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J. MOORE

TOILET FLUSHING MEANS

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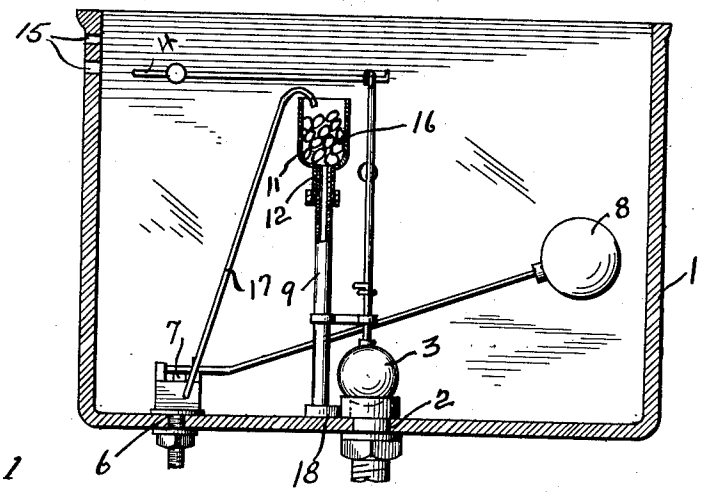
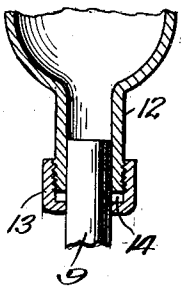


FIG. 1

FIG. 2.



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TOILET FLUSHING MEANS.

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The present invention relates to improvements in deodorizing means for lavatories and the like, and its particular object is to arrange a deodorizing agent in such a manner that the same is periodically moistened for releasing its odor. It is particularly proposed to utilize for this purpose the flushing device associated with a toilet, which generally includes auxiliary means for refilling the bowl after each flushing.

The water used for refilling the bowl is caused to pass the deodorant to moisten the same for releasing its odor and to also carry along certain cleaning agents usually contained in deodorants for maintaining the bowl in a clean condition.

Further objects and advantages of my invention will appear as the specification proceeds.

The preferred form of my invention is illustrated in the accompanying drawing, in which:

Figure 1 shows a vertical section through a tank having my improvement incorporated therein,

Figure 2 a sectional detail view of a connection between a cup and an overflow pipe.

While I have shown only the preferred form of the invention, I wish to have it understood that various changes or modifications may be made within the scope of the claims hereto attached without departing from the spirit of the invention.

The tank 1 is provided with a port 2 discharging into a bowl of conventional construction (not shown in the drawing) and normally closed by the ball 3 adapted to be operated, through a chain of links well known in the art and therefore not particularly described, by means of the handle 4. A water intake port 6 is controlled by the valve 7 operated by a float 8 in a well known manner. An overflow pipe 9 extends into the tank from the bottom so as to project above the normal level of the liquid when the tank is filled. At the upper end of this overflow pipe I provide the cup 11, which may terminate, at the bottom, in a sleeve 12 adapted to be telescoped over the pipe 9 while a ring 13 may be threaded on the lower end of the sleeve for tightening a packing 14 upon the pipe 9 so as to effect a watertight seal. This cup is intended to receive a deodorant 16 and an auxiliary tube 17 leads from the port 6 to the cup to discharge water thereinto when the valve 7 is lifted. The bottom end of the overflow pipe 9 communicates with the discharge port 2 through the passage 18.

The device operates as follows: To flush the bowl, the ball 3 is lifted off its seat by manipulation of the handle 4. The water contained in the tank rushes through the exhaust port into the bowl, cleaning the latter of its contents and washing the same through a trap associated therewith (not shown). The impetus of the water is such that most of it passes the trap and the remaining quantity forms an imperfect seal only. The dropping of the water level in the tank causes the float 8 to open the intake valve and new water rushes into the tank for refilling the same. At the same time a small stream of water is diverted through the tube 17 to flow through the cup 16 and the overflow pipe 9 into the bowl to replenish the supply in the trap. This water, in passing through the cup 16, moistens the deodorizing agent and causes the same to give off odors which spread through the lavatory either through the open top of the tank or through perforations 15 formed in the walls or the top of the tank. The deodorant may also contain a cleaning agent which is carried along by the water passing through the overflow pipe into the bowl and aids in maintaining the latter clean.

I claim:

1. A device of the type described, comprising a tank, a discharge port carried by said tank, an overflow pipe communicating with said discharge port, a deodorant carrying cup fixed to the upper end of said overflow pipe so as to form a symmetrical enlargement thereof, a valve for admitting water into said tank, and an auxiliary tube communicating with said valve and terminating in said cup for conveying a portion of the water flowing thru said valve into said cup.

2. A device as defined in claim 1 in which the cup is formed with a depending flange adapted to telescope on the overflow pipe and in which a sleeve formed with an internal flange is slidable on the pipe and threaded on the cup flange for forcing a packing upon the pipe.

In testimony whereof I affix my signature.

JOHN MOORE.