Aug. 22, 1950 J. L. POZUN 2,520,056

DISINFECTING AND DEODORIZING DEVICE FOR TOILETS

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Fig. 1.

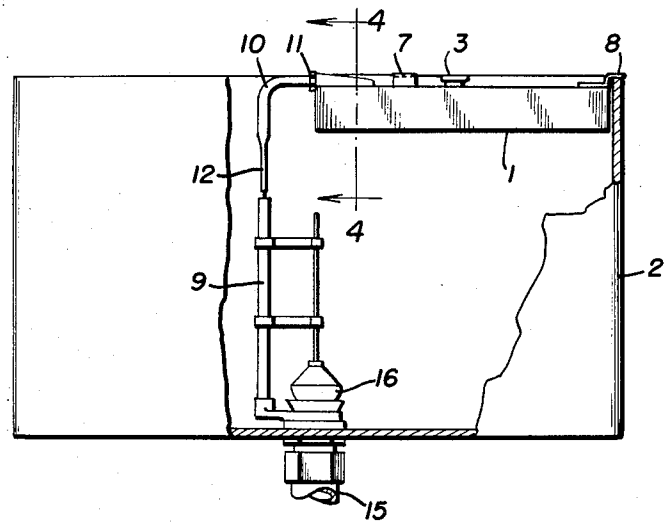
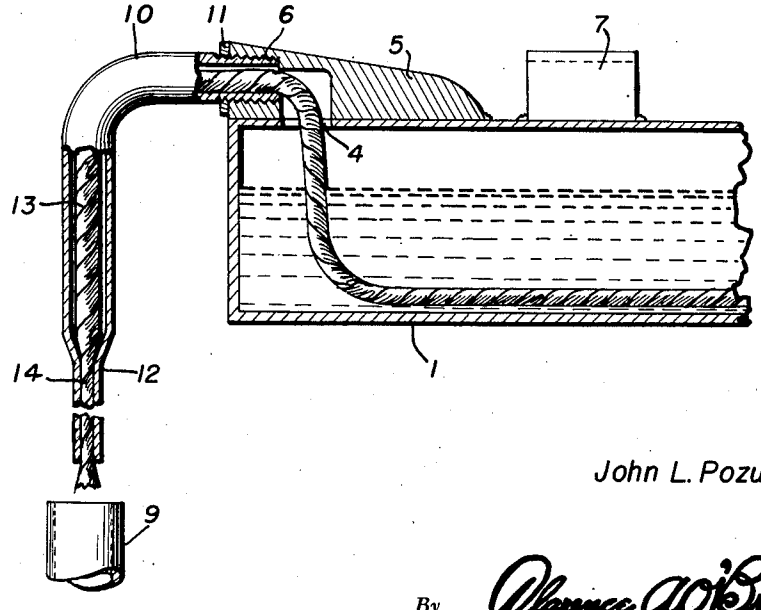


Fig. 2.



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Fig. 3.

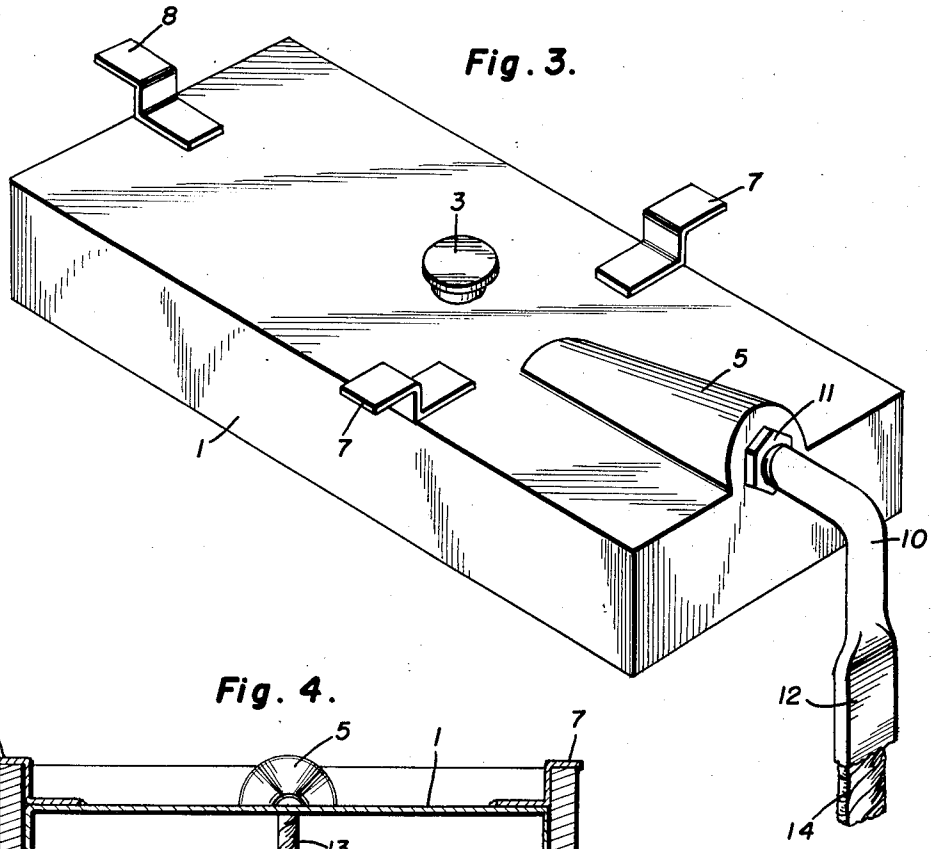
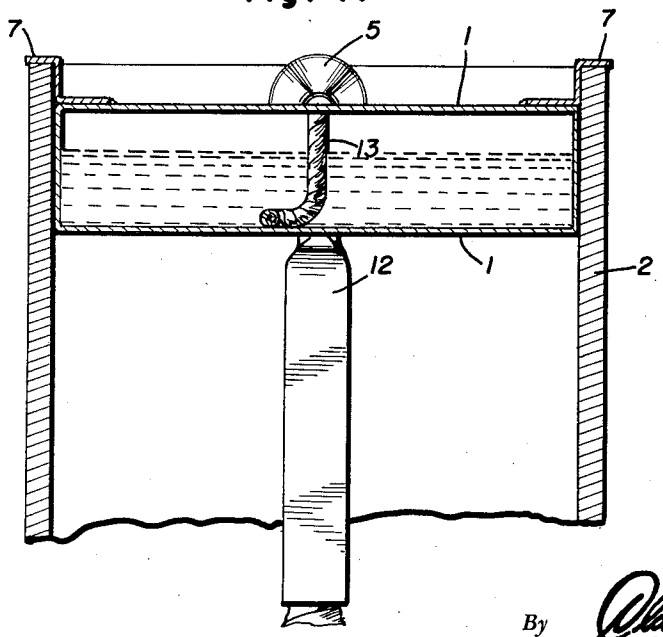


Fig. 4.



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UNITED STATES PATENT OFFICE

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DISINFECTING AND DEODORIZING DEVICE FOR TOILETS

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Original application December 6, 1944, Serial No. 566,883. Divided and this application April 21, 1947, Serial No. 742,957

1 Claim. (Cl. 4—228)

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My invention relates to improvements in disinfecting and deodorizing devices for toilet equipment of the type embodying a flushing tank, the instant application therefor being a division of my co-pending application Serial No. 566,883 filed December 6, 1944, now Patent No. 2,515,569, dated July 18, 1950.

The primary object of the instant invention is to provide means of a simple form and inexpensive construction adapted for easy, quick, attachment to the usual flushing tank of the present day toilet equipment, and to feed a disinfecting and deodorizing liquid drop by drop into the usual overflow pipe of the flushing tank to find its way through said overflow pipe into the toilet bowl and thereby act as a disinfecting and deodorizing medium in said bowl.

Other and subordinate objects, also comprehended by my invention, together with the precise nature of my improvements, will be readily understood when the succeeding description and claim are read with reference to the drawings accompanying and forming part of this specification.

In said drawings:

Figure 1 is a fragmentary view partly in side elevation and partly in section illustrating my improved disinfecting and deodorizing device installed in a flushing tank of the usual toilet equipment;

Figure 2 is a fragmentary view partly in side elevation and partly in longitudinal section drawn to an enlarged scale;

Figure 3 is a view in perspective of the liquid supplying receptacle detached with parts carried thereby; and

Figure 4 is a view in vertical transverse section taken on the line 4—4 of Figure 1 and drawn to a larger scale.

Referring to the drawings by numerals, my improved disinfecting and deodorizing device comprises, in the embodiment shown, a shallow, generally rectangular, liquid supplying receptacle 1 of a width adapting the same to fit in the top of the usual flushing tank 2, and of a length substantially equal to half the length of said tank. The liquid supplying receptacle 1 is closed, with the exception of a suitable filler neck 3 in the center and top of said receptacle, and a small aperture 4 in said top adjacent one end of the receptacle and for a purpose presently clear.

A hollow boss 5 is suitably fixed to the top of the receptacle 1 in communication with the aperture 4, said boss having an internally threaded bore 6 therein.

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The liquid supplying receptacle 1 is provided on the top thereof with means for suspending the same from the edges of the flushing tank 2, said means comprising a pair of side tabs 7 and an end tab 8, and which are of bendable material and adapted to be bent so as to hook over the adjacent top edges of the tank 1, as shown in Figures 1, 3 and 4. As will be seen in Figure 1, the described tabs 7, 8 provide for suspending the liquid supplying receptacle 1 in the top of the flushing tank 2 in a hidden position and so that said receptacle may be covered by the usual cover, not shown, for said tank. As will also be seen in Figure 1, the liquid supplying tank 1, when thus suspended, presents the boss equipped end thereof adjacent to the usual overflow pipe 9 of the flushing tank 2 with said end above said pipe.

A liquid feed nozzle, in the form of a goose neck pipe 10 depends from the boss 5 with one end threaded into the bore 6 and secured therein by a lock nut 11. The other end of the pipe 10 terminates in a flat portion 12 vertically aligned with the overflow pipe 9 and terminating at substantially the level of the upper end of said pipe 9. A wick 13 extends through said pipe 10 with an outer end portion 14 fitted tightly in the flat end portion 12 of the pipe 10, the remainder of the wick fitting loosely in the remainder of said pipe 10 and depending out of the boss 5 through the aperture 4 into the liquid supplying receptacle 1.

Referring now to the operation of the described invention, the liquid supplying tank 1 is designed to be filled with a suitable disinfecting and deodorizing liquid, and which is fed through the wick 13, by capillary attraction, through the described nozzle or pipe 10 into the overflow pipe 9 drop by drop. From the overflow pipe 9, the liquid finds its way into the water discharge line 15 of the flushing tank 2 each time the usual flushing valve 16 is operated. Also, the overflow pipe 9 communicating at its lower end with the water discharge pipe 15, in the usual manner, well understood, the disinfecting and deodorizing liquid drains into said pipe 15 even when the flushing valve 16 is closed.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the appended claim.

Having described my invention, what I claim as new is:

A disinfecting and deodorizing device for use in the flushing tank of a toilet comprising a closed receptacle for containing a disinfecting and deodorizing liquid, said receptacle having a top with an aperture therein, a boss attached to said top and provided with a bottom recess therein overlying said aperture in communication therewith, an L-shaped pipe having one end threaded into said boss into communication with said recess with its other end depending alongside the receptacle and terminating in a flattened portion extending below the receptacle, and a wick extending out of the receptacle through said aperture and recess and passing through said pipe out of said flattened portion in which said wick is compressed, said wick functioning by capillary attraction to feed the liquid out of the receptacle drop by drop, and means on said receptacle for engagement with the top of the tank to suspend the receptacle in said tank.

JOHN L. POZUN.

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