

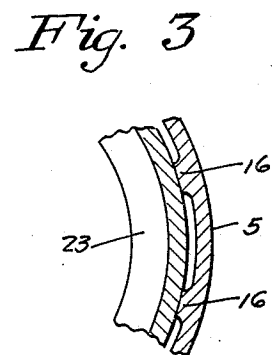
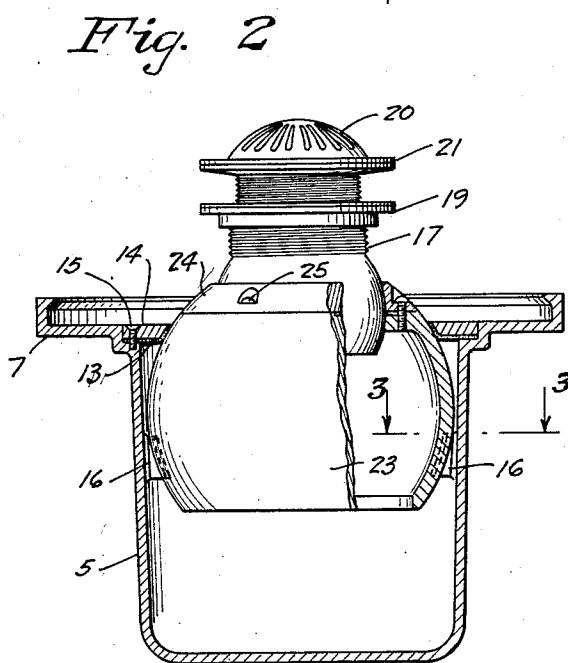
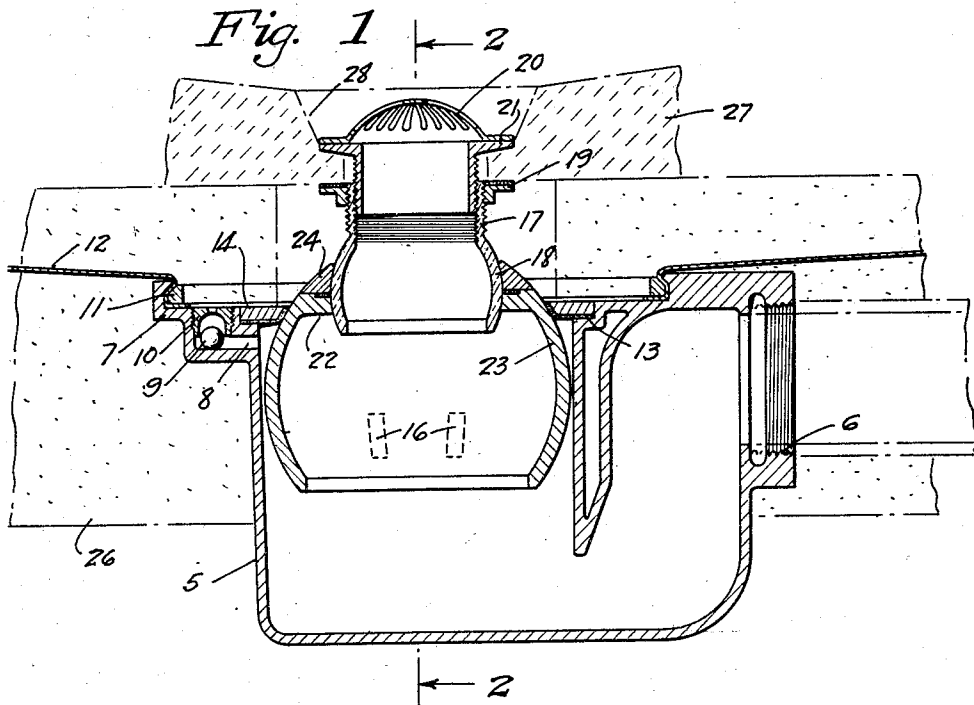
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A. HESS

1,779,936

ADJUSTABLE FLOOR DRAIN

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UNITED STATES PATENT OFFICE

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ADJUSTABLE FLOOR DRAIN

Application filed October 26, 1925. Serial No. 64,817.

This invention relates to a drain suitable for disposition in a floor or other similar location. It is now common practice to fix the body of a drain in a building structure such that adjustment of the drain inlet laterally cannot be effected after installation. Such drains are commonly formed of a body having a basin or shield to collect seepage and a head having perforations for the passage of the liquid to be drained. The body is suitable for embedding in cement and thereby becomes fixed in position. Where such drains are to be registered with other after installed fixtures, adjustment of the location of the head along the surface of the floor or wall is desirable. The present invention has for its primary object the provision of a drain having a head which may be adjusted in all directions laterally of the axis of the drain. These objects together with other objects and corresponding accomplishments are obtained by means of the embodiment of my invention illustrated in the accompanying drawing, in which:

Fig. 1 is a vertical section through a drain installed in a floor; Fig. 2 is a section as seen on the line 2—2 of Fig. 1, parts being shown in elevation and broken away to better illustrate the invention; and Fig. 3 is a section as seen on the line 3—3 of Fig. 2, on an enlarged scale showing a fragment of the structure.

Referring more particularly to the drawing, a trap basin indicated by 5 is provided with a leg 6 to which a drain pipe may be connected. A pan or shield 7 projects from the basin and is provided for the purpose of receiving seepage from around the head and delivering it to the chamber of the basin. A port 8 connects the pan with the body of the basin and is controlled by a check valve 9 mounted within a suitable cage secured in the pan.

It will be noted that the ball of the check is in such a position as to permit the flow of liquid from the pan into the basin but to prevent back flow, as the ball will seat in its cage 10, thereby closing the inlet port. The flange of the pan is undercut to receive a flashing ring 11, whereby a flashing 12 may

be secured thereto. An annular recess 13 is formed at the opening of the basin and seated therein is a holding ring 14 which may be secured in position by suitable screws 15. Extending inwardly from the wall of the basin are lugs 16 arranged to engage a ball foot later described.

The head comprises a tubular section 17 internally and externally threaded and ending in a ball shell 18. Mounted upon the tubular section is a flange ring 19 so that it may be vertically adjusted. Mounted within the tubular portion so as to be vertically adjustable is a head member having a perforate dome inlet 20 through which liquid to be drained may pass. It is also provided with a ring 21 extending therefrom. The construction is such as to permit the vertical adjustment of the inlet 20. The ball shell 18 is seated in a socket flange 22 in ball foot 23. Holding the shell in position is a holding ring 24. Holding ring 24 is secured to the base 23 by means of screws 25.

In Fig. 1, the drain is shown embedded in cement indicated by 26. The floor of a urinal is indicated by 27 and is provided with a drain opening 28, in which the drain head should set. The foot 23 may be turned in the basin so as to dispose the drain head at any desired position. Rocking of the foot may not dispose the tubular portion of the head in an upright or vertical position. The ball and socket connection of the head with the foot permits the head to be turned to an upright position. An adjustment is thus provided whereby the drain inlet opening may be adjusted laterally of the basin and maintained in an upright position. The threaded connection between the tubular portions of the head permits a vertical adjustment.

What I claim is:

1. A drain comprising a body adapted to be connected to a drain pipe, a ball foot, said body being arranged to receive said foot and form a ball and socket connection, a head having a ball base, said foot being arranged to receive said base to form a ball and socket connection.

2. A drain comprising a basin, the chamber of said basin being adapted to be connected

to a drain pipe and forming a ball socket, a head having a ball foot mounted in said socket to provide a ball and socket connection within said basin, with the inlet of said head
5 projecting from said basin and adjustable in every direction laterally of the axis of said basin, and means to adjust the vertical height of said head.

3. A drain comprising a body having a
10 chamber adapted to be connected to a drain pipe and forming a ball socket, a head having a ball foot disposed in said socket so as to form a ball and socket joint connection whereby to provide a universal connection so that
15 the inlet of said head may be adjustably positioned laterally, said chamber having a lateral flange for mounting on a supporting structure, and said head having a lateral flange for mounting on said supporting
20 structure.

4. A drain comprising a body having a chamber adapted to be connected to a drain pipe and forming a ball socket, a head having a ball foot mounted in said socket to form a
25 ball and socket connection therewith whereby a universal connection is formed so that the inlet in said head may be adjustably positioned laterally, a lateral flange on said body for mounting on a supporting structure, universal joint means between the inlet of said
30 head and said ball foot to enable the inlet of said head to be maintained in an upright position.

In witness that I claim the foregoing I
35 have hereunto subscribed my name this 12th day of October, 1925.

ARTHUR HESS.

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