

(No Model.)

P. G. EMERY.
CLOSET.

No. 542,633.

Patented July 16, 1895.

Fig. 1.

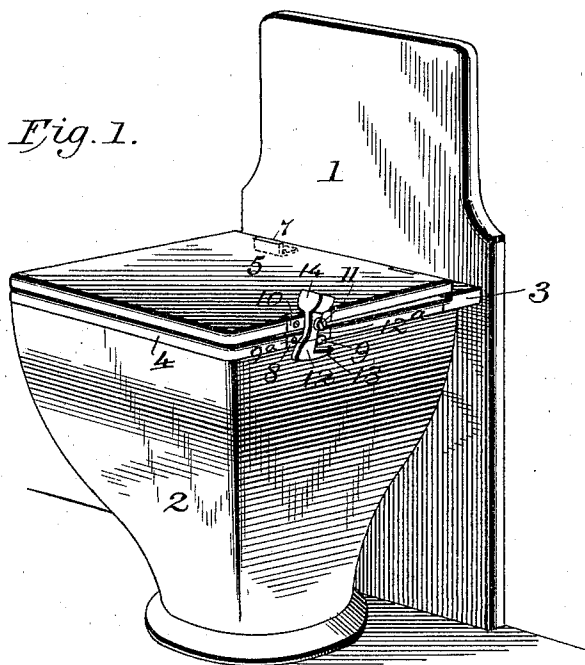


Fig. 2.

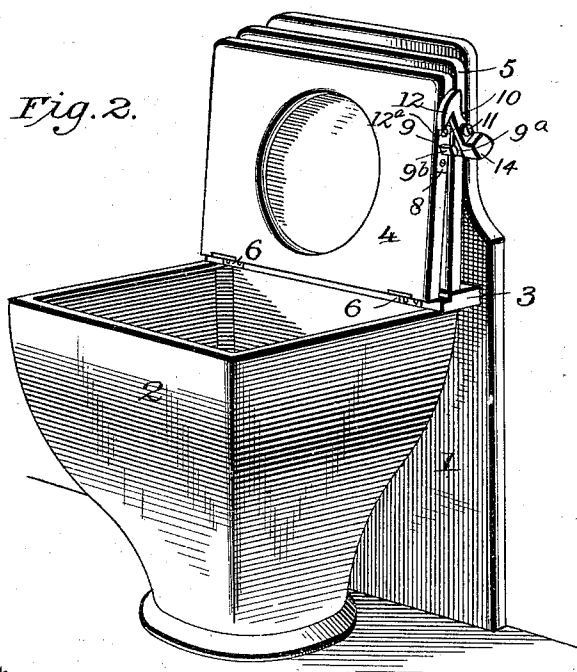
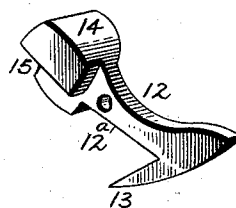


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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CLOSET.

SPECIFICATION forming part of Letters Patent No. 542,633, dated July 16, 1895.

Application filed February 21, 1895. Serial No. 539,238. (No model.)

To all whom it may concern:

Be it known that I, PLATO G. EMERY, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful
5 Improvements in Closets, of which the following is a full, clear, and exact description.

This invention is intended more particularly for use in railroad-cars and upon steamships or steamboats, but is applicable to more
10 general uses, and may be employed with dry closets or those flushed by water. Its object is the automatic lifting of the seat by the raising of the lid, whereby the bowl or hopper may be used as a urinal or slop-receptacle
15 without the liability of soiling the seat, and, further, to allow the seat to be left free to be lowered or closed independently of the lid, the latter remaining lifted.

In the accompanying drawings, Figure 1 is a perspective view of a closet embodying my invention, the seat and lid being down. Fig. 2 is a similar view, the seat and lid being raised to allow the bowl or hopper to be conveniently and neatly used as a urinal or slop-receptacle. Fig. 3 is an enlarged view in perspective of a detail of the invention.

Similar figures of reference indicate similar parts in the respective views.

1 represents the woodwork or casing forming part of the closet fixtures.

2 is the bowl or hopper, preferably of porcelain. To a ledge or projection 3, forming a part of the casing, is hinged the seat 4, while also hinged thereto is the lid 5. One leaf of the hinge 6 of the seat is screwed to the outer face of the ledge 3, its other being let in flush with the back edge of the seat, the arrangement being such that when the seat is lowered it rests in the plane of the ledge 3, as seen
40 in Fig. 1. One leaf of the hinge 7 of the lid 5 is let in and secured flush with the top of the ledge 3, while its other leaf is let in and fastened flush with the back edge of the lid, the pivotal or hinging points of the lid being
45 in the rear of and slightly above those of the seat, as shown. The lid and seat are each so hinged that when raised either shall stand slightly inclined to the rear or out of the perpendicular, the lid being by preference arranged to rest against and be stopped by a
50 part of the casing or other fixture, and the

seat to rest against and be stopped by the outer or under side of the lid, and both by their slightly-backward inclination to maintain positions secure against pulling forward. 55

At one side or edge of the seat 4 is let in or inserted and properly secured by screws or otherwise a plate 8, having a projecting pin 9, while at the corresponding side or edge of the lid is similarly secured a plate 10, to the
60 center of which is pivoted, upon a pin or projection 11, a gravity-latch 12. The latch 12 is provided at its lower or outer end with an elongated toe 13 and at its other end with a weight 14. The weight is furnished with a
65 shoulder 15, which rests above the top edge of the plate 10.

When the seat and lid are down, which is their normal position, the gravity-latch 12 stands as seen in Fig. 1—that is to say, with
70 its straight inner portion 12^a resting against the rounded surface 9^a of the projecting pin 9, its toe 13 below and out of contact with said pin, and the shoulder 15 above the plate 10.

When it is desired to use the bowl or hopper 2 as a urinal, the operator takes hold of the front edge of the lid 5 and slightly lifts it, which causes the straight inner portion 12^a of the latch to slide upon the front rounded surface of the projecting pin 9 and the inner
80 end of the toe 13 to engage the lowermost edge of said pin, when, the lifting of the lid being continued, the seat will be also lifted, the toe engaging during the lifting different surfaces of said pin until both the seat and lid reach
85 the respective positions shown in Fig. 2, at which time the operative surfaces of the toe will have been brought against the surface 9^b of the pin 9 practically parallel thereto, enabling the toe to slip from contact with the
90 pin by the action of the weight 14, the movement of the gravity-latch being checked by the contact of its shoulder 15 with the top edge of the plate 10. The seat having been thus automatically disengaged from the lid, the
95 seat may be lowered to place, leaving the lid raised. Should the seat and lid both be down, and the former is to be employed for its sole and proper use, the operator may readily detach the latch from the pin 9 and
100 raise the lid, leaving the seat down for use.

Having described my invention, I claim—

1. In a closet of the character described, a hinged seat and a hinged lid combined with a counter-weighted gravity latch suitably limited in its swinging movement, and a pin, 5 said latch and pin automatically connecting the seat and lid when both are down and adapting them to be raised together and automatically detached when raised, substantially as set forth.
- 10 2. In a closet of the character described, a hinged seat and a hinged lid combined with a pin projecting from a side of the seat, and a counter-weighted gravity latch pivoted to a corresponding side of the lid and suitably 15 limited in its swinging movement, said pin and latch automatically connecting the seat and lid when both are down and adapting them to be raised together and automatically detached when raised, substantially as set 20 forth.
3. In a closet of the character described, the combination of a seat hinged to a fixture of the casing, a hinged lid, a pin projecting from a side of the seat, and a counter-weighted gravity latch suitably limited in its move- 25 ment and pivoted to a corresponding side of the lid and having an elongated toe, the construction of the operative surfaces of the pin and toe being as described, whereby the seat and lid having been raised together upon the 30 engagement of the pin and toe, the latter shall be allowed to slip from the pin by the action of the counter-weighted gravity latch, substantially as set forth.
4. In a closet of the character described, the 35 combination of a bowl, a hinged seat, a hinged lid, a pin projecting from a side of the seat, and a counter-weighted gravity latch having a shoulder for limiting its swinging movement and an elongated toe for automatic engage- 40 ment with and detachment from said pin, substantially as set forth.
- In testimony whereof I hereto set my hand and seal.
- PLATO G. EMERY. [L. S.]
- Witnesses:
W. P. BRAINARD,
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