



GARBAGE WAGON.

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Arthur J. Sangster.
Henry C. Ashbery

Mark S. Hubbard
Truman H. Gilbert, Inventors
By James Sangster,
Attorney.

UNITED STATES PATENT OFFICE.

MARK S. HUBBELL AND TRUMAN H. GILBERT, OF BUFFALO, NEW YORK.

GARBAGE-WAGON.

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To all whom it may concern:

Be it known that we, MARK S. HUBBELL and TRUMAN H. GILBERT, citizens of the United States, residing in Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Garbage-Wagons, of which the following is a specification.

Our invention relates to an improved vehicle for transporting and dumping garbage and will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the wagon and its several parts complete, showing also by dotted lines the position of the removable garbage holder when dumping the garbage, one side supporting frame for the angular gear-arm being omitted. Fig. 2, is a front end view of the wagon and its removable garbage holder, showing one of its covers (by dotted lines) opened to receive the garbage or other material for which it may be adapted. Fig. 3, is a side elevation of the wagon and its garbage holding frame, the gearing for tilting the garbage holder being omitted so as to show the frame portion more clearly. Fig. 4, is an enlarged rear end view of the garbage holder, showing the means for fastening the cover when closed. Fig. 5, represents an enlarged side elevation of the rear portion of the garbage holder, showing a similar view of the fastening device and the interposed packing material.

Referring to the drawings, 1 represents the usual wagon reach, it is rigidly secured to the rear axle, 2, and to the front axle frame piece, 2^a, by a king bolt, 3, (shown by dotted lines in Fig. 2) made in the usual and well known way. The under side of the wagon reach is provided with a strengthening brace 3^a—3^b, (shown in Figs. 1 and 3) when great strength is required. The wheels 4 and 4^a, are made and secured to the axle in the usual and well known manner.

To the top of the wagon reach (which is preferably made of iron to insure sufficient strength) is rigidly secured the upwardly projecting frame pieces, 5, in which is mounted a shaft, 5^a, so as to turn therein, on one end of the shaft, 5^a, is rigidly secured a worm gear, 6, and on the opposite end is a miter

gear wheel, 6^a, there is another shaft, 7, mounted in suitable supporting boxes or bearings, one of which is shown at 8 in Fig. 3. At one end of the shaft, 3, is a miter gear wheel, 8^a, shown in Fig. 1, the gear wheel, 8^a, is adapted to gear in with the miter gear, 6^a. At the opposite end of the shaft, 7, is a hand wheel, 9, see Figs. 1 and 2.

On the top of the wagon reach are two more frame pieces 10 and 10^a, rigidly secured to opposite sides of the reach and directly opposite each other. Between these two frame pieces, 10 and 10^a, is pivoted by a pin, 11, an angular arm, 12, having at its lower end a sector shaped portion provided with a series of teeth, 13, adapted to gear in with the worm gear, 6. At the opposite end of the angular arm 12 (which is forked) is pivoted a friction roller, 14. From the above description it will be seen that by turning the hand wheel, 9, the worm gear can be made to operate the angular arm 12, so as to either raise or lower the friction roller, 14, so that when the roller 14, is in its normal position, as in Fig. 1, the garbage receptacle will also be in its normal position, but when raised to the position shown by the dotted line roller, 14^a, the garbage receptacle will be tilted or in its dumping position, substantially as shown in said Fig. 1.

At the top of the wagon are secured two side frame pieces, 15, each having their rear ends (which curve downward) rigidly secured to the rear axle, 2. At the front they are secured by a cross-bar, 16, which is rigidly secured to or formed in one piece with said side frame pieces.

To the cross bar, 16, are secured a seat, 17, and a foot step, 18, supported by a brace, 19, for the driver.

The front ends of the frame pieces, 15, are supported in their vertical position by the curved bars, 20—20^a, which extend down to the top of the reach and are rigidly connected to a cross bar 21, through which the king bolt, 3, passes and is secured in the usual way.

Within the frame pieces, 20—20^a, is a curved cross bar 22, adapted to receive and hold the forward end of the garbage holder.

On each side frame piece, 15, is secured a foot step, 23, for the use of the operator when necessary.

At the top of the rear curved portions of

the frame pieces, 15, are two journal boxes each having the top portion, 24, hinged at the end 25, and having their opposite ends adapted to be secured by a thumb screw, 26, so that
 5 these boxes are easily opened or closed when necessary.

The garbage receptacle, 27, is preferably made of boiler or sheet iron riveted together in the usual way. At the front end is a ring,
 10 28, and at the rear end are two more similar rings, 28^a and 28^b, see Figs. 1, 2 and 4, their object being to provide the means for connecting tackle to for lifting and moving the garbage receptacle when necessary.

15 At the top of the garbage receptacle, near the front end are two doors or covers hinged at the point, 29, by an ordinary hinge joint, these covers are adapted to be used at either side of the receptacle, when one of these covers is open the other is closed, as will be readily understood from the drawings Fig. 2. The
 20 lower or rear end is provided with a cover, 30, secured by a hinge, 31, at the top. This cover is provided with an interposed packing, 32, of elastic material, india rubber for instance.

Pivoted to the end of the garbage receptacle is a series of hand screws, 33, these hand screws are adapted to be turned up through openings, 34, in the cover, 30, when closed,
 30 and then screwed tightly so as to hold the cover when shut, gas tight, or substantially so, see Figs. 4 and 5, where these fastening devices are more clearly shown. One being shown at *i* in Fig. 4, as loosened and turned
 35 back off from the cover, in which position all should be when it is necessary to open the cover. The top covers are also rigidly secured by hand screws 35, when closed.

The garbage receptacle, 27, is provided with
 40 two trunnions, 36, one on each side which fit in the boxes 24, so as to be capable of being tilted, and of being easily removed when required as hereinbefore mentioned.

The operation of the device will be readily
 45 understood from the foregoing description and accompanying drawings.

We claim as our invention—

1. In a garbage wagon, the combination with a supporting frame mounted upon and secured to the wagon, of a garbage receptacle
 50 provided with trunnions mounted in journal boxes on said frame and adapted to be tilted up or down, a screw gear mounted in bearings on the wagon reach, an angular arm also mounted in a frame on said reach having
 55 teeth at one end adapted to engage with the screw gear, a friction roller pivoted to its opposite end and means for turning the screw gear for tilting the garbage receptacle, substantially as described.

2. In a garbage wagon, the combination with the wagon of a supporting frame mounted upon and secured to said wagon, two journal boxes mounted upon said supporting frame
 65 each having a hinged upper half capable of being opened or closed and secured when closed, two curved bars extending down to a cross bar and secured to the wagon by a king bolt, a seat and foot step at the front of the
 70 frame, a step on each side of the frame, a curved cross bar for receiving and holding the front or upper end of the garbage receptacle, and mechanism mounted on the reach for tilting the garbage receptacle substantially as described.

3. A garbage wagon provided with a tilting mechanism and having a supporting frame
 75 mounted on the axles and provided with journal boxes adapted to be readily opened and closed, in combination with a removable garbage receptacle provided with trunnions
 80 adapted to fit in said journal boxes and with openings for the inlet and outlet of the garbage, means for closing said openings air tight and for opening them when required, and
 85 means for attaching a tackle to remove the garbage receptacle from the wagon, substantially as described.

MARK S. HUBBELL.
 TRUMAN H. GILBERT.

Witnesses:

JAMES SANGSTER,
 J. M. CALDWELL.