

G. H. BAILEY.
TANK FOR WATER CLOSETS, &c.
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948,657.

Patented Feb. 8, 1910.

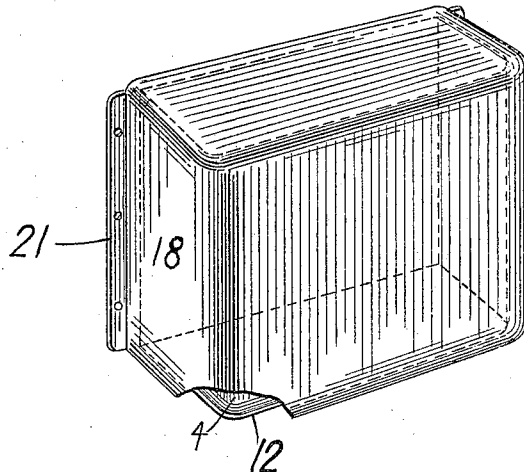


FIG. 1.

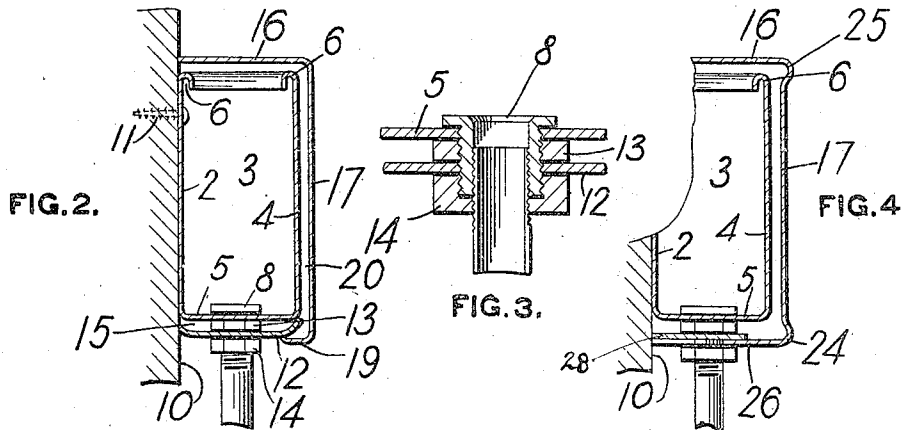


FIG. 2.

FIG. 3.

FIG. 4.

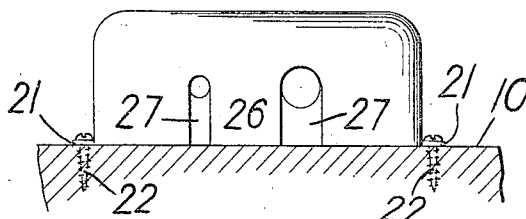


FIG. 5.

WITNESSES
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UNITED STATES PATENT OFFICE.

GEORGE H. BAILEY, OF PITTSBURG, PENNSYLVANIA.

TANK FOR WATER-CLOSETS, &c.

948,657.

Specification of Letters Patent.

Patented Feb. 8, 1910.

Application filed November 16, 1908. Serial No. 462,856.

To all whom it may concern:

Be it known that I, GEORGE H. BAILEY, a resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Tanks for Water-Closets, &c., of which the following is a specification.

This invention relates to flushing and other water containing tanks and more particularly to flushing tanks for water closets.

The object of the invention is to provide a tank constructed of metal and provided with means for preventing sweating of the tank.

Flushing and similar tanks constructed of thin sheet metal and enameled are slightly and sanitary, but are objectionable on account of sweating. Various constructions and arrangements of sheet metal tanks to avoid sweating or take care of the condensation have been devised.

The present invention has for its object a tank of the character named which is so constructed as to prevent sweating as far as possible, and by a construction which is simple and comparatively cheap.

The invention comprises a tank and associated parts such as hereinafter described and claimed.

In the accompanying drawing Figure 1 is a perspective view partly broken away of the tank; Fig. 2 is a vertical section through the same; Fig. 3 is a vertical section on an enlarged scale through the flushing outlet; Fig. 4 is a vertical section showing a modification; and Fig. 5 is an inverted plan of the same.

The tank proper may be of any suitable shape, size and material. It is shown made from thin sheet metal in the form of a rectangular box having a rear wall 2, end walls 3, front wall 4 and bottom 5. These parts may be constructed in any suitable way, either by pressing from a single sheet of metal or by forming in several pieces suitably united together. I prefer to form the same with the bottom and back composed of one sheet of metal and the two ends and front composed of another sheet of metal united to the bottom and back at the bottom and rear vertical corners by welding as described in my application Serial No. 434,618, May 23, 1908. The top edges of this tank will be strengthened by either curling the same over to form a bead 6 or adding a suitable strengthening bead thereto. The

bottom of the tank is provided with suitable openings, one for the supply pipe and inlet valve and another for the flushing valve fitting 8. This tank is preferably coated inside and out with enamel, paint or galvanized coating to protect the same from corrosion, although if desired it can be made of some non-corrodible metal or other material, such as porcelain. It is not intended to be exposed and therefore need not be made as slightly as otherwise would be the case.

The tank described is supported from the wall 10 or other suitable base by any suitable means, such as by means of the screws 11.

Underneath the tank I support a suitable pan or plate 12 which is shown held in position between the nuts 13 and 14 of the flushing valve fitting 8. This plate or pan is of such size as to project slightly beyond the bottom of the tank and is supported so as to leave an air space 15 between itself and the bottom of the tank. The tank is covered by means of a hood having a top 16, front wall 17 and end walls 18, and having its lower edges turned inwardly, as at 19 to project underneath the plate 12. This hood is of a size to leave an air space 20 between the same and the tank both at the front and at the ends. This hood may be supported in place in any suitable way, being shown provided with flanges 21 on the end portions by means of which it is secured to the tank or to the wall or base 10 by screws 22 or other means. This hood can be formed either from a single sheet of metal pressed to shape or of separate pieces. I prefer to form the top of one plate and the front and end portions of another plate and unite the same by a welded or similar joint. This hood may be made perfectly plain at the corners, as in Figs. 1 and 2 or may be provided with a swell 24 at the bottom and a similar swell 25 at the top corner as in Fig. 4. It is suitably enameled, preferably on the inside as well as the outside, so as to give a sanitary and slightly finish and also protect the metal against corrosion.

Figs. 4 and 5 show a modification in which the plate 12 is dispensed with and the lower edge of the hood carried inwardly as at 26, to completely cover the bottom of the tank and provide the air space. Said bottom is slotted from the rear edge, as at 27, to pass over the supply and outlet pipes and said slots are covered by plates 28. (See Fig. 4.)

The hood described provides not only the

double wall with the air space between to prevent condensation, but also provides the cover, so that a separate cover for the tank is not necessary. To this extent it reduces the cost of the tank. The bottom pan or plate is also spaced from the bottom of the tank to give the necessary air space at this point. On account of the air spaces an insulating body is provided which largely overcomes the tendency to sweat.

The tank is of simple construction, easy to manufacture, and of moderate cost.

What I claim is:—

1. A removable hood or jacket for flushing or other tanks comprising a top forming a cover for the tank, and front and end walls, and having its lower portion formed to permit the removal and replacement of said hood without disturbing the tank inlet and outlet connections.

2. A removable hood or jacket for flushing or other tanks comprising a top forming a cover for the tank, and front and end walls, and having its bottom portion formed to permit the removal and replacement of said hood without disturbing the tank inlet and outlet connections, the end walls of said hood being provided with means for securing the hood in place.

3. In flushing and like tanks, the combination of a tank, a plate arranged to be supported adjacent to the bottom of the tank, and spaced therefrom, and a removable hood comprising a top, front and ends and being open on the back and bottom and fitting over the tank and spaced from the ends and front thereof.

4. In flushing and like tanks, the combination of a tank, a flushing valve fitting in the bottom thereof, an air space forming plate underneath the tank and spaced therefrom and held in position by the flushing valve, and a removable hood or jacket comprising a top, front and ends and being open on the bottom and back and fitting over the tank and spaced from the front and end walls thereof.

5. In flushing and like tanks, the combination of a tank, an air space forming plate supported adjacent to the bottom of the tank, and a hood or jacket over the tank and spaced from the ends and front walls thereof and having its lower edge turned inwardly underneath said plate.

6. In flushing and like tanks, the combination of a tank, a plate supported underneath and adjacent to the bottom of the tank, and a sheet metal hood fitting over the tank and forming the cover therefor and spaced from the front and end walls of the tank and having its lower edge turned inwardly.

7. In flushing and like tanks, the combination of a tank, provided in its bottom with a flushing valve fitting, a plate supported on said flushing valve fitting underneath and adjacent to the bottom of the tank, and a sheet metal hood fitting over the tank and forming the cover therefor and having front and end portions spaced from the front and end walls of the tank and having its lower edge turned inwardly underneath said plate.

8. In flushing and like tanks, the combination of a tank, and a sheet metal hood fitting over the tank and forming the cover therefor and having front and end portions spaced from the front and end walls of the tank and having its lower edge projecting inwardly and horizontally and formed to permit the removal and replacement of said hood without disturbing the tank inlet and outlet connections.

9. A sheet metal hood or jacket for flushing or other tanks comprising a top forming a cover for the tank, and front and end portions, the front portion having its lower edge extending inwardly and horizontally and formed to permit the removal and replacement of said hood without disturbing the tank inlet and outlet connections.

10. A removable sheet metal hood or jacket for flushing or other tanks comprising a top forming a cover for the tank, and front and end portions, said hood being open on the back to permit its removal and replacement from the front.

11. A removable sheet metal hood or jacket for flushing or other tanks comprising a top forming a cover for the tank, and front and end portions, said hood being open on the back and bottom to permit its removal and replacement without disturbing the tank inlet and outlet connections.

In testimony whereof, I have hereunto set my hand.

GEORGE H. BAILEY.

Witnesses:

WILLIAM I. KING,
F. W. WINTER.