

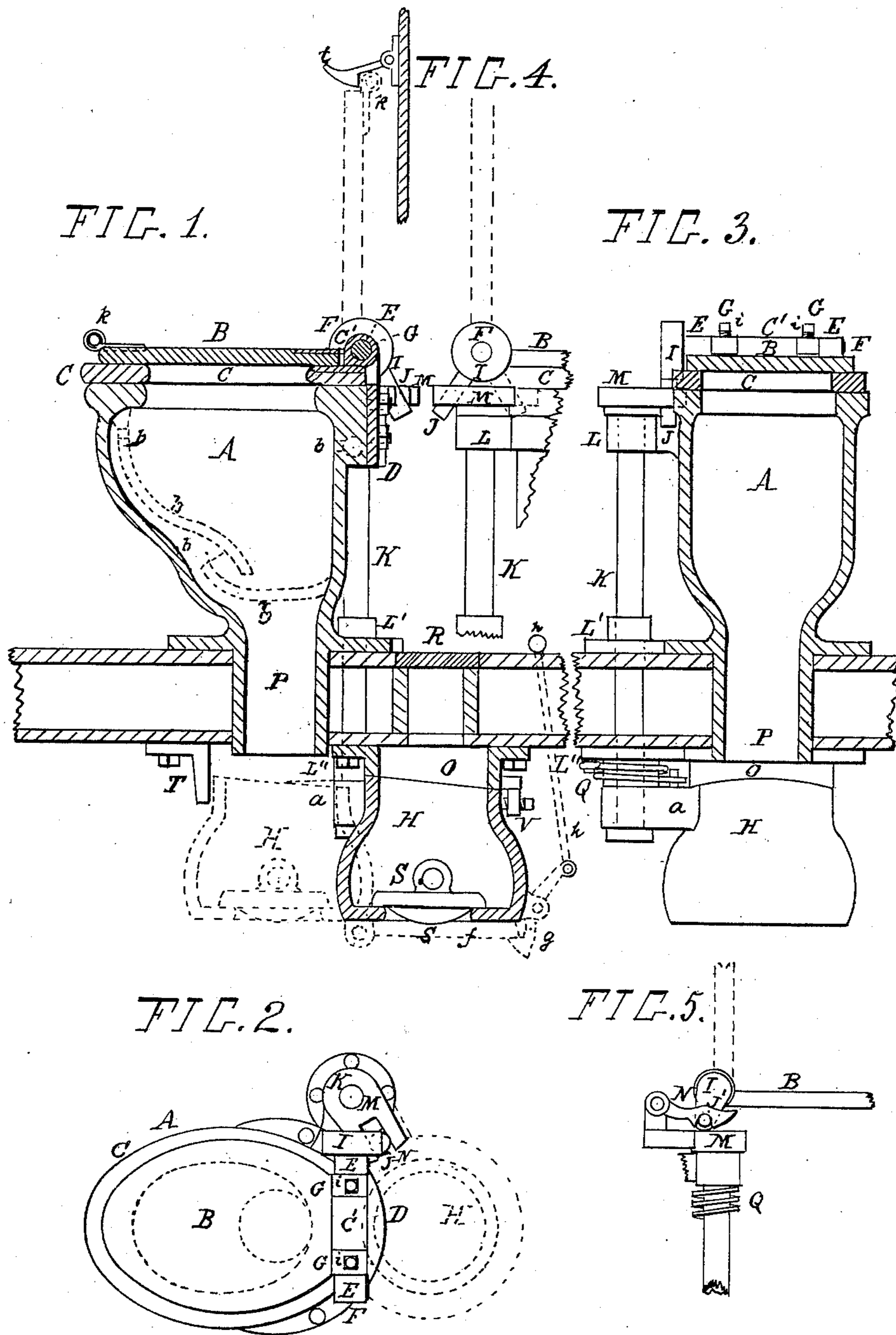
No. 652,252.

Patented June 26, 1900.

A. P. DODGE.  
RAILROAD CAR CLOSET.

(Application filed Apr. 29, 1899.)

(No Model.)



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# UNITED STATES PATENT OFFICE.

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## RAILROAD-CAR CLOSET.

SPECIFICATION forming part of Letters Patent No. 652,252, dated June 26, 1900.

Application filed April 29, 1899. Serial No. 714,951. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR PILLSBURY DODGE, a citizen of the United States, residing at New York city, State of New York, have invented certain new and useful Improvements in Railroad-Car Closets, of which the following is a specification.

The object of this invention is to provide a railroad-car closet which can be used while the train passes through a city or town or while stopping at railroad-stations without committing and causing nuisances at stations or streets or other objections to its use at such places.

Figure 1 represents a vertical longitudinal section of a closet provided and constructed according to my invention and shown in full lines in a position while not in use and in dotted lines in position while in use and also showing in full lines my improvement applied to a pot without provision of flush-water and showing in dotted lines the pot with provision of flush-water. Fig. 2 is a top view of the same. Fig. 3 is a vertical central cross-section of the same. Fig. 4 is a detached end view of the pivot-head of the cover-hinge and the vertical arbor-head engaged by the pivot-head. Fig. 5 represents a similar view of the same with a modification of the mechanism to transmit the motion from the pivot-head to the vertical arbor.

A indicates the closet-pot, and B the top cover, and C the seat between the cover and the top of the pot. The rear end of the pot has a vertical flat side, to which a strong vertical hinge-plate D is secured. The top portion of the hinge-plate has a strong horizontal level lateral eyes E, or bearings, in which a lateral horizontal hinge-pivot arbor F is guided. The rear end of the seat C has a single hinge-eye C' between the eyes E, occupying only a part of the central space between said eyes E and fitting loosely upon said arbor F. The top cover B has two eyes G G, one to each side of the eye C', and each eye G is fastened to the pivot-arbor F by a suitable set-screw i or otherwise. The arbor F has on the left-hand side of the pot a head I, with a radial downward-projecting arm J. The cover B on its loose end is furnished with a handle k. The vertical side of the wall, toward which

the cover B is swung, has a hook-latch t, which drops its hook over the handle k, attached on the end of the cover, and said latch after being engaged prevents the cover from dropping back on the seat unless released from the wall.

Underneath the car-bottom is provided a suitable receptacle H, which is attached to a vertical shaft K on the left side of the pot and journaled in the bearings L L' L'', of which the upper bearing L is either attached or forms part of the pot A, and the bearing L' is secured upon the floor of the car, and the bearing L'' is secured on the bottom side of the car-floor. The receptacle H has an arm a, through which the shaft K passes and is secured permanently to it. The end of the shaft below the arm of the receptacle is made with a large head to prevent the receptacle dropping from the shaft K. Upon the top end of the shaft K is furnished an arm or crank M, with a radial slot N, which is engaged by the radial arm J on the head I, so that the motion of the cover B, through the pivot-arbor F, the head I, and its arm J, is transmitted by engagement of the arm J in the slot N to the shaft K and the receptacle H. Back of the pot A is secured under the bottom of the car a large cap O, which serves to cover the receptacle H, in order to prevent any odor passing from said receptacle H. It will be observed when the cover B is down upon the seat, as shown in full lines in all figures, the pot A is not in use; but as soon as the cover is raised to the vertical position shown in dotted line its pivot is moved, and the arm J on its head engages the slot N of the arm or crank M, and thereby moves the receptacle H in position directly under the discharge-mouth P of the pot A in readiness to be used in case of the train being at the station or passing through a town. Now as soon as the cover B is placed upon the seat again said receptacle H is automatically moved under the cap O to prevent any odor from escaping. I prefer instead forcing the receptacle H back to the cap O to employ a spiral spring Q on the arbor K to move said receptacle back under the cap O quickly. On the car-bottom is provided a stop T to stop the receptacle positively at the relative position under the pot

A. A secondary stop V is provided on the cap O to engage a stop suitably arranged on said cap O.

The cover B is held upright to the wall by the latch *t* to prevent it from falling forward.

Now for the convenience of operating the closet satisfactorily while the train is in the station and also to operate the same when the train is not in a station nor passing through a town I employ instead of the arm J on the head I a stud J' on the head or a crank I, as shown in Fig. 5, and instead of the slot N, I provide on the crank M a suitable pivoted pawl N, by which when the pawl N with its loose end engages the stud J the same motion is imparted from the cover B to the receptacle H to operate the closet at the station; but when not at the station or passing a town the pawl N is simply raised and disengaged from the stud N and the closet is operated without the receptacle.

I have shown in full lines in Fig. 1 a pot A, adapted to operate without a water-flush provision. When desired to be used with water-flush provision, as shown in dotted lines, the pot A is simply selected from the class having water-flush provision and the partition *b* (shown in Fig. 1) and the improvement is fitted thereto.

To clean the receptacle H with facility, it may be made with a discharge-opening in its bottom, covered by a loose iron or clay cover S, having an eye formed on its top, as shown in Figs. 1 and 3. The receptacle H may be placed and held fast in position under the discharge-opening P by the hook *t*, and with an iron hook the cover S is raised, and by a hose with a strong flow of water the cleaning may be easily accomplished quickly. The cap O is also readily cleaned by having a suitable opening above it with a removable board in the floor and supplying the water with a hose.

Instead of providing the cover S for closing the opening in the bottom of the receptacle H a lid *f* may be hinged to the bottom of the receptacle, as shown in Fig. 1 in dotted lines. To close said opening and to hold the lid closed, a pivoted hook *g* may be employed, which has a pull-rod *h* attached to engage and disengage the hook from the inside of the car.

I claim as my invention—

1. In combination, the hopper, the receptacle movable to and from position under the same, a lid or cover for the hopper, automatically-operating connections from the lid or cover to the receptacle to move the same to and from position under the hopper, the discharge-opening of said receptacle being maintained closed irrespective of the position of the lid, substantially as described.

2. In combination, a hopper, a receptacle arranged in a lower plane in respect thereto and adapted to be placed in communication with the hopper to receive the contents thereof, a lid for the hopper, automatically-operating connections therefrom for placing the

receptacle in communication with the hopper or for cutting off said communication, the said connections including a detachable portion whereby the lid may be operated without actuating said connections, the said receptacle being then out of use and the contents of the hopper falling freely to the ground, substantially as described.

3. In combination, a hopper, a receptacle in a lower plane in respect thereto, means for placing said receptacle in or out of communication with the hopper, said means being connected with the cover, means for opening or closing the lower end of the receptacle and hand operating connections for actuating said closing or opening means, substantially as described.

4. In combination, a hopper, a receptacle adapted to swing in a horizontal plane to and from position under the hopper, a shaft K carrying said receptacle, a lid for the hopper and connections between said lid and shaft, substantially as described.

5. In combination, the hopper, a receptacle H, means for moving it laterally to and from position under the hopper while maintaining its vertical position and a bearing O against which the upper part of the receptacle seats itself when moved aside, substantially as described.

6. In combination, the hopper, a receptacle H, means for moving it laterally to and from position under the hopper while maintaining its vertical position, and a bearing O against which the upper part of the receptacle seats itself when moved aside, an opening in the floor above the bearing O, a cover for said opening and means for opening and closing the lower end of the receptacle, substantially as described.

7. In combination, the hopper, a lid therefor, a shaft with detachable connections to said lid, a receptacle in a lower plane than the hopper, the said shaft being arranged to allow or cause cutting off communication between the hopper and the receptacle and to leave the receptacle out of use when the said connections are detached, substantially as described.

8. In combination in a closet, a receptacle movable to and from position under the same, means for operating the receptacle and a sealing-bearing upon which the receptacle contacts for sealing the same when moved aside, substantially as described.

9. In combination, a hopper, a movable receptacle in a lower plane in respect thereto to receive the contents thereof, a bearing for sealing said receptacle at its upper end when moved and means for opening and closing the lower end of said receptacle substantially as described.

10. In combination, the hopper having a cover, a receptacle in a lower plane in respect to said hopper, sealing means for the upper end of the receptacle, operating connections from the cover to effect the sealing of the receptacle when the hopper is not in use said

operating connections comprising a rotary vertically-arranged shaft K extending from the cover, substantially as described.

11. In combination, the hopper, a receptacle  
5 in a lower plane in respect thereto, a vertical shaft capable of rotary motion, a cover, a pawl, and pin connection between the cover and shaft, the said shaft being arranged to effect or cut off communication between the  
10 hopper and receptacle, substantially as described.

12. In combination, the hopper, a receptacle

in a lower plane in respect thereto, a vertical rotary shaft, and a cover connected to the shaft, said shaft being arranged to effect or  
15 cut off communication between the hopper and receptacle, substantially as described.

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

ARTHUR PILLSBURY DODGE.

Witnesses:

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