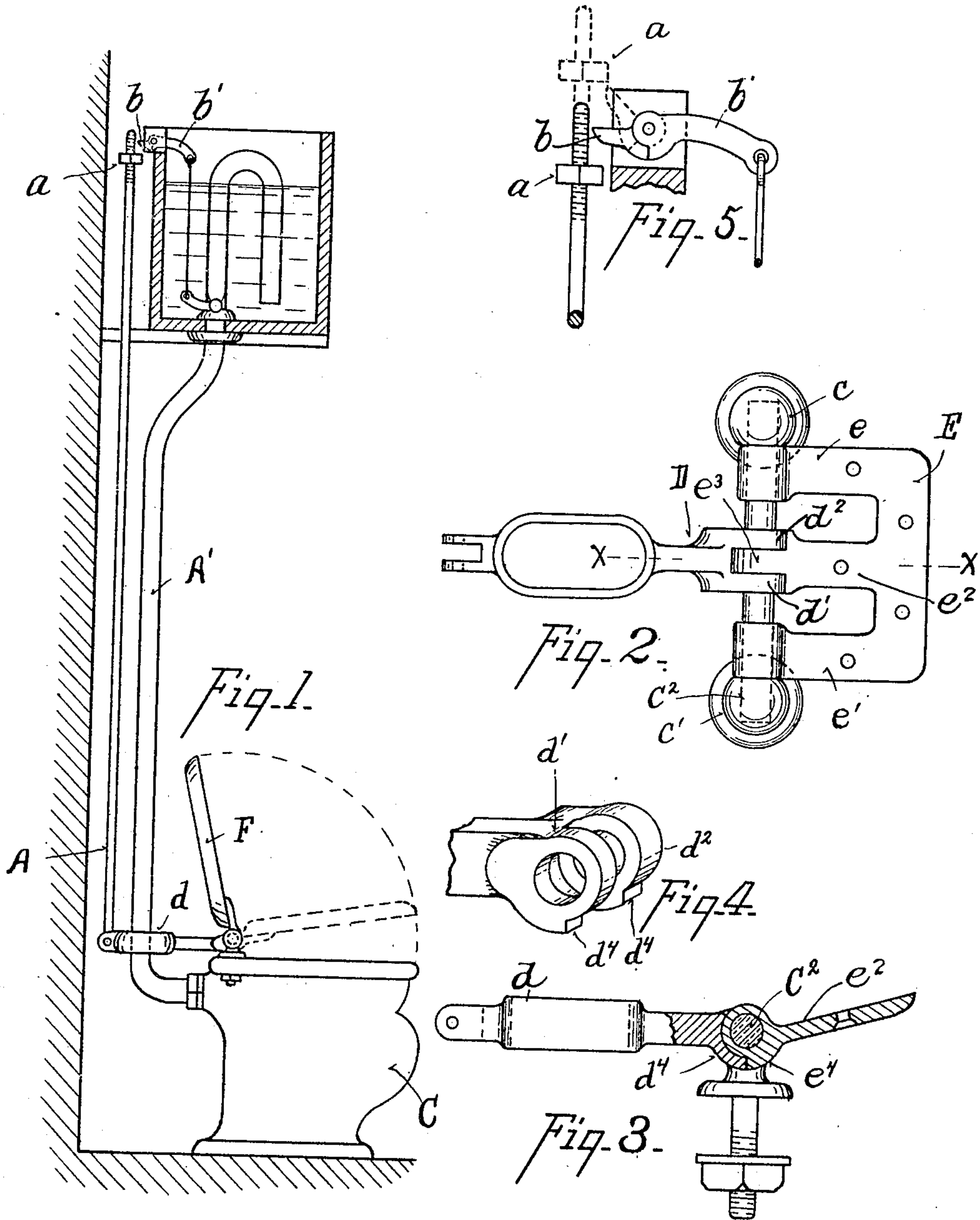


D. W. McNEIL.
WATER CLOSET SEAT.
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906,734.

Patented Dec. 15, 1908.



WITNESSES:
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UNITED STATES PATENT OFFICE.

DANIEL W. McNEIL, OF CINCINNATI, OHIO, ASSIGNOR TO THE JOHN DOUGLAS COMPANY,
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WATER-CLOSET SEAT.

No. 906,734.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DANIEL W. McNEIL, a citizen of the United States of America, and resident of Cincinnati, county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Water-Closet Seats, of which the following is a specification.

My invention relates to that kind of water closet seat which is provided with a lever-arm which is moved by the seat when the seat is depressed, so as to set the lever-arm in position to raise the valve of the tank when the pressure upon the seat is released.

The object of my invention is a seat of this character provided with an actuating arm, which has no part to project out beyond the underface of the seat, when the seat is thrown back.

Referring to the accompanying drawings, in which like parts are indicated by similar reference letters, Figure 1 is a side elevation of a bowl, a tank, the connecting pipes and a seat embodying my invention. Fig. 2 is a detail plan view of the journal bar for attachment to the bowl, the plate to be attached to the seat and the rearwardly projecting arm. Fig. 3 is a detail sectional view taken upon line $x-x$ of Fig. 2, the actuating arm being shown broken out and brought together to economize space. Fig. 4 is a perspective view of the journal ring for the inner end of the actuating arm. Fig. 5 is a detail elevation of the upper end of the vertical rod and the lever arm which is attached to the rubber ball-valve.

Referring to the parts: The vertical rod, A, bearing the nut, a , to pass the movable pawl, b , when the rod, A, is raised, and to engage the movable pawl, b , and actuate the lever, b' , to raise the valve in the tank from its seat when the rod, A, descends, are of ordinary construction and need not, therefore, be described more specifically. Secured upon the rear of the bowl, C, are rigid bolts c, c' , between which the journal shaft, c^2 , is mounted.

Actuating arm, D, is pivoted at its outer end to vertical rod, A, has an oblong ring, d , to pass around the water pipe, A', and has

at its inner end a grooved ring, d' , d^2 , which is journaled upon the shaft, c^2 . Upon the underside of the periphery of rings, d', d^2 , there are off-sets, d^4 . Plate, E, which is secured at the rear of the seat, F, has arms, e, e' , which are journaled upon the shaft, c^2 , and a central arm, e^2 , with a tongue, e^3 , which projects between the parts, d', d^2 of grooved ring and is journaled upon the shaft, c^2 . Tongue, e^3 , has off-sets, e^4 , upon its underside, which are adapted to contact the off-sets, d^4 , when the plate, E, stands at an angle to the arm, D, such as it is desired to have the seat, F, form with the upper edge of the bowl when in its normal position. In this normal position of the seat, F, the off-sets, e^4 , bearing against the off-sets, d^4 , when the seat is depressed, the outer end of the arm, D, is raised, thereby raising the vertical rod, A. The weight of the arm, D, is such that when there is no pressure upon the seat, F, the weight of the arm, D, will carry it back to its normal position and thereby lower the arm, A.

When the seat is thrown back, as illustrated in Fig. 1, it is seen that the inner end of the arm, D, does not project beyond the underface of the seat but that it stands back of the lower edge of the plate, E, which likewise has no part projecting in front of the bolts, c, c' .

What I claim is:

In a water closet seat the combination of a journal shaft, brackets for supporting the shaft upon the bowl, a rearwardly projecting arm with a ring journaled upon the shaft, a second arm secured to the seat and journaled upon the shaft adjacent to the ring, and contacting off-sets upon the ring and the second arm to limit the rotation of the arms relatively to each other, the ring off-set standing back of the underface of the second arm, and the underface of the second arm standing back of the front of the brackets, when the seat is raised.

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Witnesses:

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