Feb. 14, 1939. L. H. PERREAULT 2,146,982

VENTILATOR FOR TOILET BOWLS

Filed March 23, 1938

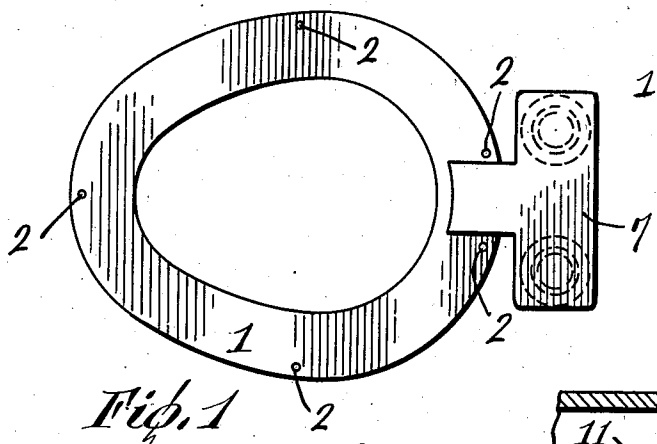


Fig. 1

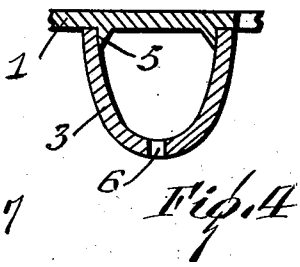


Fig. 4

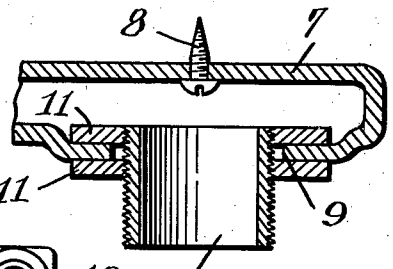


Fig. 5

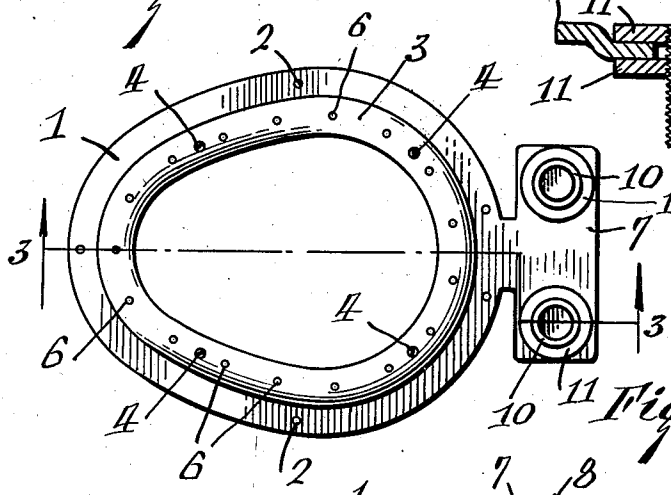


Fig. 2

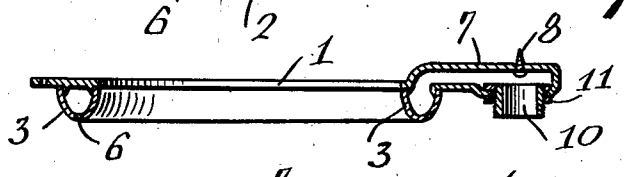


Fig. 3

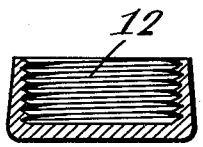


Fig. 7

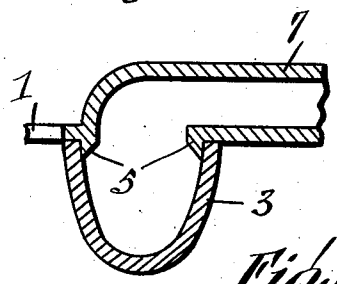


Fig. 6

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VENTILATOR FOR TOILET BOWLS

Louis Honoré Perreault, Levis, Quebec, Canada

Application March 23, 1938, Serial No. 197,567

1 Claim. (Cl. 4—217)

The present invention pertains to a novel ventilator designed particularly for toilet bowls and adapted to be readily mounted thereon.

The principal object of the invention is to provide a device of this character that will carry the odorous gases to a suitable ventilator pipe such as the usual pipe terminating at the roof of the building. In the accomplishment of this object, the device includes an annular plate adapted to rest upon the upper edge of the bowl and carrying a correspondingly shaped channel extending into the bowl around the edge thereof. The channel member is formed with a series of apertures to receive the gases from the bowl. The channel is connected to the aforementioned ventilator pipe, preferably through a double walled member at the rear end of the plate. This member is adapted for attachment to a fixed part of the seat or bowl assembly and is in fluid communication with the channel.

The double walled member, in turn, has its bottom wall formed with a pair of openings both receiving coupling members or nipples. One or both of these may be connected to the ventilator pipe leading to the roof. If only one of the couplings is so used, the other is closed at its lower end by means of a cap forming a receptacle adapted to contain a volatile disinfectant that vaporizes through the double walled member and the channel into the bowl.

The invention is fully disclosed by way of example in the following description and the accompanying drawing, in which

Figure 1 is a plan view of the device;

Figure 2 is a bottom plan view;

Figure 3 is a section on the line 3—3 of Figure 2;

Figure 4 is a vertical section at right angles to Figure 3;

Figures 5 and 6 are enlarged details of Figure 3, and

Figure 7 is a detail section of the closure cap.

Reference to these views will now be made by use of like characters that are employed to designate corresponding parts throughout.

The ventilator constructed according to the invention is designed for connection to the usual ventilating pipe at the roof of the building. Inasmuch as the latter device is well known in the art, it is not illustrated here, but the manner of connection hereto is described below. A flat plate 1 of proper shape is mounted on the upper edge of the toilet bowl and is adapted to be engaged by the hinged seat although not moving with the seat. The plate 1 is also attached directly to the bowl by screws passed through the holes 2.

A channel 3 having the same contour as the plate 1 is secured to the lower side of the latter by an appropriate number of screws 4. The open top of the channel is covered by the plate 1, as illustrated more clearly in Figure 4, the plate having ribs 5 engaging the upper edges of the channel member. The channel is of such size as to fit within the bowl and is formed with a series of apertures 6 through its bottom for communication with the bowl.

The rear end of the plate 1 is continued in the form of a double walled T-shaped member 7 adapted to fit beneath a similarly shaped fixed part of the seat structure, particularly the member to which the seat itself is hinged. The member 7 is held to said part by a pair of screws 8, as shown in Figure 5.

As shown in Figure 3, the interior of the member 7 is in communication with the channel 3 at the rear portion of the latter. In the lower surface of the member 7 are formed two similar holes 9 near the ends of the T-head. In each of these openings is mounted a short coupling tube 10 held by a pair of collars 11 respectively above and below the bottom wall of the member 7.

One or both of the couplings 10 may be connected to the usual ventilator pipe leading to the roof of the building, but it is sufficient to so connect only one of the couplings. In such case, the remaining coupling may be closed by a cap 12 as shown in Figure 7 or may be adapted to contain a disinfectant that will find its way into the bowl through the channel 3 and apertures 6.

It will now be evident that the device is comparatively inexpensive and simple in construction and is easily installed in view of the fact that the channel 3 is supported by the plate 1 which in turn rests upon the edge of the bowl. It is also within the scope of the invention to form the parts 1 and 3 integral with each other and with the member 7, although the construction and assembly herein described is more practical from the standpoint of manufacture.

Although a specific embodiment of the invention has been illustrated and described, it will be understood that various alterations in the details of construction may be made without departing from the scope of the invention, as indicated by the appended claim.

What I claim is:

A ventilator of the character described comprising a substantially annular plate adapted to

rest upon a toilet bowl, a continuous channel depending from said plate and cooperating therewith to form a conduit, said channel being apertured to communicate with said bowl, a double walled member at the rear end of said plate and communicating with said channel, said member having an opening in its bottom wall, a coupling in said wall and adapted for connection to a ventilator pipe, said member having a pair of couplings mounted in its bottom wall and communicating with the channel through said member, one of said couplings being adapted for connection to a ventilator pipe, and a cap adapted for attachment to the lower end of the other coupling to convert it into a receptacle.

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