March 7, 1933. E. F. NIEDECKEN 1,900,658

SHOWER STALL

Filed March 11, 1931

Fig. 1

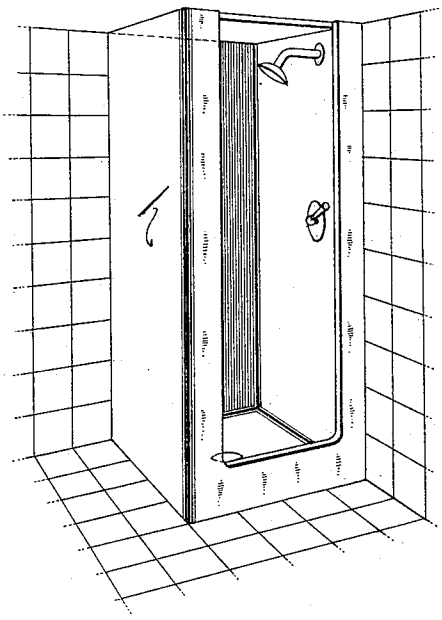


Fig. 2

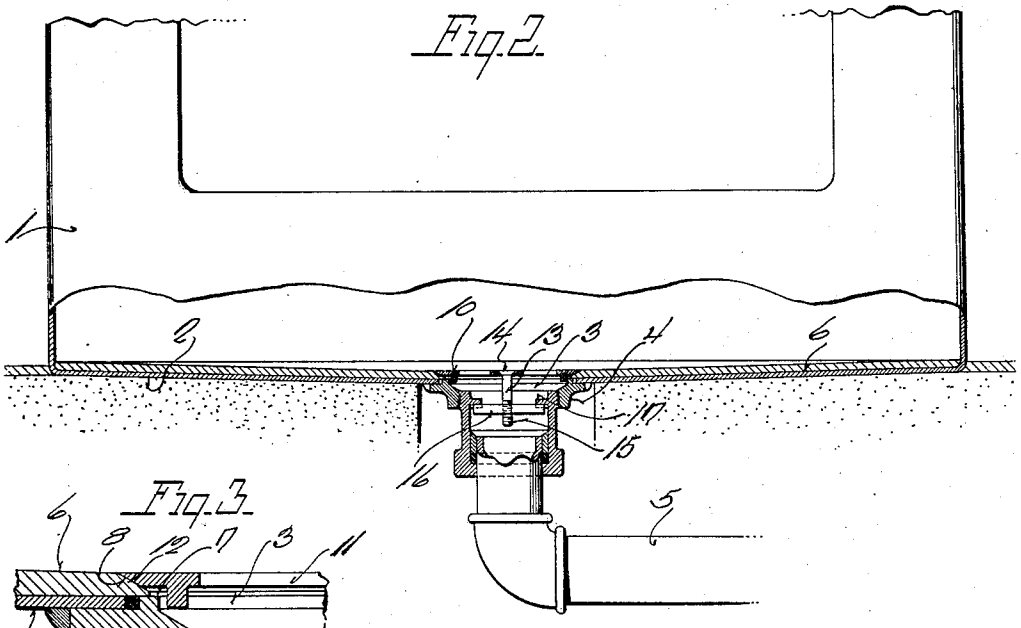
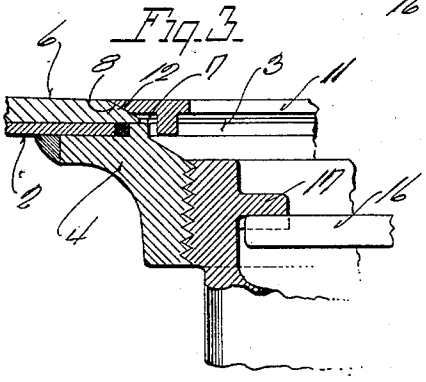


Fig. 3



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Patented Mar. 7, 1933 1,900,658

UNITED STATES PATENT OFFICE

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SHOWER STALL

Application filed March 11, 1931. Serial No. 521,679.

This invention relates in general to shower stalls and more particularly to a covering for the bottom or floor of an all metal shower stall and to a means for securing the covering in position.

Under many circumstances, it is highly desirable to employ in connection with shower baths an all metal shower stall. However, it is more or less disagreeable and undesirable for other reasons to stand on the metal bottoms of these stalls when taking a bath.

The present invention proposes a covering which may be in the form of asphalt tile and which is cemented to the metallic bottom of the stall. The tile are united together and to the extreme lower end portion of the vertical walls of the stall by an asphalt composition. At least one of the asphalt tiles has an outlet opening formed therewith which registers with the outlet opening of the drain connection of the stall. To supplement the action of the cement and insure the retention of the tile around the margin of the outlet opening in proper position, a perforated disc, which also functions as a strainer, is provided and has its periphery overlapping the tile around the margin of the outlet opening. Preferably, the underside of the margin of the disc is beveled and the tile around the margin of the outlet opening is corresponding formed so that the disc is flush with the surface of the tile. The disc is held in position by means of a screw which has its head engaged with and countersunk in the center of the disc and which has its shank threaded through a cross bar or spider provided in the drain connection.

Other objects and advantages reside in certain novel features of the construction, arrangement and combination of parts which will be hereinafter more fully described and particularly pointed out in the appended claim, reference being had to the accompanying drawing, forming a part of this specification, and in which:

Figure 1 is a perspective view showing the type of shower stalls in which the present invention is embodied;

Figure 2 is a view partly in transverse vertical section and partly in side elevation and illustrating the bottom of the shower stall equipped with a covering and securing means therefor embodying the present invention; and

Figure 3 is a fragmentary view on an enlarged scale showing the structure of the securing means at the outlet opening.

Referring to the drawing, the numeral 1 designates an all metal shower stall having the usual metallic bottom 2, provided at its center with an outlet opening 3. The outlet opening 3 is equipped with a drain fitting 4 which connects up with the drain pipe 5.

A covering is provided for the bottom 2 of the stall and, although shown in the drawing, for purposes of simplicity in illustration, as a continuous structure, preferably consists of asphalt tile, the tiles being cemented to each other, to the bottom wall 2 and to the extreme lower end portions of the vertical walls of the stall. At least one of the tiles is formed with an outlet opening 7 which registers with the outlet opening 3 and the wall of this outlet opening has at least a portion tapered or beveled as indicated at 8. For securing the tile or tiles surrounding the outlet of the stall firmly against the bottom a disc 10 is provided, the disc being slotted or perforated as at 11 so as to function also as a strainer and having a beveled periphery 12 which flatly engages the beveled portion of the outlet opening 7 whereby to dispose the top of the disc flush with the top of the covering 6. For securing the disc 10 in position, a screw is utilized and has its head 14 countersunk in an opening provided at the center of the disc and has its shank 15 threaded through an opening provided therefor in a transverse bar or spider 16 which may be engaged with inwardly directed notched lugs 17 integrally formed with opposed portions of a wall of the outlet fitting 4.

With a construction of this nature, the bottom of the stall is far more comfortable and far better adapted for its purposes and the covering is securely held in position. Ingress of water between the covering and the stall is effectively prevented at all points and even at the outlet opening where it is most liable to occur. By utilizing the screw for

holding down the disc the disc may be tightly and rigidly secured in position without causing it to rotate and roughen up the tile.

The invention claimed is:

In a metallic shower stall including a bottom and having an outlet opening therein provided with a drain connection secured therearound, said connection forming with the floor a substantially plane surface, an asphalt tile covering for the floor of the stall, at least one of the asphalt tiles of the covering having a beveled outlet opening lying above and registering with the outlet opening of the stall, a rigid perforated plate having a beveled marginal edge and having its upper surface lying in or below the main plane of the asphalt tilte covering in the region of the outlet openings, with the beveled periphery of the plate overlapping the beveled marginal portion of the asphalt tile around its outlet opening, and cooperable means between the plate and the drain connection for forcing the plate into clamping engagement with said marginal portion of the asphalt tile to exert downward and lateral pressure on the marginal beveled edge of said tile for preventing passage of water between the tile and perforated plate.

In witness whereof, I hereto affix my signature.

EDWARD F. NIEDECKEN.