F. G. WANGELIN.

WATER SUPPLY OR FLUSH TANK.

APPLICATION FILED NOV. 27, 1909.

1,082,056. Patented Dec. 23, 1913.

Fig. 1.

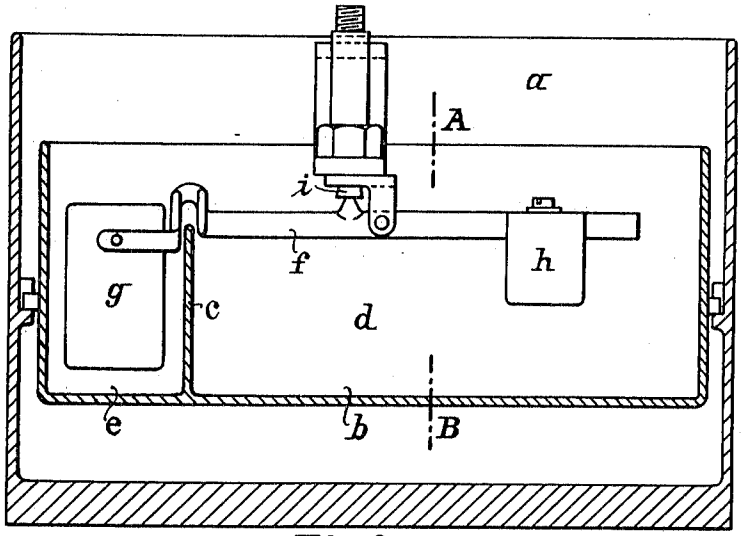


Fig. 2.

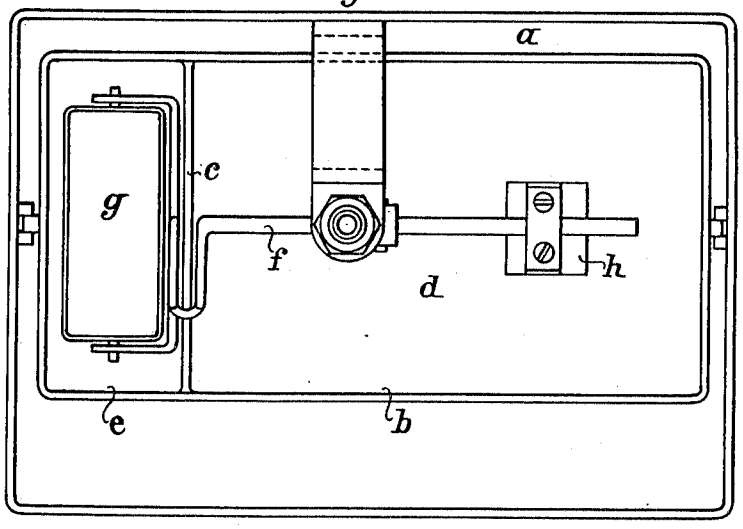
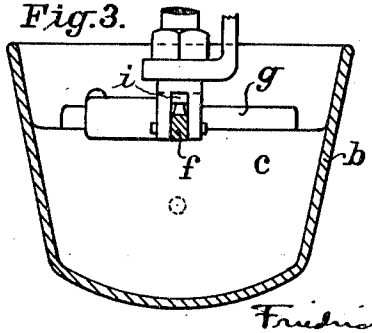


Fig. 3.



Witnesses:-
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UNITED STATES PATENT OFFICE.

FRIEDRICH GEORG WANGELIN, OF DRESDEN, GERMANY.

WATER-SUPPLY OR FLUSH TANK.

1,082,056. Specification of Letters Patent. Patented Dec. 23, 1913.

Application filed November 27, 1909. Serial No. 530,113.

To all whom it may concern:

Be it known that I, FRIEDRICH GEORG WANGELIN, engineer, a subject of the King of Saxony, and resident of 73 Holbeinstrasse, Dresden, Kingdom of Saxony, German Empire, have invented a new and useful Improvement in or Relating to Water-Supply or Flush Tanks, of which the following is a specification.

The present invention has reference to the construction of water supply or flush tanks such as used for instance for flushing closets especially tanks which are provided with a tilting vessel and the novelty is especially seen in the fact that with a flush tank provided with such tilting vessel the latter is divided into a small and a large compartment by means of a partition or wall and that in connection therewith there are provided means arranged within the smaller compartment of the tilting vessel for regulating the water supply valve which vessel is filled by means of an overflow from the main compartment, the overflow taking place over the partition between the two compartments, and on tilting this is emptied together with the main chamber. Therefore it need not be emptied into the main compartment through siphon action or by means of a valve, as is the case with flush tanks having a direct water supply.

The means used for regulating the water supply valve consists of a lever connected to said valve and also to a diving body arranged in the smaller compartment and regulating the water supply according to the height of the water in said smaller compartment. The lever device used provides as known for a late beginning of the filling movement and of the closing movement of the supply valve for the flush water.

On the accompanying drawing the flush tank with a tilting vessel and together with means for controlling the water supply according to the invention is shown by way of example in Figure 1 in a longitudinal section, in Fig. 2 in a plan-view and in Fig. 3 in a section according to line A B of Fig. 1.

a is the flush tank in which the tilting vessel *b* is loosely and pivotally supported by means of pins so as to easily turn or tilt. Said tilting vessel is divided by means of a fixed partition or wall *c* into the main compartment *d* and into the smaller compartment *e*. Within the tilting vessel *b* the lever *f* controlling the water supply valve *i* is pivotally supported by the stationary frame of the valve. To the one arm of the lever is connected a diving body or weight *g* pending into the smaller compartment *e* and consisting by way of example of a closed box. *h* is a weight moving within the main compartment *d* and connected to the other arm of the lever thus being adapted to close the supply valve.

For the purpose of avoiding when the vessel *b* is tilted the partition or wall *c* forming a hindrance by knocking against the lever *f*, the latter is provided with a double bend at the point, where it passes over the partition or wall in such a manner that the latter when the vessel *b* is tilted enters into the double bend of the lever *f*. That lever *f* is provided with a bifurcated end and is connected to the diving body *g* by pins.

What I claim is:

In a flush tank, the combination with a tilting vessel, of a partition wall dividing said tilting vessel into a larger and smaller compartment and allowing the admission of the water from the larger into the smaller compartment over its upper edge only and the direct discharge of the smaller compartment simultaneously with that of the larger one, a valve controlling the water supply to the said larger compartment, a double armed lever connected to the said valve and provided with two bends for receiving the upper edge of the partition of the vessel when tilted, a weight connected to one end of the double armed lever, a diving body of a volume or capacity relatively large in comparison to that of the smaller compartment, connected to the other end of the lever, counteracting the weight and pending into said smaller compartment of the divided tilting vessel for regulating the water supply valve according to the height of the water in the smaller compartment mentioned.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this thirteenth day of November 1909.

FRIEDRICH GEORG WANGELIN.

Witnesses:

ORLO H. RUOOP,

ULYSSES J. BYWATER.

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