 42 of a T-shaped rocking lever 4. The lever 4 is fulcrumed at its center 43 on a stud 18, projecting from the front of the body 1 midway of its width and near its upper edge. The depending arm 44 of the lever 4 may have in its lower end a handle 45. Each of the lugs 21 of the cover 2 may be formed with transverse projections or bosses 25, as shown in Figs. 1 and 6, while the lugs 22 are preferably formed with recesses 26, clearly shown in Fig. 5. Pivoted at 51 on opposite sides of the cover 2 is a swinging bail 5, having extending ends 52 riding on the rim 14 of the body 1 and shown in Fig. 1 as received in recesses 27 of the cover 2.

The operation of my device will be readily understood from an inspection of the drawings. When it is desired to load the cart from its right side, the arm 44 of the lever 4 is shifted to the position shown in Fig. 2, whereby the pulley 41, riding on the bar 3, tilts the cover 2, as therein shown, the bar 3 turning on the block 32 as a pivot. As shown in dotted lines, Fig. 6, the bosses 25 will engage under the rim 14 at the left side of the cart, so that the sockets 15 and the lugs 21 on that side act as additional detachably-engageable hinge members, in which the cover 2 will freely turn without being dislodged from the body 1. As the lever 4 is thrown slightly beyond the perpendicular the cover will be maintained in its elevated position until the lever is manually returned to its normal position. (Shown in Fig. 1.) It is clear that the movement of the handle 45 in the opposite direction, as shown in dotted lines, Fig. 2, will act to raise the other side of the cover 2, so that a garbage-can may be emptied or street-dirt thrown in at the left side of the cart. When it is desired to dump the cart, the bail 5 is drawn forward to the position shown in dotted lines, Fig. 1, when the ends 52 will ride on the rim 14 of the cart-body and will raise the rear end of the cover, the

recess 26 in the forward lugs 22 engaging with the sockets 16, as shown in Fig. 5, to prevent the lifting of the forward end of the cover. At the same time the blocks 32 will turn in the pivot members 17. As before, the ends 52 of the bail may be thrown slightly beyond the vertical line, so that the cover will remain in its raised position until voluntarily depressed.

In the modified form of my device shown in Fig. 7 of the drawings the bars 3 and all their connecting parts are omitted. In this case the ends of the lever 4 bear directly against the rear flange of the cover 2, the engagement of the bossed lugs 21 in the sockets 15 alone being depended on to hold the non-detached side of the cover 2 to the body 1.

In respect of the omission of the bars 3, &c., the form of my device shown in Fig. 8 is similar to that shown in Fig. 7. It differs therefrom in substituting for the single T-shaped tilting-lever 4 two bell-crank levers 6, each pivoted at 61 at a point intermediate the center and the edges of the front wall of the body 1 and each solely operative to raise one side of the cover 2.

It will be seen that my device provides a strong durable construction in which the cover may be very closely fitted, which has no delicate parts to get out of order under the rough handling received by such vehicles, and which can be easily manipulated by one man standing either on the cart or on the ground. It will also be seen that by reason of the integrality of the cover 2 one side of the cover is in operation always closed, so that when ashes or dirt is being thrown into the cart from one side it is impossible that it should be thrown over the other side, as no matter how strongly thrown it will be deflected by the cover 2 down into the body 1 of the cart.

It is understood that certain features of my invention may be used either separately from or in connection with certain others, that any suitable material may be employed, that many mechanical alterations may be made both in the form and the arrangement of parts, so that without enumerating equivalents

What I claim is—

1. A vehicle-body, an integral cover therefor, and means for alternately raising either side of said cover.

2. A vehicle-body, an integral cover therefor, means for alternately raising either side of said cover, and means for maintaining said cover in either of such raised positions.

3. A vehicle-body and a cover provided at opposite sides with detachably-engageable coacting hinge members, and means for alternately raising either side of said cover.

4. A vehicle-body and a cover provided at opposite sides, one with a plurality of lugs, the other with a plurality of sockets adapted to receive said lugs, and means for alternately raising either side of said cover.

5. A vehicle-body and a cover provided at opposite sides, one with a plurality of lugs having transverse projections, the other with a plurality of sockets adapted to receive said lugs, and means for alternately raising either side of said cover.

6. A vehicle-body, a cover therefor, detachably-engageable coacting hinge members on said body and said cover at opposite sides thereof, and a rocking-lever for alternately raising either side of said cover.

7. A vehicle-body, a cover therefor, detachably-engageable coacting hinge members on said body and said cover at one end thereof, and means for raising the opposite end of said cover.

8. A vehicle-body, a cover therefor, detachably-engageable coacting hinge members on said body and said cover at one end thereof, and means for raising the opposite end of said cover and for maintaining it in such raised position.

9. A vehicle-body, a cover therefor, detachably-engageable coacting hinge members on said body and said cover at one end thereof, and a swinging bail pivoted to one of said first-named parts and bearing against the other for raising the opposite end of said cover.

10. A vehicle-body, a cover therefor, a plurality of detachably-engageable coacting hinge members on opposite sides of said body and said cover, means for alternately raising either side of said cover, and means for raising one end of said cover.

11. A vehicle-body, a cover therefor, a plurality of detachably-engageable coacting hinge members on opposite sides of said body and said cover, means for alternately raising either side of said cover, and means for raising one end of said cover, one of said coacting hinge members being located adjacent one end of said body and said cover and being operative when the opposite end of said cover is raised.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY M. NORRIS.

Witnesses:
E. VAN ZANDT,
GEO. L. COOPER.