

Oct. 24, 1950

E. H. KRAUS
ODORLESS TOILET BOWL

2,526,952

Filed April 17, 1945

2 Sheets-Sheet 1

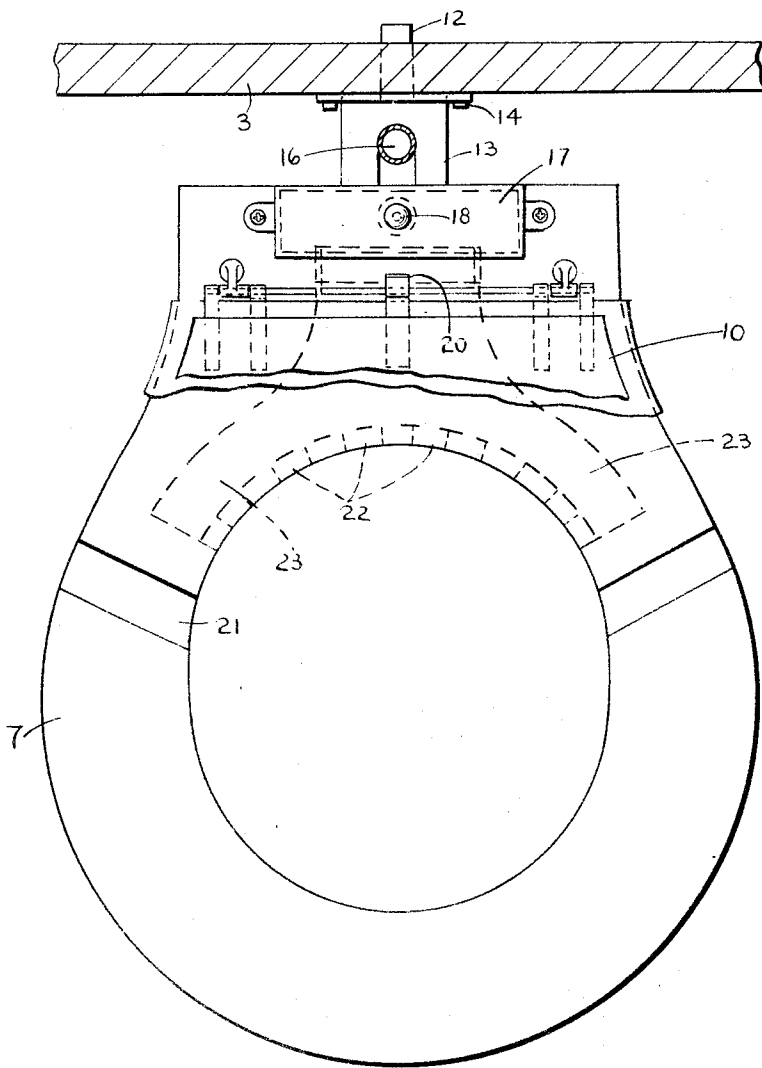


Fig. 1

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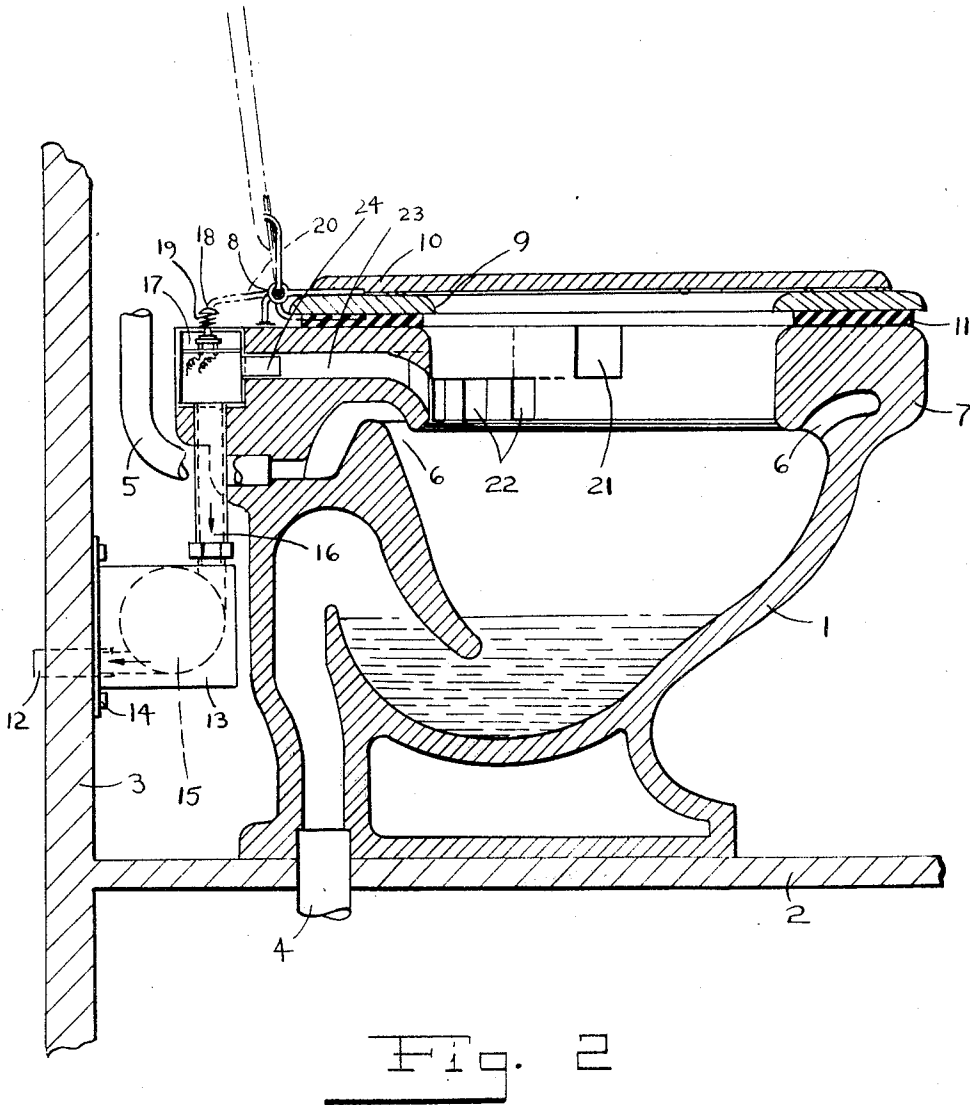
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UNITED STATES PATENT OFFICE

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ODORLESS TOILET BOWL

Edward H. Kraus, Elizabeth, N. J.

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1 Claim. (Cl. 4—213)

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My present invention, in its broad aspect, has reference to improvements in toilet seats and bowls and, particularly, means for removing foul air from toilet installations. More particularly, it is my purpose to provide inflow of air and exhaust of foul air from points at the rear of the bowl so that such flow of air is not felt by the person occupying the seat. Furthermore, in order to start the motor to cause circulation and withdrawal of foul air, it is necessary to first raise the cover for the seat, thereby scavenging the toilet installation of foul air before the seat is occupied. There are no valves, or intricate or fragile parts likely to get out of order or to become deranged or broken, and my device is sturdy, practical and efficient in operation.

Other and equally important objects and advantages of my invention will be apparent from the following description and drawings, and it is pointed out that changes in form, size, shape, materials, and arrangement and construction of parts are permissible and within the purview of my broad inventive concept, and the scope of the appended claim.

In the drawings, wherein I have illustrated a preferred form of my invention:

Figure 1 is a top plan view of a toilet seat equipped with my invention, and

Figure 2 is a vertical section.

In the drawings, wherein like characters of reference are used to designate like or similar parts:

The numeral 1 designates a toilet bowl attached to the base 2 near a wall 3, or the like, and which has a drain 4 and a water inlet 5 for flushing purposes through passages 6 in the relatively thick rim 7 of the bowl. Hinged to the bowl 1 as at 8 is a toilet seat 9 and a cover 10, and my toilet seat is provided with a relatively thick rubber gasket 11 to maintain a substantially air-tight contact between the seat and the rim of the bowl. At the back of the bowl and extending through the wall, or the like, is a foul air outlet pipe 12 having communication with an air exhaust and fan and motor casing 13 attached to the wall as at 14. The motor and fan assembly—shown in dotted lines at 15 creates suction in the pipe 16 leading to a compartment 17 at the back of the bowl. The operating switch 18 of the motor is located in the compartment 17 and has a spring 19 to normally hold the switch open. The cover has a detent 20 which engages the switch to close the same and start the motor when the seat is raised.

Extending through the rim 7 at the sides and toward the back of the bowl, and above the water passages 6 are a pair of fresh air inlet passages or ports 21. The rim at the back is provided with

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a plurality of spaced foul air outlet ports 22 above the water passages 6 and which lead to a conduit 23 communicating with the compartment 17 through the foul air inlet pipe 24 whereby fresh air is drawn into the bowl, and foul air exhausted from the bowl as soon as the cover of the seat is raised and circulation of air is at the back of the bowl out of the way of the person occupying the seat.

From the foregoing, it is believed that the operation and advantages of my invention will be apparent, but it is again emphasized that interpretation of the scope of my invention should only be conclusive when made in the light of the subjoined claim.

I claim:

The combination with a toilet bowl and a pivoted seat and seat cover, the bowl having a rim and a rubber gasket between the seat and the rim to provide a substantial air tight contact between the seat and the rim, and the rim being provided with flush water inlet conduits and provided with a pair of diametrically opposed fresh air inlet ports on the rim above the flush water conduits and at the sides and toward the back of the bowl, and a plurality of foul air outlet ports in the rim between the inlet ports and at the back of the bowl, of a foul air outlet conduit communicating with the foul air outlet ports, an air suction compartment in said foul air outlet conduit, a motor suction fan interpolated in the conduit within said air suction compartment, a second compartment in the foul air outlet conduit above said air suction compartment, a detent fixed to the rear of the seat cover, a switch for the motor suction fan in said second compartment which is disposed to be contacted by the detent on the seat cover to create circulation of air in the bowl when the cover is raised and a spring in the switch to normally hold the switch open.

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