Oct. 25, 1927.

H. E. DECKER

1,646,994

DRAIN DEVICE

Filed Oct. 13, 1921

2 Sheets-Sheet 1

Fig. 1.

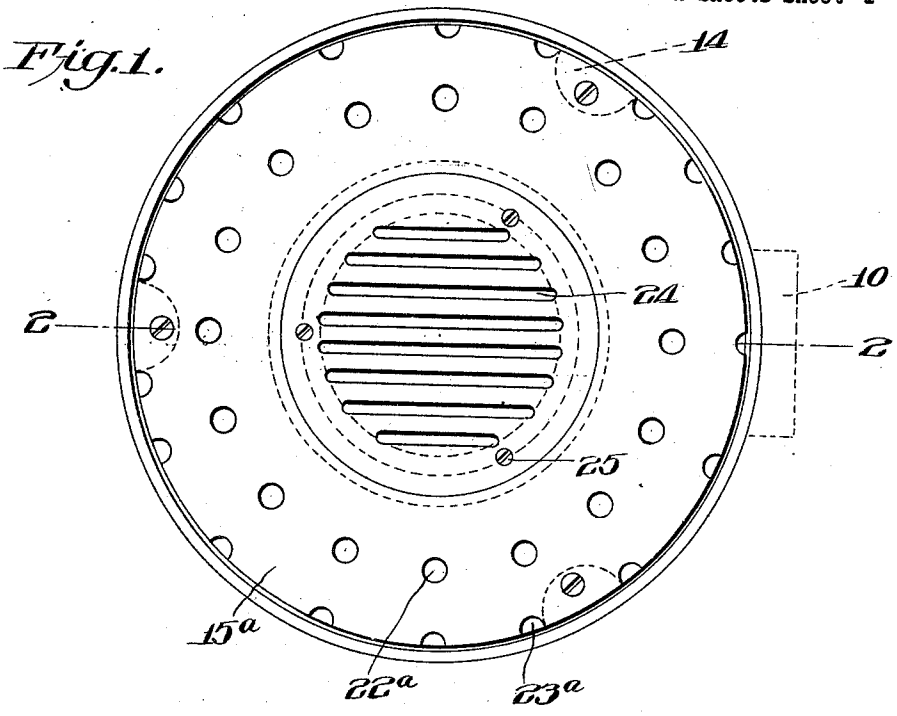
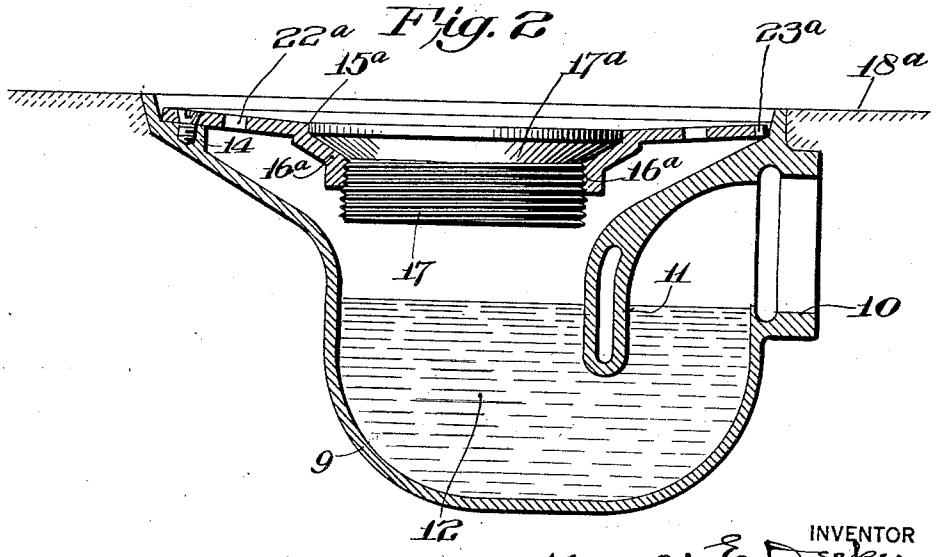


Fig. 2



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Fig. 4.

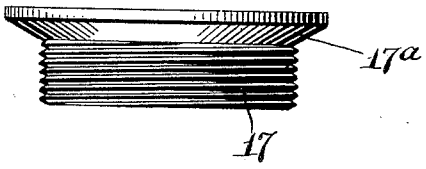


Fig. 5.

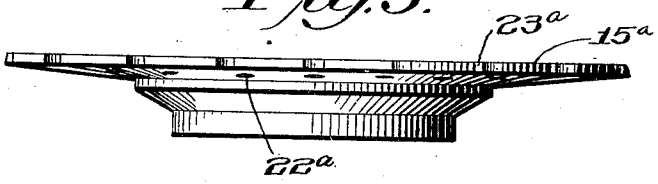


Fig. 6.

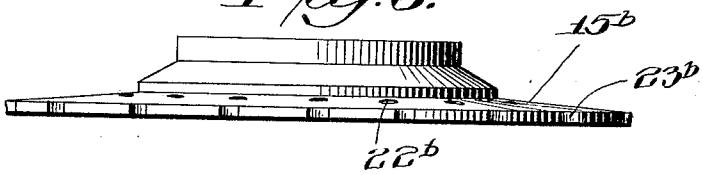
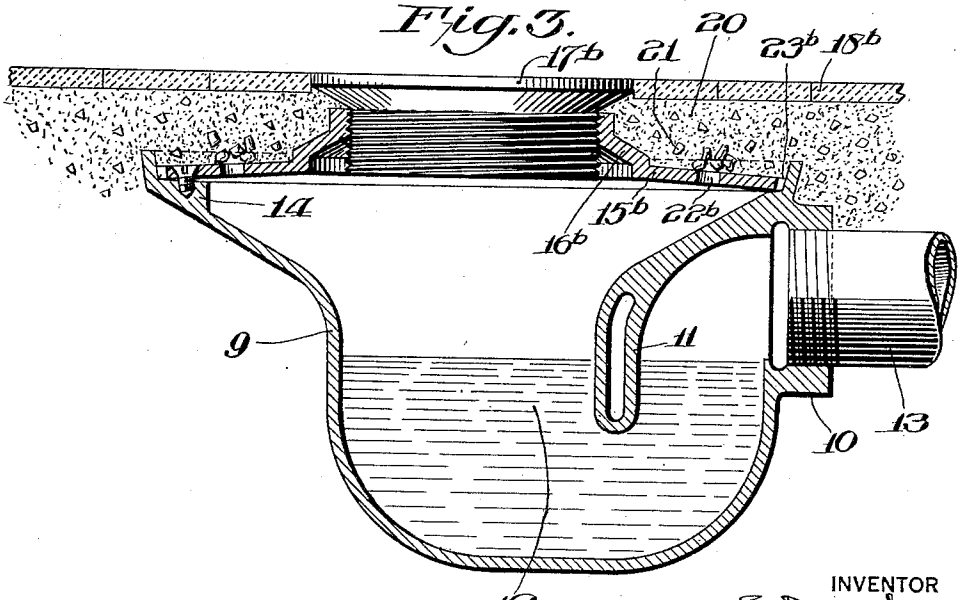


Fig. 3.



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UNITED STATES PATENT OFFICE.

HAROLD E. DECKER, OF ALLENTOWN, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JOHN G. FLECK, OF BALA, PENNSYLVANIA.

DRAIN DEVICE.

Application filed October 13, 1921. Serial No. 507,544.

My invention relates to improvements in drains. It has for its object certain improvements in construction and means whereby through a different arrangement of parts a single drain or receptacle may be employed for uses ordinarily requiring devices of entirely different form.

Referring to the drawings:

Fig. 1 is a plan view of an improved form of drain or trap.

Fig. 2 is a section on 2—2 of Fig. 1, comprising a combined floor drain and trap.

Fig. 3 is a similar section to Fig. 2, but with the strainer plate in the reversed or higher position and the device adapted for use as a combined shower drain and trap.

Fig. 4 is an elevation of the adjustable inlet.

Fig. 5 is an elevation of the strainer plate in the position shown in Fig. 2.

Fig. 6 is an elevation of the strainer plate in the position shown in Fig. 3.

Similar numerals refer to similar parts throughout the several views.

In the construction of tiled and similar floors for shower baths and the like, difficulty has been found in preserving a perfectly tight connection between the floor and the drain, with the result that there is a seepage of the water through the floor on the outside of the trap. My invention comprises an improved form of drain or trap specially designed to carry away this seepage and adapted, by a mere reversal of the strainer plate to serve if desired as a cellar drain or trap or device for similar use where escape of the seepage is unimportant, and a larger drainage surface may be obtained without objection.

The main body of the trap is indicated by the numeral 9 and comprises a chambered body flaring at the top and provided with the outlet 10. Partition 11 depends from a point near the top of the trap to below the level of outlet 10 and forms a water seal 12 between drain pipe 13 secured in outlet 10 and the house.

Slightly below the top of bowl 9 there are provided the lugs 14 forming seats for the strainer plate which I have indicated in Fig. 2 by the reference character 15^a and in Fig. 3 by 15^b, and which may be screwed or otherwise suitably secured to its seats.

It will be understood that my combined floor drain and trap shown in Fig. 2 may be set substantially flush with the floor 18^a, the strainer having a slight fall toward its center as shown in Fig. 2 to insure the flow of the water into the trap either through apertures 22^a, marginal recesses 23^a or the barred inlet 17^a threaded at 17 into neck or restricted portion 16^a of the strainer plate.

To use my device as a combined shower drain and trap as shown in Fig. 3 it is merely necessary to turn the strainer plate 15^b over from the position shown in Figs. 2 and 5 to the positions shown in Figs. 3 and 6 and to insert inlet 17^b into the now upper face of the strainer plate. In this use of my device a body of mixed sand and cement 20 and broken stone 21 in a moistened state may be filled in upon the device as shown in Fig. 3 and a layer of tile 18^b superimposed upon the same and fitted up against the threaded inlet 17^b which may be adjusted in strainer neck 16^b to lie substantially flush with the top of the floor.

It will be clear that any seepage will be caught upon the strainer plate and will pass into trap 9 either through apertures 22^b or marginal recesses 23^b at the lower edge of the strainer plate in the gutter formed by the same and upper extension of the trap body.

Portion 24 of the strainer element 17^a or 17^b is held in position by screws 25 and may be readily removed to permit of access to the interior of the trap. It will also be understood that the parts are simple and easy of construction and that the flaring top of chambered body or bowl 9 and the superimposed strainer afford a maximum of surface to receive any water outside the body of the trap.

I claim:

1. A drain device comprising a chambered body having inlet and outlet openings therein and of relatively wide dimension at its inlet side, a reversible plate supported by the chambered body and having an opening thereto, said plate inclining downwardly to-

ward said opening, and a chambered plug.

2. A drain device comprising a chambered body, a reversible plate provided with a drain inlet therethrough and a strainer in said plate having adjustable engagement therewith.

3. A drain device comprising a chambered body, a reversible plate having a drain inlet therethrough, a portion of said plate projecting away from an adjacent portion thereof to form the drain inlet, and a cooperating strainer having a threaded relationship with said plate.

HAROLD E. DECKER.