Sept. 6, 1960 L. E. WINN 2,951,250

VENTILATOR SWITCH

Filed Oct. 7, 1958

Fig. 1

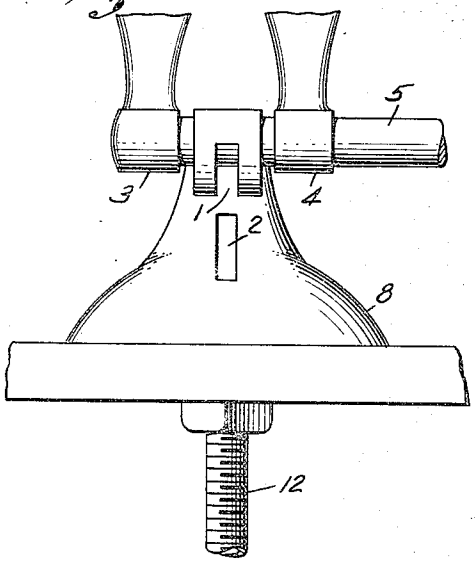
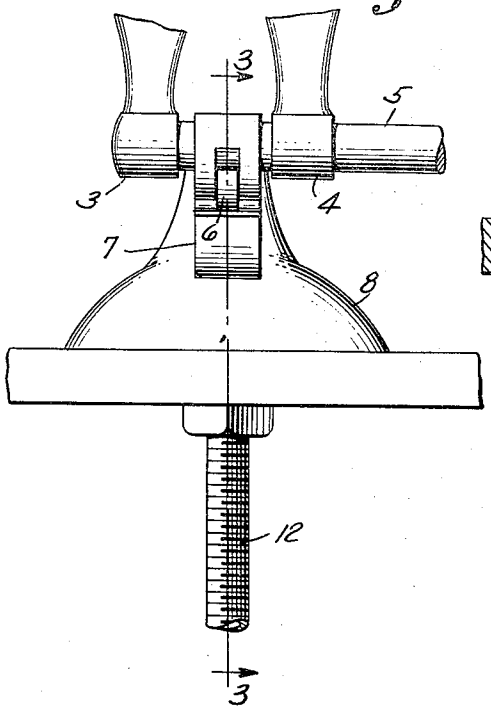



Fig. 2



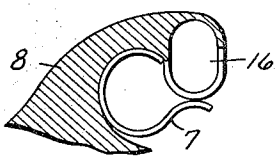




Fig. 5

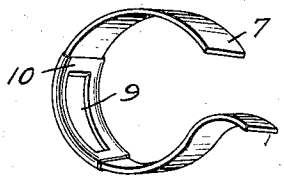



Fig. 4

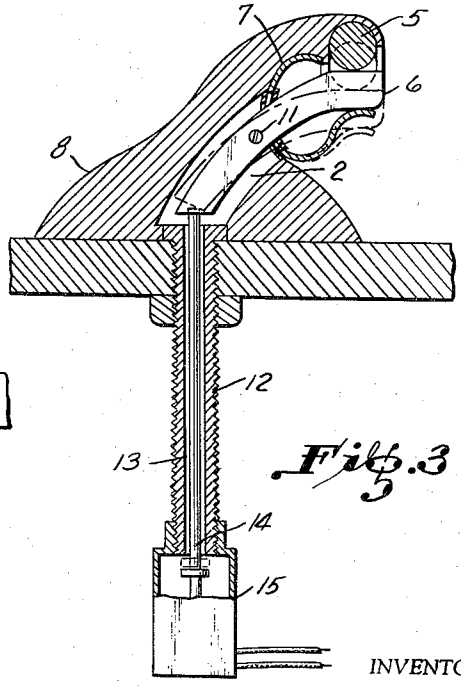



Fig. 3

INVENTOR

Lewis E. Winn

United States Patent Office

2,951,250

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2,951,250

# VENTILATOR SWITCH

Lewis E. Winn, 513 Cedar St., Leaksville, N.C.

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1 Claim. (Cl. 4—213)

My invention relates to certain improvements in toilet ventilating and deoderizing equipment providing a switch operating mechanism built into the toilet seat hinge and mounting assembly. Preceeding designs have, due to the present art in manufacturing toilet equipment, been rendered for the most part, obsolete. This invention is based on the theory that ventilating and deorderizing equipment should be located elsewhere within the toilet inclosure and only the control mechanism located on the toilet bowl. This invention can be adapted to any standard type toilet bowl by removing the seat and cover assembly and replacing it with a similar seat and cover fitted with the components described in this invention. Another feature of this invention is the lack of bulky and unsightly equipment installed on the toilet bowl.

Fig. 1 shows a front elevational view of a typical seat and cover mounting arrangement. The mount is shown without the actuating parts to give view to the channels provided to receive parts relating to this invention. Fig. 2 is a similar view of the seat mount showing switch actuating parts in position. Fig. 3 is a side view of the mounting taken on line 3—3 of Fig. 2. As will be explained later, only one of the two mounts used will be fitted with the complete mechanism relating to this invention. Fig. 4 is a view of a spring component. Fig. 5 is a view of a portion of the mounting member.

Using like figures to describe like components, my invention is constructed and is operated as follows: The mount 8 is provided with channel spaces 1 and 2 into which lever 6 is positioned extending through aperture 9 of spring 7. A soft rubber sheath 10 is secured to spring 7 surrounding aperture 9 to prevent water from entering and ultimately damaging and causing malfunctioning of parts interior. Lever 6 is secured to the mounting member 8 by screw 11. The mounting stud 12 is provided with an axial bore 13 to receive pin 14. At the end of stud 12 is secured a momentary normally on type switch 15. The mounting member 8 is provided with an elliptical hole 16 through which hinge pin 5 is extended and retained to the upper limit of the hole 16 by lever 6 under pressure of spring 7. With lever 6 and pin 5 in



position as shown in Fig. 3 the switch is adjusted by screwing the threaded boss onto the stud 12 until the pin 14, held firmly between the switch mechanism and lever 6, forces the switch into the off position.

In operation and with the seat not in use, the hinge pin 5 together with the seat hinge 3 and cover hinge 4 and associated seat and cover will be held to the upper limit of the elliptical hole 16 in the mounting member 8 by lever 6 under pressure of spring 7. Both seat mounting members used to mount the toilet seat to the bowl are identical in action to this point. Succeeding action concerning pin 14 and switch 15 pertain to either mount but not both. Lever 6 in this position, has forced pin 14 downward through axial bore 13 in stud 12 overpowering the force of the momentary normally on type switch 15 holding the switch in the off position. When sufficient weight is applied to the toilet seat, the hinge members 3 and 4 and pin 5 are forced down to the lower limit of hole 16. The external end of lever 6 is forced down an equivalent distance. The internal end of lever 6 is raised relieving pressure on pin 14 thus relieving pressure on the switch mechanism, allowing it to return to its normal on position applying energy to the desired electrically operated ventilating and deodorizing equipment. In connection with this invention, it is intended that the wires from the switch will be in water resistant cable form and installed with proper electrical fittings in a standard outlet box in the wall adjacent to the toilet bowl, wherein the power and ventilating equipment wiring is terminated.

It is understood that various changes may be made in the structural details without departing from the spirit of the invention.

What is claimed is:

In combination with a toilet bowl having a seat and cover hingedly attached thereto, a vertically disposed elliptical hole in the mounting member of the seat and cover hinge assembly, means, including a lever and a spring for yieldably maintaining at the upper limit of said hole the hinge pin, seat and cover hinge members and associated seat and cover when no external force is applied to the seat and means including said lever communicating with said hinge pin and with a pin axially disposed and extending through the stud of said mounting member, communicating with a momentary normally on type switch for yieldably maintaining the switch in the off position when no external force is applied to the seat and releasing the switch to its normal on position when the seat is depressed.

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