Jan. 8, 1963 B. SEEWACK 3,071,781

DRAIN FOR PLUMBING

Filed May 4, 1959

Fig. 1

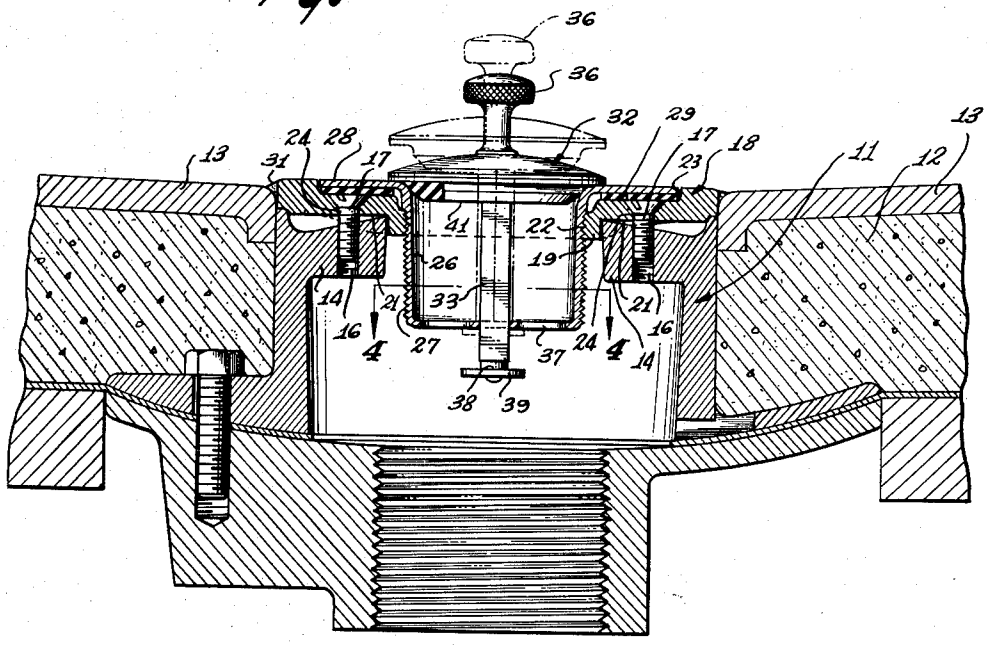


Fig. 2

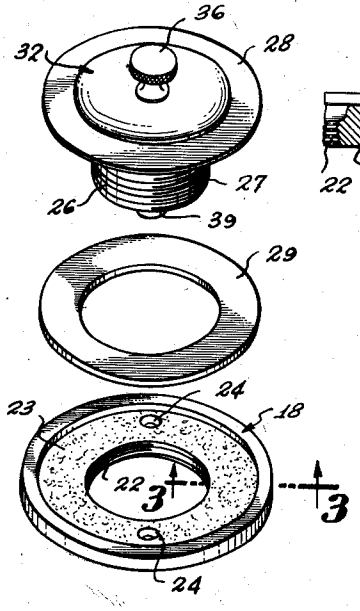


Fig. 3

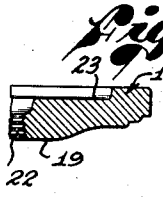
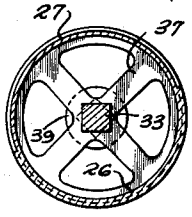


Fig. 4



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DRAIN FOR PLUMBING

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This invention relates to drains, and particularly to drains for a Roman style bath tub.

In most localities, building ordinances require that the rough-in plumbing for Roman style bath tubs be generally of the same type as is used in connection with showers. This type fitting, however, is generally designed and adapted to receive a grating rather than a plug. It is accordingly an object of this invention to provide a drain of the shower type which may be stoppered to prevent drainage of water, thereby enabling the drain to be used in Roman style bath tubs.

It is a further object of this invention to provide a drain of the above type which is adapted to be applied to shower type rough plumbing without any reworking or modification of the rough plumbing.

In accordance with these and other objects which will become apparent hereinafter, a preferred form of the present invention will now be described with reference to the accompanying drawing wherein:

FIG. 1 is a cross-sectional elevation of a drain constructed in accordance with the present invention;

FIG. 2 is an exploded perspective view showing certain elements of the drain;

FIG. 3 is a fragmentary section on line 3—3 in FIG. 2; and

FIG. 4 is a fragmentary cross-section taken on line 3—3 in FIG. 1.

Referring to the drawing, **11** designates a cylindrical drain member firmly imbedded in a concrete base **12**, surfaced with tile **13** and forming the bottom of a Roman style tub. Extending inwardly from the cylinder **11** are a pair of bosses **14** which are bored and threaded vertically, as shown at **16**, to receive screws **17** which hold in place an annular ring **18**. The ring **18** is made of corrosion-resistant metal, such as stainless steel, and the central portion adjacent the inner circumference of the ring is depressed as shown at **19**. As seen in FIG. 3, the depressed inner portion **19** extends below the upper surface of the bosses **14**, but recessed flats **21** are provided on the under side of the ring to accommodate the bosses.

The inner circumference **22** of the ring **18** is disposed within the bosses **14** and below the upper surface thereof. Immediately outward of the inner circumference **22**, the upper surface of the ring **18** is depressed as shown at **23**, and in this depressed portion are a pair of bores **24** aligned with the threaded or tapped bores **16** in the bosses **14**. Through these bores **24** pass the securing screws **17**, holding the ring **18** firmly down across the face of the cylindrical drain member **11**.

The inner circumference **22** of the ring **18** is selectively stoppered by a plug means comprising, in the preferred embodiment, a cylindrical casing **26** which is seated within the inner circumference **22** and held in place by external threads **27** mating with internal threads formed on the inner circumference **22**. Formed integral with the cylinder **26** is an outwardly extending annular flange **28** which overlies and nests within the depressed portion **23**, a pliant gasket **29** being interposed between the flange **28** and the ring **18** in order to prevent leakage of water. Water leakage between the outer circumference of the ring **18** and the tile **13** may be blocked by suitable caulking **31**. The cylindrical casing **26** is selectively closed and opened by a cap means **32**, from which depends a square guide rod **33**, the upper end of which is threaded

and passes through a central hole in the cap **32** to receive threaded thereover a knob **36** for lifting the cap **32** and opening the drain. The guide rod **33** slides back and forth in a square opening formed in the center of a spider **37**, the tip end of the rod being provided with a circular groove **38** and terminated by a larger washer **39**. Thus, when the assembly, including the cap **32**, is lifted to its maximum extent, the guide rod **33** may be rotated through approximately 45°, so that the corners of the guide rod rest on the spider **37**, holding the cap **32** upward and the drain open.

The under surface of the cap **32** is provided with a pliant face **41** which seals against the upper edge of the casing **26** where it turns outwardly into the flange **28**.

It will be seen that by means of the present invention the rough-in drain member **11**, conventionally used to accommodate a shower grating, is readily adapted to accommodate a plug-type drain, such as is used in Roman tubs, without any alteration in the basic rough-in installation.

While the instant invention has been shown and described herein in what is conceived to be the most practical and preferred embodiment, it is recognized that departures may be made therefrom within the scope of the invention which is therefore not to be limited to the details disclosed herein but is to be afforded the full scope of the claims.

What is claimed is:

1. A drain particularly adapted for use in a Roman style tub comprising in combination: a generally cylindrical drain member having inwardly directed vertically bored and threaded boss means; an annular ring of corrosion resistant metal assembled in a position overlying the upper edges of said drain member and supported thereby, the inner circumference of said ring being substantially concentric with said cylindrical drain member and spaced within said boss means; bores in said ring aligned with said boss bores, and means attaching the ring to the said boss means; and plug means including a cylindrical casing having a central bore therethrough, said cylindrical casing extending downwardly within the inner circumference of said ring and threadedly secured in position therein, said plug means including a stopper plug movably mounted on said casing and closing the upper end of said bore.

2. A drain particularly adapted for use in a Roman style tub comprising in combination: a generally cylindrical drain member having inwardly directed vertically bored and threaded boss means; an annular ring of corrosion resistant metal assembled in a position overlying the upper edges of said drain member and supported thereby, the inner circumference of said ring being substantially concentric with said cylindrical drain member and spaced within said boss means, bores in said ring aligned with said boss bores, and means securing said ring to said boss means; means including a plug having engagement with said inner circumference of said ring and serving as a stopper for said drain, said inner circumference having a portion extending below the upper surface of said boss means and the under surface of said ring being provided with recessed flats to accommodate said boss means.

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