F. D. REYNOLDS
CONCEALED FLUSH TANK
Filed April 30, 1931

Fig. 1

Fig. 2

Fig. 3

Fig. 4

INVENTOR
Frederick D. Reynolds

ATTORNEY
This invention relates to new and useful improvements in concealed flush tanks.

The objects of the invention are to provide a flush tank which is so constructed that it can be placed within the wall between two spaced-apart studs thereof whereby said tank is concealed and does not take up space in the room.

Other objects of the invention are to provide a flush tank construction including a flush tank disposed within a recess formed in the wall and a plate removably fitted against said wall so as to close said recess and completely enclose said tank, said plate being provided with a removable portion whereby access can be had to the upper end of said tank.

Further objects of the invention are to provide a concealed flush tank and a plate for enclosing said tank within the wall, the upper end of said plate being provided with an opening in which is detachably arranged a box-shaped housing opening outwardly through said plate and forming a shelf, said housing being removable to provide access to said tank.

With these and other objects in view, my invention consists in certain novel features of construction and arrangement of parts, hereinafter more fully described and claimed, and illustrated in the accompanying drawing, in which—

Figure 1 is a vertical cross section through a wall showing the tank in position therein.

Figure 2 is a fragmental front elevational view of a wall showing the tank enclosed therein.

Figure 3 is a rear elevational view thereof.

Figure 4 is a vertical cross section showing a modified form of my invention.

Referring by numerals to the accompanying drawing, 10 indicates a partition wall having spaced studs 11. One side, such as 10a, of the wall is provided with a rectangular opening 12 which forms entrance to the cavity or recess 14 formed within said wall. This opening is pre-ferably coextensive in width with the space between said studs and extends a suitable distance above the upper end of a flush tank 15 arranged in said recess 14. This tank is disposed therein at the desired height and is supported in any suitable manner, such as brackets or shoulders 16 which are fixed to the respective studs at the proper heights and are engaged by the bottom of said tank.

This tank is formed comparatively narrow so as to fit within the sides 10a and 10b of the wall. However, the capacity of the tank is not impaired thereby, since the height thereof can be increased as required. The upper end of the tank is closed by a cover 17 which is wholly located within the cavity 14 and arranged above this cover is a shelf member 18 which is in the form of a box turned on one side so as to present the open end thereof inwardly into the room through an opening 19 formed in the upper end of a plate 20. This plate is secured in position to the side 10b of the wall in any suitable manner, such as fastening screws 21 so as to close opening 12. Box member 18 is detachably mounted in position and can be removed to provide access through said opening 19 to cover 17 and to the tank when said cover is removed.

A handle 22 is mounted exteriorly of said plate 20 and is operatively connected to the flush tank mechanism for actuating the same. A supply pipe 24 extends upwardly through the upper end of said cavity and connects to the bottom of said tank and is provided with a valve 25 which extends outwardly through plate 20 so that the water supply can be shut off without disconnecting said plate. A discharge pipe or water outlet 26 extends from said tank outwardly through plate 20 and connects to bowl 27. The shelf member 18 may be left open or may be closed by a door 28.

Thus it will be seen that the tank is concealed and therefore does not require to be made of expensive material, or to be excessively finished, but may be constructed of sheet metal. Furthermore, considerable saving in floor and wall space is effected by this construction since the tank occupies space which would be otherwise wasted.

The tank may be constructed of suitable material, such as iron, porcelain, zinc, or copper.

Preferably the tank is surrounded with insulating material, as indicated at 29, which reduces the sound to minimum.

The cover 20 is preferably disposed flush with the wall and finished in the same manner so as to render it inconspicuous. As the height of the tank can be increased, the capacity of the tank is not affected by the reduction in width.

Great saving in wall and floor space is obtained by the use of my concealed tank and the appearance of the room is improved.

The other side 10b of the wall 10 is provided near the lower end of the recess 12 with a door 30 which is so located that access can be had to the pipe connection disposed below the tank 15. Connections 24 and 26 can be disconnected from the tank without disturbing the front wall 10b. Thus by the use of member 18 and door...
2

any ordinary adjustments or repairs can be made without removing closure plate 20.

In the modified form shown in Figure 4, the tank 31 is separated from the bathroom by wall 32 which is devoid of any openings or recesses, only pipe 26 and handle 22 extending through said wall. The wall 34 located in the other room is provided with a detachable panel 35. When this panel is removed, the tank and its connection are exposed. This arrangement leaves the bathroom wall free of any unsightly lines or closure members.

1. In a flush tank construction, the combination of a wall having a recess formed in one side thereof, a flush tank supported within said recess, a cover plate detachably secured to said wall for closing said recess, said plate being disposed in its upper end with a horizontally disposed opening arranged above the upper end of said tank to provide access thereto, a box-shaped member having an open front removably disposed within said wall recess above said tank, and a closure member hingedly mounted on said cover plate for closing the open front of said box-shaped member.

2. In a flush tank construction, the combination of a wall having a recess formed therein, the sides of which are formed by a pair of studs, a pair of opposed lateral projections fixed on the inner sides of said studs, a flush tank supported on said projections within said recess, a cover plate detachably secured to said wall to form a closure for said recess, said cover plate being provided in its upper end with a horizontally disposed opening arranged above said flush tank and providing access to the upper end thereof, a removable box-shaped member extending through said opening into said wall recess and resting on the upper end of said tank, said box-shaped member having an open front, and a door removably secured to said cover plate to provide a closure for the open front of said box-shaped member.

FREDERICK D. REYNOLDS.