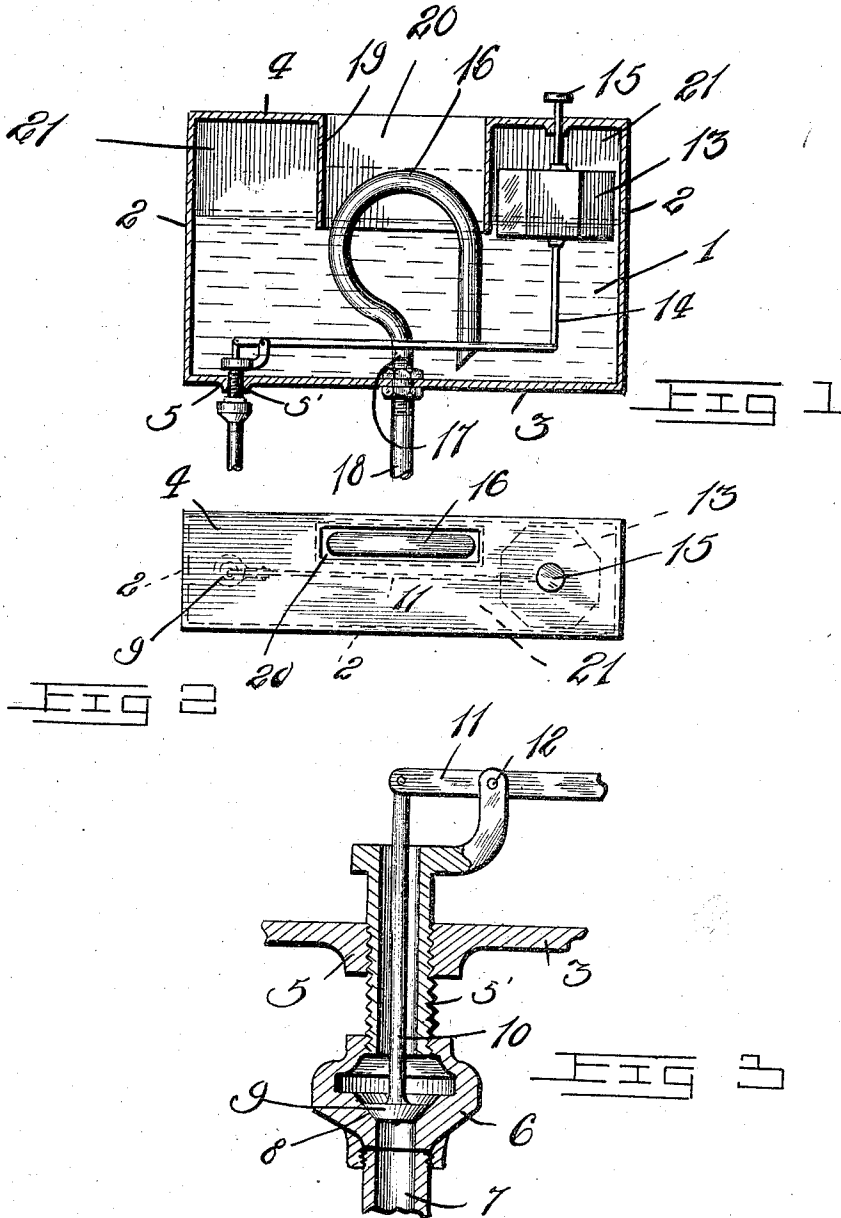


A. SIGOUIN.
 FLUSHING DEVICE FOR TOILETS.
 APPLICATION FILED JAN. 31, 1919.

1,306,285.

Patented June 10, 1919.



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UNITED STATES PATENT OFFICE.

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FLUSHING DEVICE FOR TOILETS.

1,306,285.

Specification of Letters Patent.

Patented June 10, 1919.

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To all whom it may concern:

Be it known that I, ADOLORD SIGOUIN, a subject of the King of Great Britain, residing at St. Agathe des Monts, Province of Quebec, Canada, have invented certain new and useful Improvements in Flushing Devices for Toilets; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to flush tanks for water closets and more particularly to a device for feeding water to the bowl of a toilet, whereby it may be flushed. It is an improvement on my former Canadian Patent No. 186,609, granted September 17th, 1918.

An object of the invention is to provide a device of this character, being of a siphon type, in which the siphonic action is started by the pressure on a button, suitably connected to an inlet valve as will appear in the following description, the water is suddenly allowed to rise within the tank, causing a siphonic action to start.

With the above and other objects in view which will hereinafter appear as the description continues, the invention consists of the novel features of construction, combination and formation of parts which will be hereinafter more fully described and particularly pointed out in the appended claims, these novel features permitting to provide a tank, which can be manufactured upon a comparatively low cost and at the same time be simple in operation and effective in use.

In the accompanying drawings has been shown a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details herein exhibited, but the right is hereby reserved to any changes, alterations or modifications to which recourse may be had that come within the scope of the claims without departing from the spirit of the invention or sacrificing the efficiency of the same.

Figure 1 is a vertical sectional view of the tank embodying the present invention;

Fig. 2 is a plan view of the same; and

Fig. 3 is an enlarged detailed section through the controlling valve.

Referring now more particularly to the accompanying drawings, wherein like and corresponding parts are designated by simi-

lar reference characters throughout the several views.

The numeral 1 indicates a tank having a longitudinal configuration and comprising the side walls 2, the bottom 3 and a top 4. The bottom 3 is provided with an internally threaded boss 5 adapted to receive a threaded sleeve 5'. Secured to the bottom of said sleeve 5', is a valve casing 6 connected with the supply pipe 7 and having a valve seat 8 adapted to receive a valve 9, this valve 9 has a valve stem 10 extending through the sleeve 5' and connected to a link 11 pivoted at 12. Its other end being connected to a float 13 by means of a vertical rod 14 which is provided with a push button 15 extending through the top 4 whereby the valve 9 may be unseated through the winging movement of the link 11. To remove dirt or any foreign matter within the valve seat 8 the body portion 6 may be readily removed so as to disengage the sleeve 5' without difficulty.

Positioned within the tank 1 is a siphon 16 having its inlet end terminating adjacent to the bottom 3 of the tank and its outlet end 17 communicating with a pipe 18 which leads to the flush bowl of an ordinary toilet.

Formed with the top 4 of the tank is a depending flange 19 which provides a vent opening 20. This vent opening permits the water to readily arise therein thereby giving the greater body of water around the siphon 16. The flange 19 encircles the upper portion of the siphon pipe whereby the space around this flange and within the upper portion of the tank 1 forms an airtight chamber 21.

The operation is as follows:—

When the operator pushes upon the button the valve 9 will be opened through the mechanism before described whereby additional water enters the tank 1. This new supply will have a tendency to first rise within the vent opening 20 and it will assume the level indicated by the dotted line in Fig. 1 of the drawings.

As the water within the vent opening is above the upper line within the siphon pipe 16, a siphon will be set up wherein the water contained within the tank will readily pass within the siphon pipe into the outlet pipe and then to be discharged to the bowl of the toilet.

As the tank is being emptied the float valve 13 will descend thereby retaining the valve 9 in an open position and also permit-

ting the water to flow into the tank 1. This new supply of water will rise within the tank 1 until the float valve assumes the position as shown in Fig. 1 thereby closing the valve 9 and cutting off the supply of water. A new body of water will be retained within the tank until the valve 9 is opened by pushing upon the button 15.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A flush tank of the character described, an inlet pipe leading to said tank, a valve for said inlet, a siphon pipe arranged within said tank, said tank having an outlet opening therein and a depending flange extending around the upper part of the tank that portion of the upper wall included within said flange being open to admit atmospheric air, and a float arranged in the closed portion of said tank, and means for operatively connecting said float with said inlet valve substantially as and for the purpose specified.

2. In a device of the character described the combination with a rectangular tank, having a top therefor, said top having an

opening therein, a depending flange formed with said top and extending around said opening, forming an annular chamber, a siphon outlet pipe arranged within said tank, and having its upper end extending within said flange, a threaded sleeve extending through said tank, a casing detachably connected to said sleeve, having a valve seat therein, an inlet pipe communicating with said casing, a valve for said valve seat, a stem carried by said valve and projecting through said sleeve, a pivotally supported lever mounted upon said sleeve and connected to said valve stem, a float valve connected to one end of said lever, a rod connected to said float valve and projecting through said chamber, and a knob carried by said rod whereby said float valve may be manually forced downwardly and said valve opened substantially as described and for the purpose specified.

In witness whereof I have hereunto set my hand.

ADOLORD SIGOUIN.

Witnesses:

JOSEPH BERGERON,
W. POWERS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."