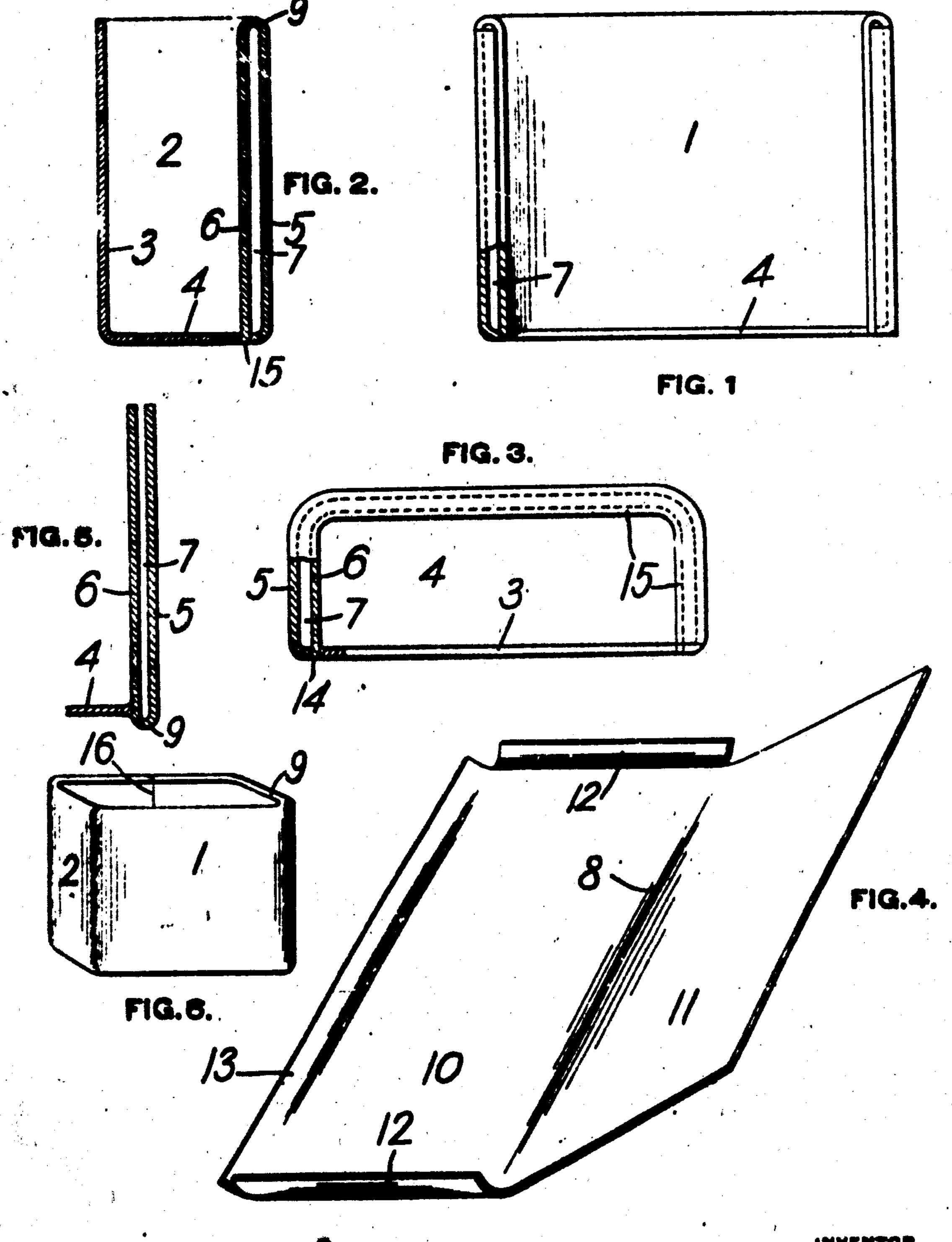
G. H. BAILEY.
TANK FOR WATER CLOSETS, &c.
APPLICATION FILED NOV. 16, 1906.

948,658.

Patented Feb. 8, 1910.



Charie Mhaper.

George H. Briley. By Frack Whitey. His allumey.

UNITED STATES PATENT OFFICE.

GEORGE H. BAILEY, OF PITTSBURG, PENNSYLVANIA.

TANK FOR WATER-CLOSETS, &c.

948,658.

Patented Feb. 8, 1910. Specification of Letters Patent.

Application filed November 16, 1906. Serial No. 462,857.

To all whom it may concern!

Be it known that I. George H. Bailey, & resident of Pittsburg, in the county of Allegheny and State of Pennsylvania, have in-5 vented 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 par-10 ticularly to flushing tanks for water closets

and the like.

The object of the invention is to provide a tank of thin sheet metal and so constructed as to entirely climinate, or at least greatly

15 reduce, the sweating of the tank.

Flushing and similar tunks constructed of sheet metal and enameled are sightly and sanitary but are objectionable on account of the sweating or condensation of a oisture on their outer surfaces. Various constructions and arrangements to avoid sweating or take care of the condensation have been devised.

The present invention has for its object a 25 tank of the character named which is so constructed as to eliminate, or practically eliminate, the sweating or condensation referred to, and which is of simple and of

comparatively cheap construction.

The invention comprises a tank constructed

as hereinafter described and claimed.

In the accompanying drawing Figure 1 is a rear view of the tank, partly broken away; Fig. 2 is a vertical transverse section 35 through the same; Fig. 3 is a plan view, partly broken away; Fig. 4 is a perspective view of the blank from which the body portion is formed showing the same partly bent up; Fig. 5 is a sectional view of a modifica-40 tion; and Fig. 6 is a perspective view of

another modification.

The tank may be of any suitable shape and size, preferably of rectangular form with rounded corners us is the present practice 45 in flushing tunks. The tank has a front wall 1, end walls 2, rear wall 3 and bottom 4. The front and end walls are double, that is formed with an outer sheet 5 and an inner sheet 6 separated by the intervening air 50 space 7. This double wall at the front and the two ends is preferably formed from a single sheet which is cut of the shape shown in Fig. 4 and then folded along the line 8 to bring the two parts parallel and form 55 the rounded connecting portion 9 which forms the top edge of the tank. The wider

portion 10 of the blank forms the outer wall and the narrower portion 11 forms the inner walls. The wider part 10 has its edge portions 11 bent inwardly to close the ends of 30 the space 7 at the rear of the tank and its bottom edge 13 folded inwardly to close the space 7 at the bottom of the wall. The double plate is bent to form the front and the end wall portions before the edges 12:65 and 18 are folded inwardly. The back wall 8 and bottom 4 are preferably formed from a single sheet of metal bent to angle shape and of a size to have its edges contact with the bottom and rear edges of the inner wall:70 portion 6 and with the edges of the inturned portions 12 and 13 of the outer sheet. These parts are united in any suitable may, such as by soldering, brazing or welding, preferably by welding by the electric or 75 blow pipe system. Since the edges of the parts abut, a single welded joint serves to unite the bottom or back to the endownd front wall portions and also unite the suges of the inner and outer end wall portions. 80 There is a vertical joint 14 of this character along the back near each end and also a joint 15 on the bottom extending across near each end and near the front.

Fig. 5 shows a modification in which the 85 doubled walls have their open edges upwardly, the rounded connecting portion 9 being at the bottom. In this case, the air space 7 is not hermetically sealed, as in Figs. 1 to 3. Fig. 6 shows another modification 90 in which the double wall extends: around and forms the back as well as the emis and front of the tank, the double walls having their ends meeting on the back at/16; The rounded cornecting portion 9 in this modific 95 eation may be at either top or bottom. The meeting edges are joined at 16. by a butt weld, and the joint is then ground to smoothen it and reduce the thickness at the weld to substantially the thickness of the 10 sheets so as to secure a uniform coating of enamel.

The front wall may project out slightly at the top and also near the bottom for a more ornamental effect and to more effectu- 10 ally retain the enamel. The entire body after completion is covered with enamel and the surfaces of the air space 7 will be either galvanized, painted or enameled in order to prevent corrosion. For this purpose one of 1 the sheets will be provided with a hole through which the conting liquid can be in-

serted and which hole is afterward hermetically sealed. A cover of any suitable shape will be provided. The tank will be provided with the usual openings in its bot-5 tons or elsewhere for the supply pipe or valve and for the flushing valve or outlet pipe, and will also be provided with any suitable valve mechanism and operating

mems.

The tunk described has a body formed of two sheets united by a single joint thereby reducing to a minimum the labor cost in manufacture. The front and end walls are hollow and in the preferred form provide a 15 hermetically sealed dead air space which

practically overcomes all sweating or condenmation. The back is usually in contact with the wall so that swenting at this point is reduced to a minimum and the bottom is

20 of restricted area so that the amount of condensation thereon is not sufficient to be objectionable. It may be covered by a water-proof felt mat which acts as a nonconductor and prevents sweating.

What I claim is:--

1. A sheet metal flushing or like tank having its front and end walls formed double and spaced apart and providing a hermetically sealed air space, and a bottom 30 and back secured to said double walls.

2. A sheet metal flushing or like tank having double walls spaced apart and formed from a single sheet of metal doubled on itself to form the inner and outer walls, and 35 a bottom secured to said double walls.

8. A sheet metal flushing or like tank having double walls spaced apart, said walls being composed of a single sheet of metal doubled on itself to form the inner and 40 outer walls, the bent or curved portion forming the top of the tank, and a bottom secured to the free lower edges of said double wall.

4. A sheet metal flushing tank having front 45 and end walls spaced apart and formed from a single sheet of metal doubled on itself to form the inner and outer walls, the bent or curved part forming the top of the tank, and a lasteau and back secured to the lower 50 religes of said walls. -

5. A sheet metal flushing or like tank having double walls spaced apart and formed

from a single sheet of nietal doubled on itself to form the inner and outer walls, a rear wall secured to the free vertical edges of 35 the double end walls and a bottom accured to the lower edges of the double end and front walls.

6. A sheet metal flushing or like tank having double walls spaced apart and formed 64 from a single sheet of metal doubled on itself to form the inner and outer walls, the edges of the outer portion being bent inwardly and meeting the edges of the inner portion, and a bottom secured to the free 61

edges of said outer and inner walls.

7. A sheet metal flushing and like tank having double front and rear walls spaced apart and formed from a single sheet of metal doubled on itself to form the inner 70 and outer walls, the outer wall portion having its rear vertical edges and its bottom edges bent inwardly and meeting the edges of the inner wall, and the back and bottom having their edges contacting with the free 7 edges of the wall portion and joined thereto.

8. A sheet metal flushing or like tank having double walls with a hermetically scaled air space there-between, and a back and bottom, the meeting edges of said parts being \$

united by a welded joint.

9. A sheet metal flushing or like tank having double walls separated by a hermetically senled air space, and a bottom and back, the edges of the bottom and back end of the 1 inner and outer wall portions being united by a single joint.

10. A sheet metal flushing or like tank having the meeting edges of the sheets welded and reduced to substantially the 1 thickness of the sheets, the whole being cov-

ered with a coating of enamel.

11. A sheet metal flushing or like tank having the meeting edges of the sheets joined by a butt weld joint which is smoothed t and the whole covered with a coating of enamel.

In testimony whereof, I have hereunto set

my hand.

GEORGE II. BAILEY.

Witnesses: William I. King, F. W. WINTER.