April 24, 1951 E. W. N. BOOSEY 2,550,401

FLOOR DRAIN

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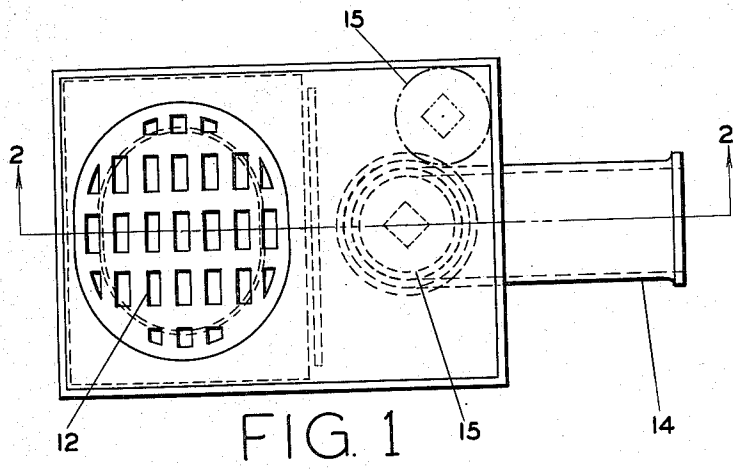


FIG. 1

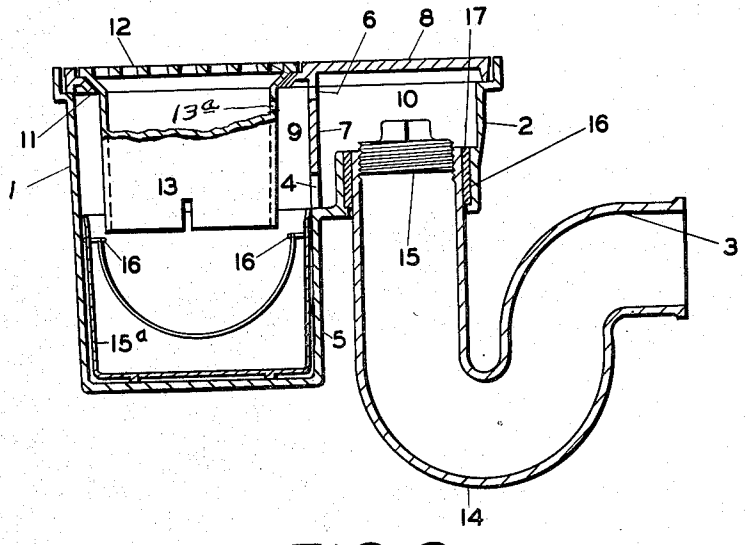


FIG. 2

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FLOOR DRAIN

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3 Claims. (Cl. 210—56)

1

This invention relates to floor drains, the object being to provide a new and improved form of floor drain wherein a drain head has a grating at the floor surface and a skirt extending below the surface which discharges into a basket, the drain head having an extension on one side to which an outlet conduit is connected and a wall between the extension and the chamber in which the basket is positioned, the wall having an upper aperture therein open to the extension, the arrangement preventing discharge of dirt, sand or gravel or like refuse into the drain line connected with the head.

In the drawings:

Fig. 1 is a plan view of my improved drain head.

Fig. 2 is a sectional elevation taken on line 2—2 of Fig. 1.

In its preferred form the body of the drain 1 has an extension 2 on one side thereof of less depth than the said body to which the drain conduit 3 is connected by a conduit of U form the upper vertical end of which opens to the extension 2 terminating above the passage 4 below the wall 7. An additional passage 6 is provided in the upper end of the wall 7. The body 1 has an open upper end and a cover member 8 is provided for the main chamber 9 and the auxiliary chamber 10. The cover member 8 has an opening on one side defined by the downwardly extending flange 11 thereof. A grating 12 is provided at upper end of the downwardly extending tubular member 13 which terminates below the passage 4 leading to the discharge chamber 10 and thus all material discharging through the grating 12 first flows into the basket and then overflows through the passage 4 into the chamber 10 and thence to the outlet trap 14.

The tubular member 13 has an opening 13a near the top to permit water to discharge into the main chamber 9 in the event flow through the tubular member 13 is prevented by accumulating solid matter above the lower end thereof.

The trap has a threaded upper end to receive a plug 15 which is used only to prevent backflow into the chamber 10 and normally occupies the position shown by dotted lines in Fig. 1 or otherwise disposed of. The basket 15a is formed of suitable material, such as sheet metal, and is provided with a bail having end portions 16 extending through apertures provided therefor in the basket as indicated in Fig. 2. By removal of the cover member 8 including the drainage element having the grating 12, the basket may

2

thereafter be removed and the debris in the basket disposed of.

If the water flowing through the grating is in greater volume than will discharge freely through the passage 4 below the wall 7 it will rise in level and pass through the opening 6 to the outlet. The inlet end of the outlet extends upwardly through an aperture in the bottom wall of the extension 2 and into an open ended chamber 10 of greater internal diameter than the external diameter of the inlet end of the trap 14 and is usually caulked in place.

It is believed obvious from the foregoing description and the drawing that the various features and objects of the invention are attained by the character and arrangement of the several parts.

Having thus briefly described my invention, its utility and mode of operation, what I claim and desire to secure by Letters Patent of the United States is:

1. A floor drain comprising a body having an inlet and an outlet chamber, the inlet chamber being of greater depth than the outlet chamber, a cover on said body for said chambers, said cover having a depending wall separating the inlet chamber from the outlet chamber, the lower end of said wall being spaced from said body defining a passage between said chambers, said wall having an aperture therein permitting flow of liquid from the inlet chamber to the outlet chamber, said cover having a circular opening in the portion thereof covering the inlet chamber, said cover having an inwardly and downwardly extending annular flange adjacent said opening, a tubular inlet member having a grating at its upper end and extending downwardly below said passage, said tubular member having a flange overlying said annular flange, the outlet chamber having an opening in its bottom, and an outlet conduit connected with said opening.

2. A floor drain comprising a body having inlet and outlet chambers, a cover on said body for said chambers, said cover having a depending wall separating said chambers, the lower edge of said wall being spaced from said body defining a passage between said chambers permitting the flow of liquid from said inlet chamber to said outlet chamber, said cover having an aperture in the portion thereof covering said inlet chamber, a tubular inlet member having a grating at its upper end supported upon said cover and extending downwardly through said aperture and below said passage, said outlet

chamber having an opening in its bottom, and an outlet conduit connected with said opening.

3. A floor drain comprising a body having inlet and outlet chambers, a cover on said body for said chambers, said cover having a depending wall separating said chambers, the lower edge of said wall being spaced from said body defining a passage between said chambers permitting the flow of liquid from said inlet chamber to said outlet chamber, said cover having an aperture in the portion thereof covering said inlet chamber, a tubular inlet member having a grating at its upper end supported upon said cover and extending downwardly through said aperture and below said passage, said outlet chamber having an opening in its bottom, an outlet conduit connected with said opening, and a removable debris basket upon the bottom of said inlet chamber below said tubular inlet member.

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