

July 20, 1943.

C. P. BOMBARD

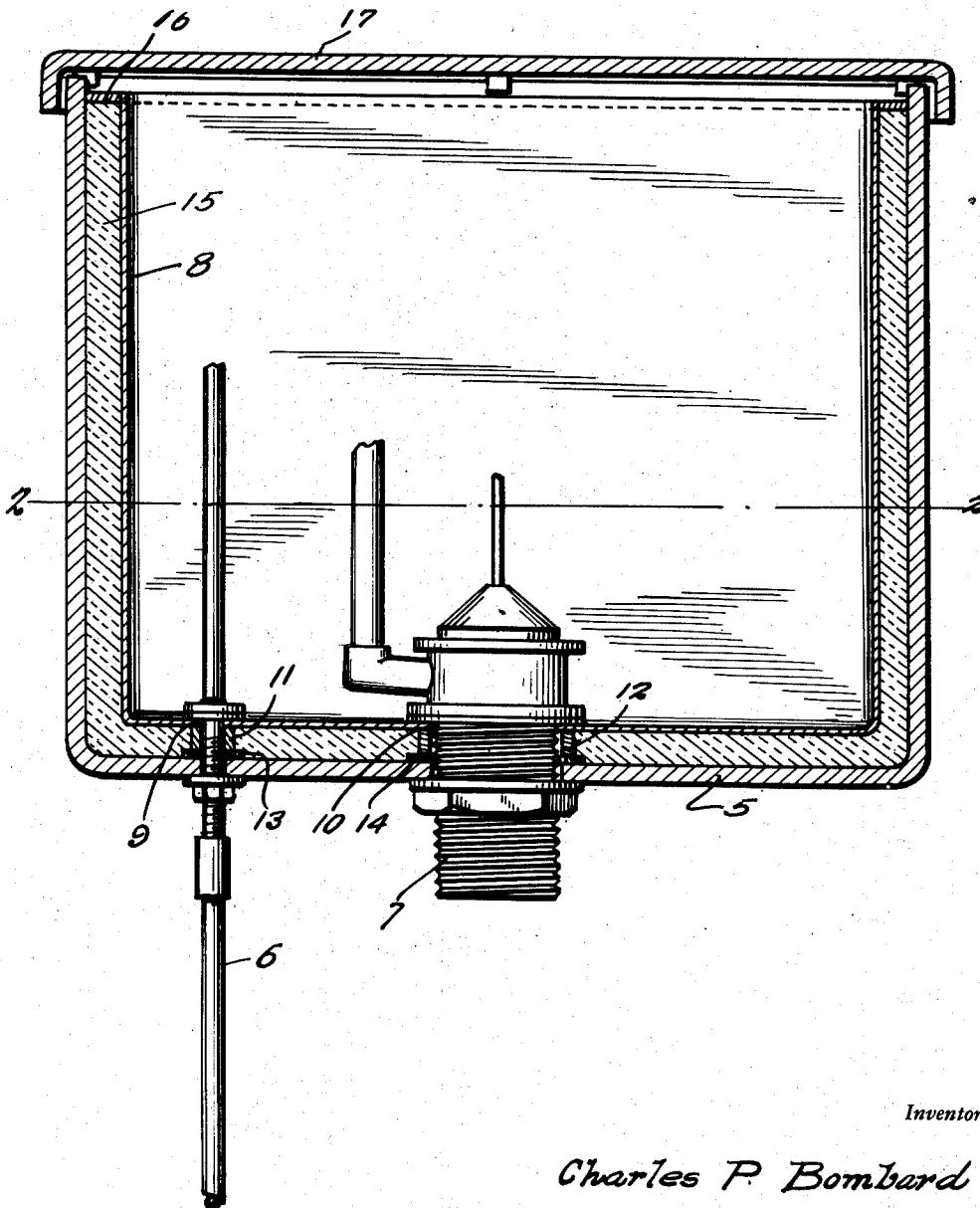
2,324,756

FLUSH TANK

Filed May 25, 1942

2 Sheets-Sheet 1

Fig. 1.



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2 Sheets-Sheet 2

Fig. 2.

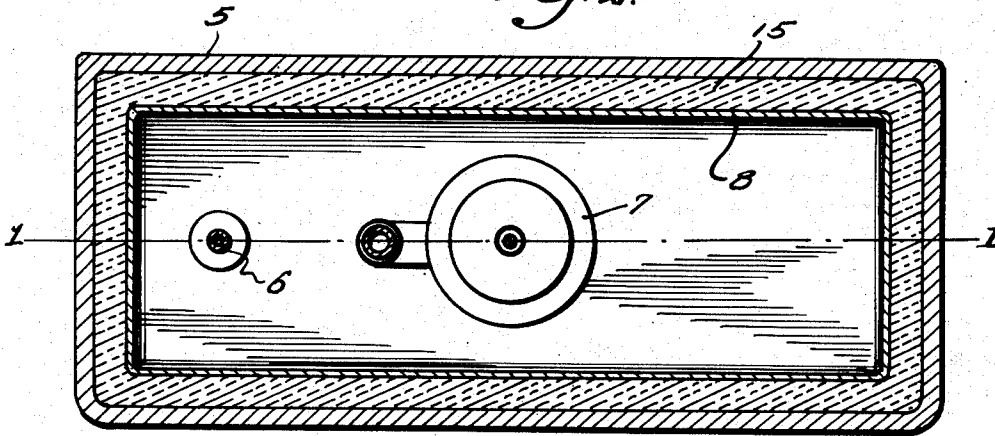


Fig. 3.

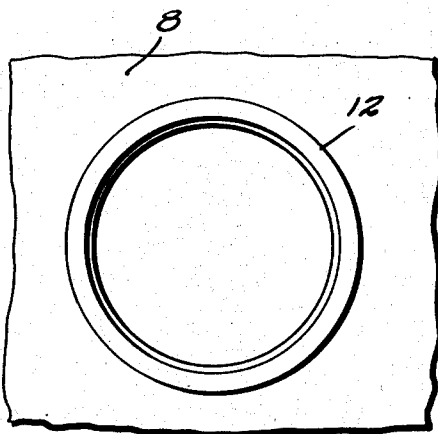
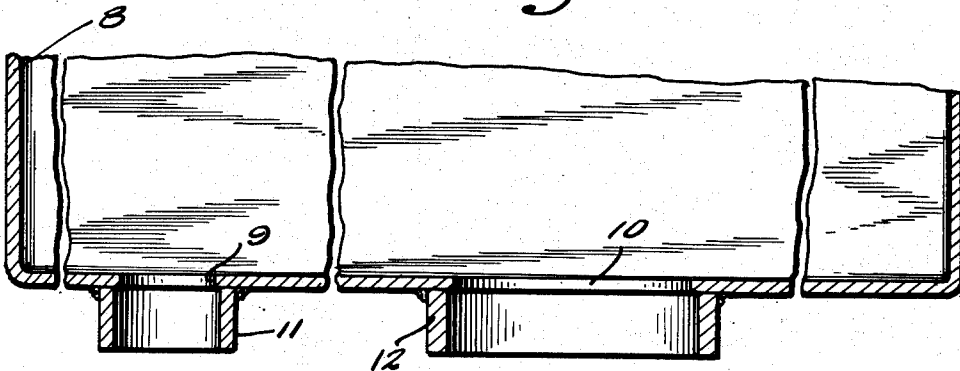


Fig. 4.

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UNITED STATES PATENT OFFICE

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FLUSH TANK

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Application May 25, 1942, Serial No. 444,457

2 Claims. (Cl. 4—68)

The present invention relates to new and useful improvements in flush tanks and has for its primary object to provide a device of this character embodying an insulated wall construction designed to reduce the tendency of the surface of the tank to sweat or cause condensation to adhere thereto and also to muffle and substantially silence the noise of the flushing action.

A further object is to provide an article of this character of simple and practical construction, which is neat and attractive in appearance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which—

Figure 1 is a vertical longitudinal sectional view.

Figure 2 is a horizontal sectional view taken substantially on a line 2—2 of Figure 1.

Figure 3 is a fragmentary longitudinal sectional view of the bottom of the tank lining showing the spacing collars for the water inlet and drain pipes, and

Figure 4 is a fragmentary bottom plan view of the lining showing one of the spacing collars.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates the outer shell of the tank which may be constructed of any suitable material, such as metal, china, or other plastic material, having the water inlet pipe 6 and drain pipe 7 extending upwardly through the bottom thereof.

Positioned in the tank is a metal liner 8 having its walls spaced from the walls of the tank and with the upper edge of the walls of the liner terminating slightly below the upper edge of the walls of the tank, as shown to advantage in Figure 1 of the drawings.

The bottom of the liner is also formed with an opening 9 through which the water supply pipe 6 extends and an opening 10 through which the drain pipe 7 extends. A collar 11 is welded or otherwise suitably secured to the bottom of the liner in the region of the opening 9 and through which the water supply pipe 6 extends, and a similar collar 12 is also welded or otherwise suitably secured to the bottom of the liner in the region of the opening 10 for receiving the drain

pipe 7, the collars 11 and 12 spacing the bottom of the liner above the bottom of the tank. Rubber gaskets 13 and 14 are positioned between the lower edges of the collars 11 and 12, respectively, and the bottom of the tank to provide a liquid-tight seal therefor.

Between the liner 8 and the outer shell 5 of the tank is placed a filler 15 of insulation material, the filler being packed between the bottom of the liner and the bottom of the shell of the tank, as well as between the walls of the liner and the walls of the tank, as shown to advantage in Figures 1 and 2 of the drawings.

The top of the filler is sealed by a waterproof plastic cement 16 which closes the space between the liner 8 and the shell 5 of the tank and is flush with the upper edge of the shell.

The usual cover 17 is placed on top of the tank.

The provision of the insulation filler 15 not only serves to reduce the formation of condensation on the exterior of the tank, but also serves to muffle the flow of the water during the flushing action.

It is believed the details of construction and manner of use of the device will be readily understood from the foregoing without further detailed explanation.

Having thus described the invention what I claim is:

1. A tank including a bottom, walls and an open top, said bottom having water inlet and drain pipes extending therethrough, a lining in the tank including a bottom and walls and also having openings in the bottom receiving said pipes, said walls of the lining being spaced from the walls of the tank, collars spacing the bottom of the lining from the bottom of the tank and surrounding the respective pipes, and an insulation filler between the lining and the tank.

2. A tank including a bottom, walls and an open top, said bottom having water inlet and drain pipes extending therethrough, a lining in the tank including a bottom and walls and also having openings in the bottom receiving said pipes, said walls of the lining being spaced from the walls of the tank, collars secured to the underside of the bottom of the lining and spacing the latter from the bottom of the tank, gaskets between the bottom of the tank and the lower edge of the collars, said collars surrounding the respective pipes, a filler of insulation material between the lining and the tank, and a sealing agent on top of the filler.

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