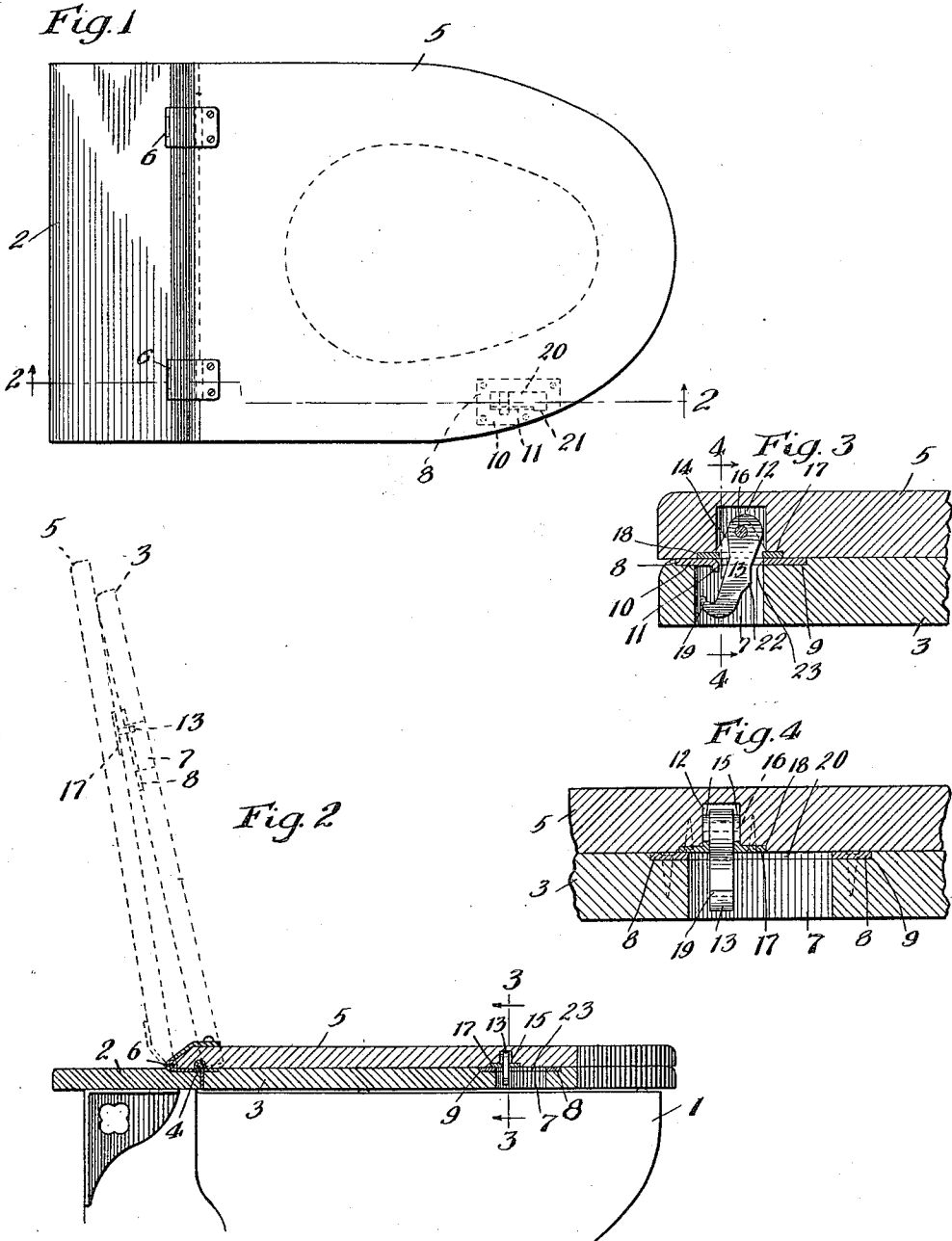


P. G. EMERY.
 CLOSET.
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Witnesses:

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UNITED STATES PATENT OFFICE.

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CLOSET.

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To all whom it may concern:

Be it known that I, PLATO G. EMERY, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Closets, of which the following is a specification.

My invention relates to improvements in closets, and more particularly to means for causing the raising of the seat with the lid.

The object of my invention is to provide a closet suitable for use in railway cars, steam boats and other places where it is desirable that the seat be caused to rise with the lid and then be capable of being independently lowered. Closets of the kind or construction to which my invention relates have ordinarily had the lid member provided with a latch which is moved by gravity or a spring into position to engage a catch plate on the seat member, and thus cause the seat member to be lifted with the lid; but frequently in practical operation, such devices get out of order, sometimes from corrosion, breakage or other causes.

The object of my invention is to provide an improved construction of closet and means for raising the seat with the lid, which will be simple in construction and positive in action. To practically accomplish this object or result, I provide the latch member with a cam or projection, which on the descent of the lid by engagement with a wall of the catch plate on the seat serves to positively move the latch into position for proper engagement with the catch.

My invention also consists in the novel construction of parts and devices and novel combinations of parts and devices herein shown and described and more particularly specified in the claims.

In the accompanying drawing forming a part of this specification, Figure 1 is a plan view of a closet embodying my invention. Fig. 2 is a vertical section on line 2-2 of Fig. 1, also showing in dotted lines, the lid and seat in raised position. Fig. 3 is a detail cross section on line 3-3 of Fig. 2 and Fig. 4 is a detail section on line 4-4 of Fig. 3.

In the drawing, 1 represents a closet bowl, 2 the stationary member or casing to which the seat 3 is connected by a hinge 4 and to which the lid 5 is connected by a hinge 6, the axis of the latter hinge being somewhat to

the rear of that of the seat hinge, preferably about as indicated in the drawing.

The seat 3 is provided with a recess 7 to receive the free end of the latch, and with a catch plate 8 fitted in a recess 9 and having a portion 10 provided with a lip or hook member 11 which overhangs the latch recess 7 in the seat in position to be engaged by the latch. The lid 5 is also provided with a latch recess or cavity 12 to receive the latch 13 and the latch bracket 14 to the lugs 15 of which the latch 13 is pivotally connected by a pin 16. The base 17 of the latch bracket 14 is secured in a recess 18 in the lid 5, so that the lower face of the latch bracket will be flush with the lower face of the lid. The upper face of the catch plate 8 is also flush with the upper face of the

The pivoted latch 13 is furnished with a hook member 19 adapted to engage the overhanging portion of the catch plate 8.

The catch plate 8 is furnished with a slot or elongated opening 20 to receive the pivotal latch 13, and this slot is furnished at its outer end with an enlargement 21 to permit the latch 13 to slip readily out of the slot 20 when the seat and lid are both raised into the position beyond the vertical as indicated by the dotted lines in Fig. 2; in which position the distance between the axis of the hinges of the seat and lid respectively cause the latch 13 to slide longitudinally in the slot 20 so that its hook 11 registers with the enlargement 21 in the slot of the catch plate.

To cause the hook member 19 of the latch 13 to be positively moved into position beneath the catch plate when the lid is lowered into horizontal position against the seat, I provide the pivoted latch 13 with a cam or projection 22 on the face thereof opposite its hook 11, which by engagement with the edge 23 of the catch plate, causes the latch 13 to be positively swung toward the lip 11 of the catch plate.

The member 13 may, if desired, be made to assume a position which would bring the hooked end 19 beneath the lip 11 of the catch member by mounting it eccentrically to cause it to assume such a position by gravity. This, however, is not necessary if the projection 22 be properly constructed. Whether or not the latch be mounted to bring the hook 19 beneath the lip 20 by gravity the projection 22 should be provided to positively insure proper operation. If

the parts stick, this projection will cause the end of the hook 19 to be swung over into position. Gravity alone is not dependable because of the possible sticking of the parts.

5 In operation, when the seat is raised, the latch 13 by engagement with the catch 11, causes the seat to be always raised with the lid. By reason of the fact that the lid is divergently hinged from the seat, as the
10 seat and lid are raised to a position somewhat past the vertical, the latch slides longitudinally in the slot of the catch plate, thus bringing its hook member opposite the enlargement 21 of the slot 20 in the catch
15 plate, so that the latch may readily disengage from the catch, and the seat may then be lowered independently of the lid. When the lid is again lowered, the projection 22 on the latch causes the latch to positively
20 swing into proper position for engagement with the catch.

I claim:—

1. In a closet, in combination: a seat and a lid hinged on parallel axes; and interengaging latch and catch members on the seat
25 and lid, the latch having a hook portion and an integral projection, and the catch member having a slot provided with an enlargement adapted to permit the removal of the
30 latch member from the catch member when the seat and lid are both raised beyond the vertical position, said projection being positively operated to cause the hook portion to be moved into operative position relatively
35 to the catch, substantially as specified.

2. In a closet, in combination: a seat and a lid hinged on parallel axes; and interengaging latch and catch members on the seat
40 and lid, the latch being provided with a projection for causing it to be positively moved into operative position relatively to the latch, said catch member having a hook por-

tion adapted to engage and cooperate with the latch and another portion opposite the hook portion for engaging the projection 45 on the latch to positively operate the latter, substantially as specified.

3. In a closet, in combination: a seat 3 and a lid 5 hinged on parallel axes; a latch plate 10 on the seat 3 having an edge 11; 50 and a latch 13 pivoted to the lid 5 by pin 16 and provided with a hook 19 adapted to engage said edge 11 on the latch plate 10 and to be released therefrom by the sliding
55 movement of the latch in respect to the catch plate by reason of the divergent hinging of the lid and seat, said latch 13 being provided also with a cam 22 adapted to engage an edge of the plate 10 to positively
60 throw the hook 19 to an operative position relatively to the edge 11, substantially as specified.

4. In a closet in combination: a seat and lid hinged on parallel axes and means connecting said seat and lid, said means com- 65 prising a latch adapted to engage said seat, and means carried by the latch to positively operate the latch and bring it into position to engage said seat when the lid is raised.

5. In a closet in combination: a seat and 70 lid hinged on parallel axes and means connecting said lid and seat, said means comprising a latch and catch member, said latch having a hook portion and shaped above
75 said hook portion for engagement with the catch member to swing the hook oppositely into position to engage said catch member.

Subscribed to in the presence of two subscribing witnesses this 8th day of February, 1911.

PLATO G. EMERY.

Witnesses:

PEARL ABRAMS,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."