Aug. 4, 1931. G. A. NILSON 1,817,641

SHOWER COMPARTMENT

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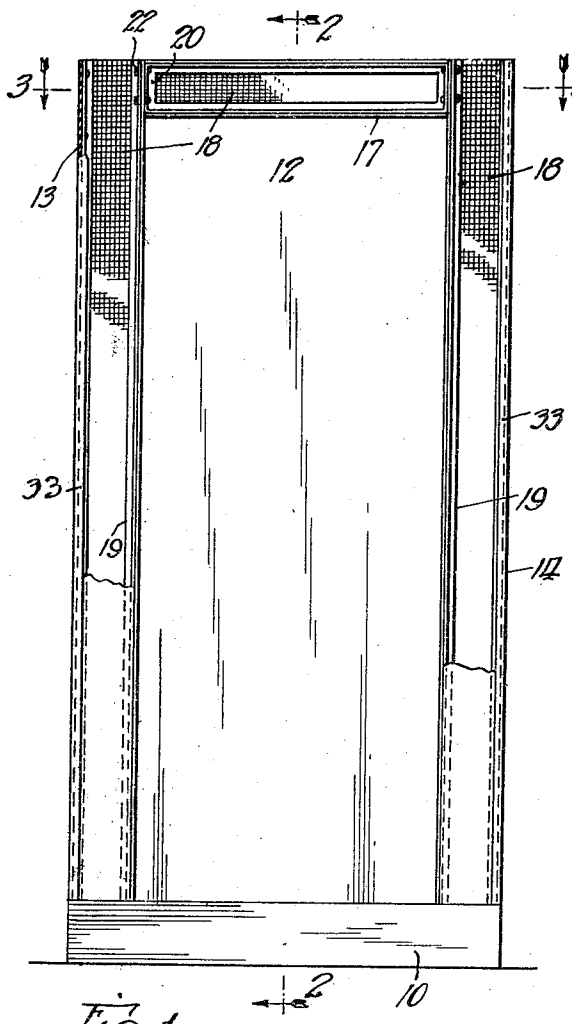


Fig. 1.

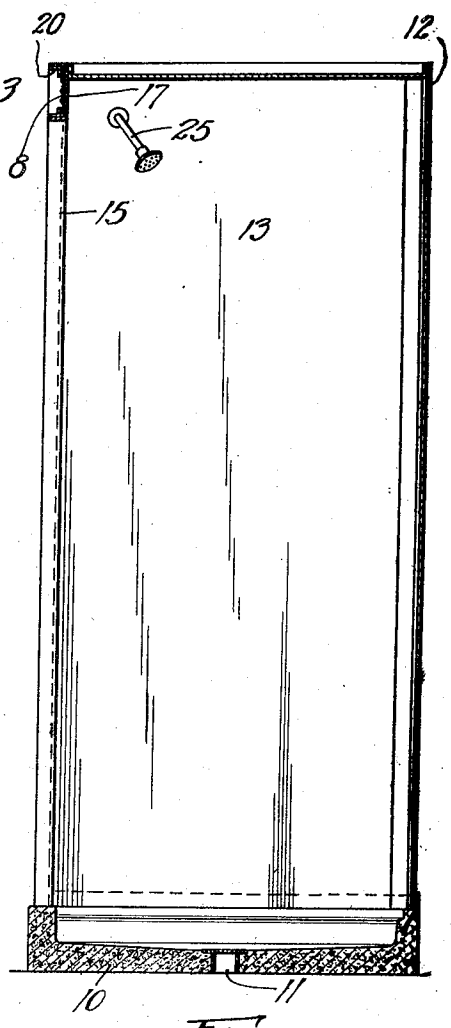


Fig. 2.

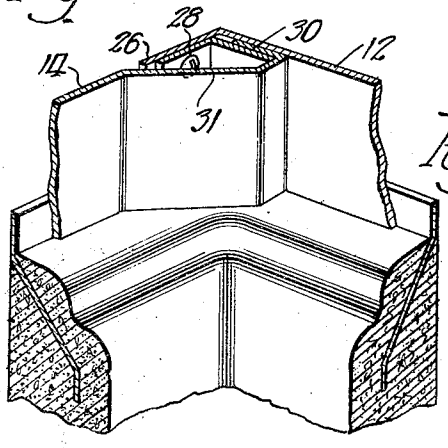


Fig. 6.

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Fig. 3.

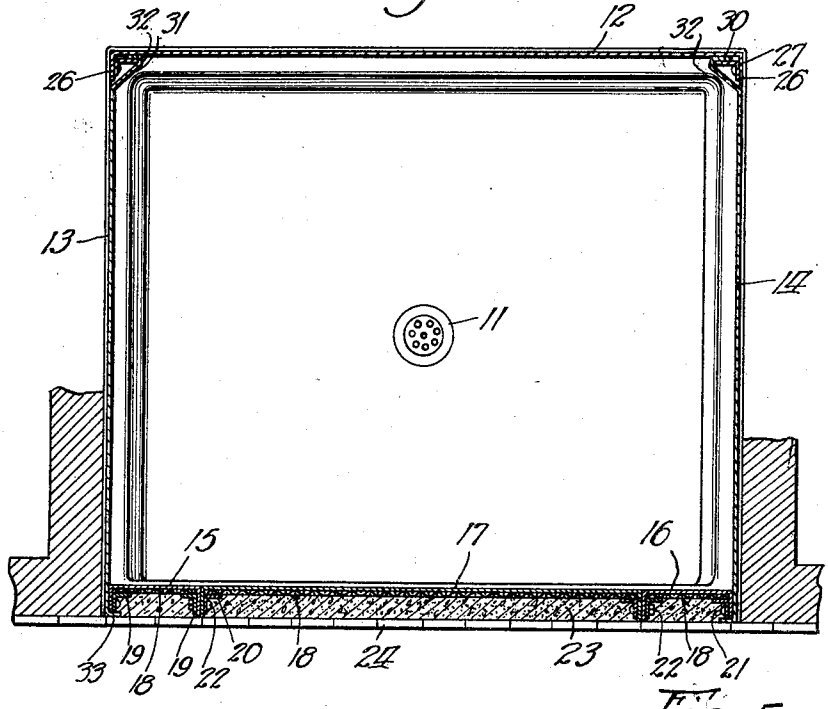


Fig. 4.

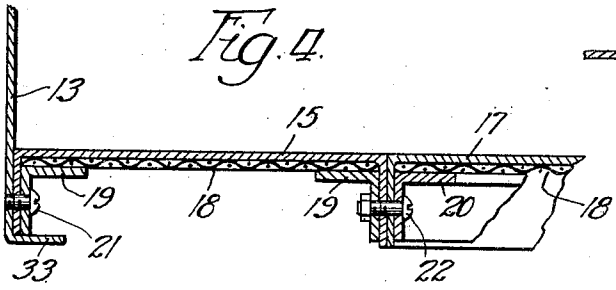
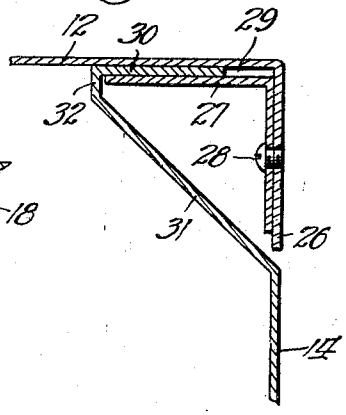


Fig. 5.



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UNITED STATES PATENT OFFICE

GUSTAF ALBIN NILSON, OF CHICAGO, ILLINOIS

SHOWER COMPARTMENT

Application filed June 18, 1928. Serial No. 286,290.

My invention relates to compartments for shower baths and the like, and has as one of its objects the provision of a water-tight joint between various elements thereof. When using the term "water-tight" herein, I mean it, of course, to be understood in connection with the particular kind of device to which this invention relates, by which I mean that the term water-tight is to include a structure such that it is water-tight for the purposes as set forth herein.

My invention has as a further object, the provision of an improved joint of this kind which can be assembled without injuring a coating such as an enamel coating which is provided upon various elements of the compartment prior to assembly. It is desirable to transport the parts in an unassembled condition in order to save space and it is necessary that the parts be in their finished form individually so far as finish is concerned prior to such transportation.

My invention has as a further object the provision of other novel features of a compartment structure such as will appear as the description of the device proceeds.

I will now describe specifically one form which my invention may take by referring to the accompanying drawings illustrating the same in which—

Fig. 1 is a front view partly dismantled of a shower bath structure arranged in accordance with my invention;

Fig. 2 is a sectional view on line 2—2 of Fig. 1;

Fig. 3 is a sectional view on line 3—3 of Fig. 1 showing more clearly my improved water-tight joint;

Fig. 4 is a fragmentary enlarged view of the front portion of the compartment as shown in section in Fig. 3;

Fig. 5 is a fragmentary sectional enlarged view of the joint as shown in Fig. 3; and

Fig. 6 is a fragmentary broken view illustrating perspectively my improved water-tight joint.

My improved shower bath structure includes as one of its elements a receptor or base plate 10 such as described and claimed in my copending application, Serial No. 123,374, filed July 19, 1926. This receptor is designed to catch the water used in the shower bath and to direct the same through a suitable drain 11 as is readily apparent.

My invention concerns itself more particularly with the compartment which surmounts this receptor and consists of the three wall portions, respectively the rear wall portion 12 and the two side wall portions 13 and 14. These three wall portions 12, 13 and 14 are preferably made of sheet metal and may be enameled on their inner surfaces. These wall portions are united at the rear corners by means of my improved water-tight joint which will be presently explained.

The front portion of the shower bath structure is made of two door jams 15 and 16 respectively, preferably in the form of channel irons which are united at their upper portion by means of the head rail 17. These parts are mounted together as shown more clearly in Figs. 3 and 4. The elements 15, 16 and 17 are provided with metal lath 18 which is held in place by means of suitable angles 19—19 and the angle plate structure 20. The parts 13, 15 and 19 are then suitably held in place by means of sheet metal screws 21 as shown and the parts 15, 17, 19 and 20 are suitably held together by means of bolts 22.

As shown more clearly in Fig. 3, the hollow space within the elements 15, 16 and 17 is then suitably filled with a cement-like material 23 held in place by the metal lath, and tile 24 are then backed against the cement-like structure to provide a composite wall of finished and ornamental appearance.

A spray nozzle 25 projects through one of the walls of the structure to be controlled by suitable valves not forming part of the invention herein and therefore not illustrated. The opening which is framed by the elements 15, 16 and 17 may be suitably closed by a curtain or by a door, these parts also not being illustrated as they do not form parts of my present invention.

My improved water-tight joint is shown most clearly in the sectional view of Fig. 5. The back wall 12 is provided with flanges

26 to which angle plates 27 are preferably secured by means of sheet metal screws 28.

Those angle plates 27 form pockets 29 which are adapted to receive flanges 30 forming part of the side walls 13 and 14. The flanges 30 are adapted to be driven into these pockets so that there is a driving fit between these parts. The side walls 40 have angularly arranged web portions 31 which are united to the flanges 30 by means of the flat portions 32. These flat portions 32 are of such width that blows from a wooden mallet may be struck against them to drive the parts together without, however, injuring the surface or surface finish which may be present upon the inner face of the wall portions 12, 13 and 14. The elimination of a sharp angle at this point also prevents harm to the surface or surface finish due to stresses that may be brought to bear on these parts.

By arranging the metal parts in this manner, I am enabled to transport them in an unassembled condition and yet have their surfaces provided with the necessary finish or coating which it is desirable to display in the finished structure. The absence of a sharp corner between the elements 30 and 31 eliminates the liability to damage the surface or finish. The joint thus formed is watertight for the purposes herein set forth.

These shower bath structures may be mounted side by side so as to form a bank or they may be mounted individually in any suitable manner as by being counter-sunk in the wall of the room as shown for instance in Fig. 3. The wall portions 13 and 14 have suitable flanges 33 back of which the jams 15 and 16 are mounted as shown.

From what has been thus described, the nature of my invention will be readily clear to those skilled in the art and it will also be apparent that many modifications may be made thereof without departing from the spirit of my invention.

Having, however, described one form which my invention may take, what I desire to secure by Letters Patent of the United States is:

1. A compartment structure for shower baths and the like having two wall portions meeting at an angle said wall portions consisting of metal plates, one of said plates having a pocket formed thereon adjacent the apex of and within the angle between the two plates; the other of said plates having a sealing portion extending across the corner between the plates and concealing the pocket from the interior of the compartment and having a flange extending into said pocket and held by the pocket walls.

2. A compartment structure for shower baths and the like having two walls portions meeting at an angle said wall portions consisting of metal plates, one of said plates having a pocket formed thereon adjacent the apex of and within the angle between the two plates; the other of said plates having a sealing portion extending across the corner between the plates and concealing the pocket from the interior of the compartment and having a flange extending into said pocket and held by the pocket walls; said flange having a shoulder thereon extending substantially at right angles to said flange whereby to form a flat surface against which pressure can be applied to force the flange into the pocket.

3. A compartment structure for shower baths and the like having two wall portions meeting at an angle said wall portions consisting of metal plates, one of said plates having a pocket formed thereon adjacent the apex of and within the angle between the two plates, the other of said plates having a sealing portion extending across the corner between the plates and concealing the pocket from the interior of the compartment and having a flange extending into said pocket and held by the pocket wall said pocket carrying plate having a flange at the corner of the angle extending substantially in the direction of the other plate whereby to substantially enclose the pocket structure from the exterior of the compartment.

In witness whereof, I hereunto subscribe my name this 14th day of March, A. D. 1928.

GUSTAF ALBIN NILSON.