

(No Model.)

3 Sheets—Sheet 1.

J. REIFSNIDER.
GARBAGE CART.

No. 579,179.

Patented Mar. 23, 1897.

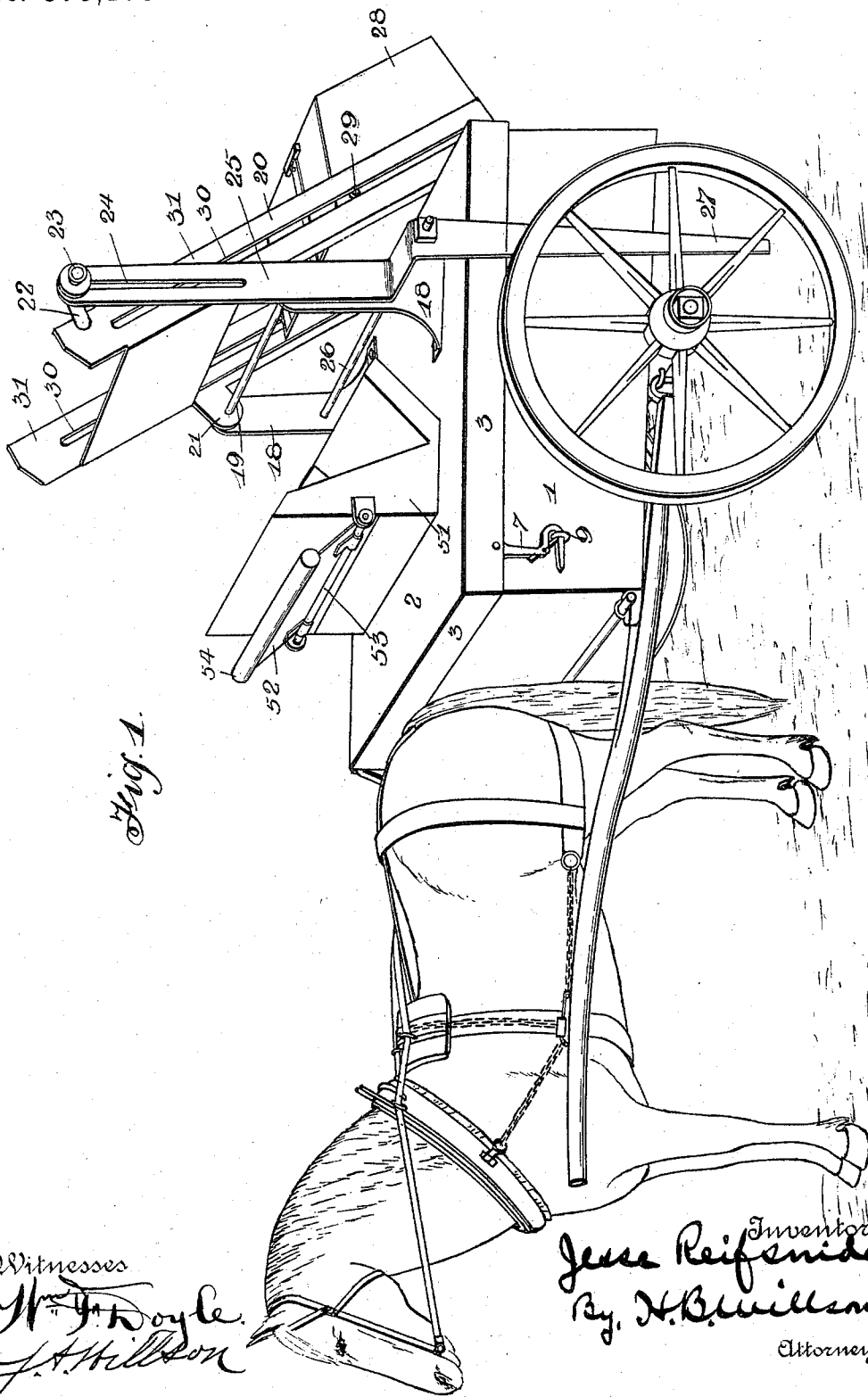


Fig. 1.

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Fig. 2.

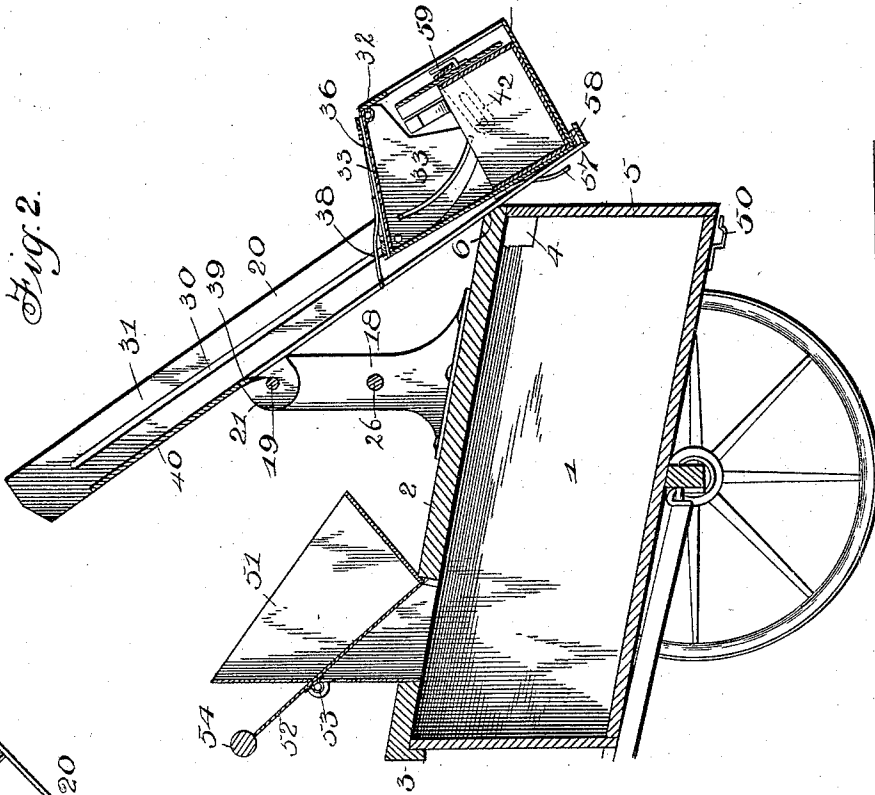
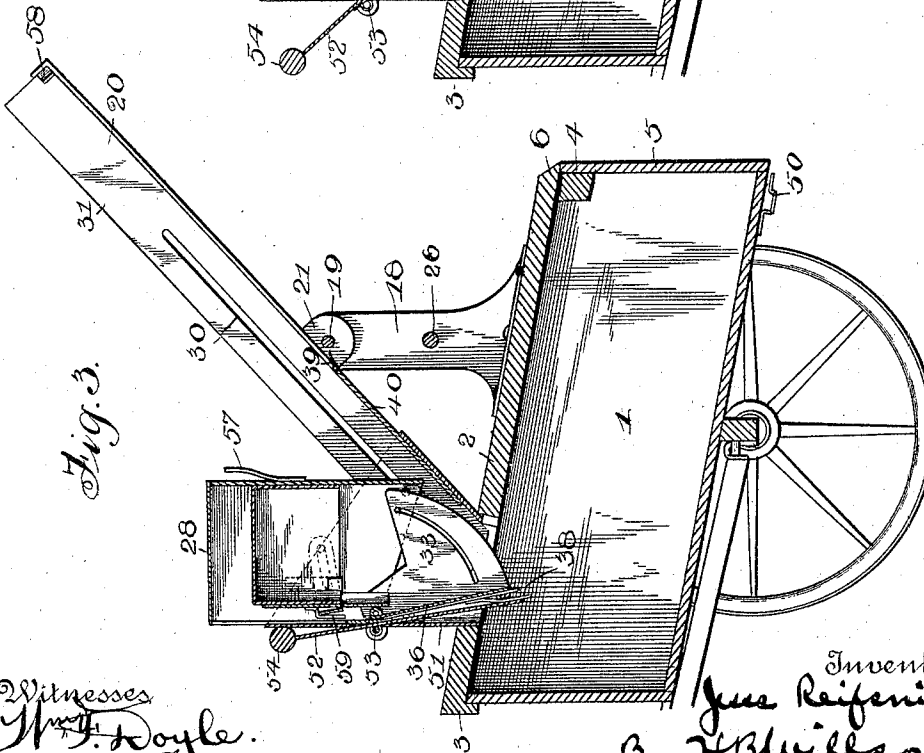


Fig. 3.



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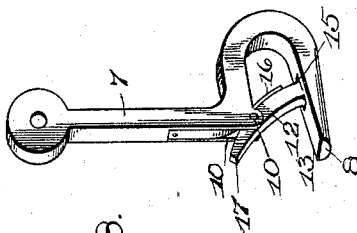
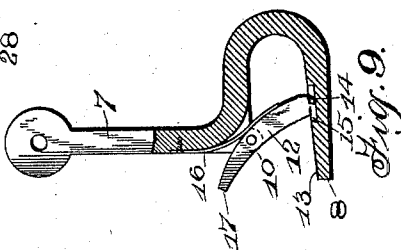
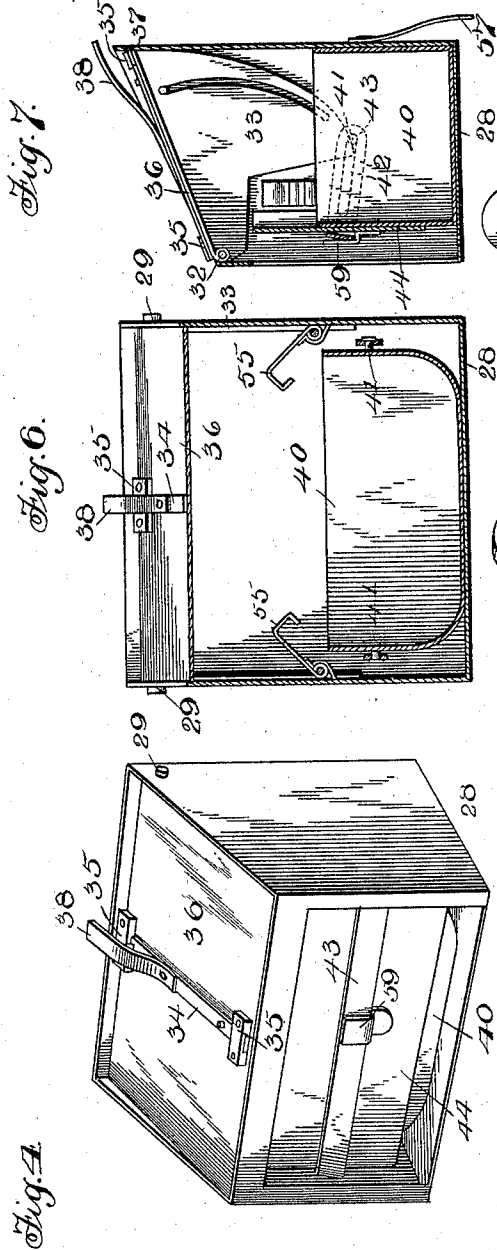


Fig. 8.

Fig. 5.

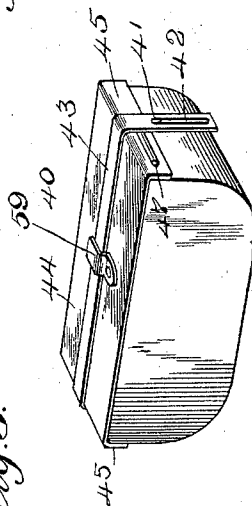
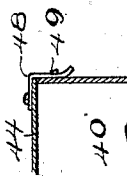


Fig. 10.



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UNITED STATES PATENT OFFICE.

JESSE REIFSNIDER, OF BALTIMORE, MARYLAND.

GARBAGE-CART.

SPECIFICATION forming part of Letters Patent No. 579,179, dated March 23, 1897.

Application filed July 18, 1896. Serial No. 599,669. (No model.)

To all whom it may concern:

Be it known that I, JESSE REIFSNIDER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Garbage-Carts; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in garbage-carts; and the object of the invention is to provide a means for the convenient sanitary collection and transportation of garbage and other noxious refuse in cities.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same figures of reference indicate the same parts of the invention.

Figure 1 is a perspective view of my improved garbage collecting and transporting cart as it appears in operation. Fig. 2 is a longitudinal central section of the same. Fig. 3 is a similar view showing the manner of depositing the garbage in the cart. Fig. 4 is an enlarged perspective view of the carrier detached from the cart. Fig. 5 is a similar view of the portable receiver. Fig. 6 is a longitudinal section of the carrier with the receiver in place. Fig. 7 is a transverse section of the same. Fig. 8 is a perspective view of the self-locking hook used in securing the detachable cover on the cart. Fig. 9 is a longitudinal section of the same, and Fig. 10 is a detail of the closure for the receiver.

1 represents the body of the cart, provided with a removable cover 2, having an external flange 3 extending along the two sides and the front of the cart and an internal flange 4 extending across the end of the cart inside of the tail-board 5, the projecting ledge 6 of the cover extending over the tail-board and forming a support for the carrier, which rests against it.

7 represents a pivoted hook of novel construction, one of which is secured to the flange 3 of the cover on each side, and its integral

tongue 8 engages a staple 9, secured to the bottom of the cart. The shank of this hook is formed with integral ears 10 10, between which is fulcrumed a lever 12, the lower beveled end of which closes down on the face 13 of the tongue, while an integral projecting spur 14 engages the longitudinal recess 15 in the face 13.

16 is a leaf-spring, one end of which is secured to the shank of the hook, and its free end presses against the lower end of the lever to press it into contact with the tongue. The projecting upper end 17 of said lever forms a handle, and by pressing downward on said handle the lower end of the lever may be raised from the tongue and the hook released from the staple, while to engage the hook with the staple it is only necessary to enter the tongue into the staple and press it forward, the staple striking against the under side of the lever 12, which is raised and rides over the staple. After the end of the lever has passed the staple the spring 16 closes the lever down, with its beveled end resting on the tongue and the spur 14 resting in the recess 15, thus positively locking the hook against any chance of accidental release or displacement.

18 18 are standards secured to the cover 2, in which is journaled a shaft 19, on which is fulcrumed an oscillating chute 20, the integral supporting-ears 21 21 of which encompass the shaft 19 and support the chute in an inclined position, as shown. A bracket 22 is secured to the upper end of said chute at one side, and said bracket is provided with a laterally-projecting stud 23, which projects into a slot 24 in the upper end of the lever 25, fulcrumed on the shaft 26, journaled in the standards 18 18, and the lower end of this lever 25 forms a handle 27, by means of which the lever may be operated.

28 is a rectangular carrier having laterally-projecting studs 29 29, which engage the slots 30 30 in the side rails 31 of the chute, so as to permit the carrier to slide freely in said chute, and also allow said carrier to tilt forward, as shown in Fig. 3, when the chute 20 is in the position shown. This carrier is provided with a forwardly-inclined door 36, secured to the carrier by hinges 32, having side flanges 33

33, which open out with the door and form extensions to the sides of the carrier when it is tilted to discharge its contents.

34 is a gravity-bolt sliding in guides 35 35 on the outside of the hinged door 36, its lower end engaging a recess 37 in the bottom of the carrier to lock the door.

38 is a downwardly-projecting arm rigidly secured to the bolt 34, its lower end extending into the space in the chute formed between the side rails when the carrier is in the position shown in Figs. 1 and 2; but as the chute is tilted in the opposite position and the carrier slides forward and downward in the chute the projecting end of the arm 38 strikes the inclined lip 39 of the forward bottom portion 40' of said chute and rides over it, releasing the bolt 34 and allowing the door to swing open, as shown in Fig. 3. When the position of the chute is reversed, the carrier slides backward, and after the arm 38 has passed the bottom 40' of said chute the bolt 34 falls by gravity and locks the door 36, as above described.

40 represents the portable garbage-receiver of any convenient size and dimensions, its ends being provided with studs 41 41, which engage the slots 42 in the bail 43 and permit said bail to be swung around out of the way of the cover 44. This cover is formed with two end flanges 45 45, having slots 46, which engage pins 47, projecting from the ends of the receiver, this construction permitting the cover to be slid back and dropped down along one side of the receiver, as shown in Fig. 2. The forward end of this cover is provided with a spring-clip 48, which engages a lug 49 on the side of the receiver and secures the cover in position against accidental displacement in transportation.

50 50 are hooks secured underneath the rear end of the cart, from which the receiver is suspended by its bail when not in use.

51 is a hopper located in the forward end of the cart-cover 2 and communicating with the interior of the cart by means of a gravity-valve 52, fulcrumed on a shaft 53, mounted in the forward end of the hopper. This valve is provided at its outer end with a counter-balance 54, which normally closes the valve and practically seals the hopper against the escape of all noxious odors.

The receiver is placed in the carrier in the position shown in Fig. 2 with the cover set to one side and held there by the bail engaging the flat hook 59 on the top of the cover, and the handle 27 of the lever 25 is then raised to reverse the position of the chute. When said chute has passed the horizontal position, the carrier slides forward in the chute, the ends of the receiver 40, as it slides forward in the carrier, engage the pivoted hooks 55 55 in the ends of the carrier and hold the receiver in the carrier, while permitting it to discharge its contents through the open door 36 and the valve 52, which has been forced open by the beveled forward end

56 of the chute. The contents of the receiver are thus automatically and almost instantly discharged into the cart, and a reverse movement of the lever 25 reverses the position of the chute, allowing the carrier to fall back to its original position in the chute and to slide back in the lower end thereof when the chute is restored to its first position. (Shown in Fig. 2.) A projecting flat spring 57, secured to the bottom of the carrier near its rear end, comes in contact with the bottom of the chute and breaks the force of the concussion when the carrier returns to its first position in the chute, and a similar spring 58 is located in the rear end of said chute to take up the recoil of the carrier as it slides down and back to the position shown in Fig. 2.

As before stated, the system of transferring the contents of the receiver to the cart is performed automatically and instantly and without any exposure or the escape of any dust or dirt from the receiver. It will be found a very simple, convenient, and sanitary system of collecting and transporting garbage and the like in crowded cities.

The hook 7 is a very complete device in itself for the purpose intended, and it may be used for a variety of other purposes.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A portable garbage-receptacle, comprising the receiver 40, the ends of which are provided with studs 41, a rectangular bail 43 formed with slots 42 engaging said studs, in combination with a hinged cover 44, the end flanges of which are provided with slots 46 engaging the pins 47 on the ends of said receiver, substantially as and for the purpose set forth.

2. A portable garbage-receptacle, comprising the receiver 40, the ends of which are provided with studs 41 and pins 47, in combination with the bail 43 having slots 42, and the hinged cover 44, having slots 46, spring-clip 48, and flat hook 59, substantially as shown and described.

3. A garbage-cart, comprising the hopper 51 having gravity-valve 52, the standards 18 18, the oscillating chute 20 fulcrumed on the shaft 19, journaled in said standards and provided at one end with the arm 22, in combination with the lever 25 fulcrumed on the shaft 26, mounted in said standards, and having its slotted end 24 engaging the arm 22 on said chute, substantially as and for the purpose set forth.

4. A garbage-cart, comprising the oscillat-

ing chute 20, the side rails of which are provided with longitudinal slots 30, in combination with the sliding carrier 28, having lateral studs 29 engaging the slots 30 in said chute, substantially as and for the purpose set forth.

5. A garbage-cart comprising the oscillating chute 20, the side rails of which are formed with longitudinal slots 30, in combination with the sliding carrier 28, having lateral studs 29, engaging said slots and provided with the hinged door 36, provided with the gravity-bolt 34, substantially as and for the purpose set forth.

6. A garbage-cart comprising the hopper 51 having gravity-valve 52, the standards 18 18, the oscillating chute 20, fulcrumed on the shaft 19 journaled in said standards and provided with the arm 22, engaging the slot 24 in the upper end of the lever 25, the carrier 28 provided with studs 29 29 engaging the slots 30 in said chute, and the hinged door 36, having gravity-bolt 34, in combination with

the removable garbage-receiver 40, substantially as described.

7. A garbage-cart comprising the hopper 25 51, pivoted valve 52, and the standards 18 18, the oscillating chute 20 mounted in said standards, the lever 25, fulcrumed in the standards, its slotted upper end engaging an arm 22 on said chute, the carrier 28 provided 30 with studs 29 29, engaging the slots 30 in said chute, and provided with the pivoted hooks 55 55, in combination with the detachable receiver 40 provided with studs 41 and pins 47, and having the pivoted bail 43 and the hinged 35 cover provided with the spring-clip 48 and the bail flat hook 59, substantially as and for the purpose set forth.

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

JESSE REIFSNIDER.

Witnesses:

THOS. J. POLLARD,
EDWARD A. KEYSER.