Feb. 17, 1925. 1,526,637

A. HESS

DRAIN

Filed Nov. 26, 1923

Fig. 1

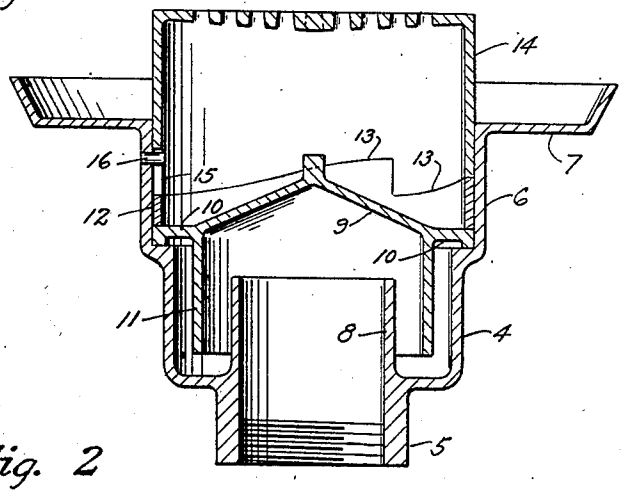


Fig. 2

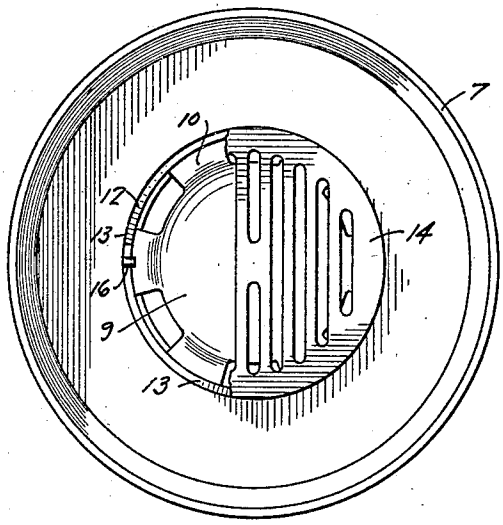
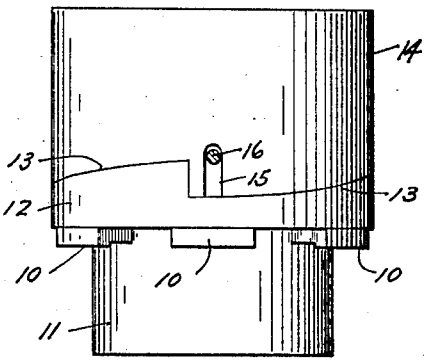


Fig. 3



INVENTOR.

Arthur Hess

BY Westall and Wallace

ATTORNEYS

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UNITED STATES PATENT OFFICE.

ARTHUR HESS, OF LOS ANGELES, CALIFORNIA, ASSIGNOR OF ONE-HALF TO SAMUEL L. MARSH, OF LOS ANGELES, CALIFORNIA.

DRAIN.

Application filed November 26, 1923. Serial No. 677,012.

To all whom it may concern:

Be it known that I, ARTHUR HESS, a citizen of the United States, and resident of Los Angeles, in the county of Los Angeles, State of California, have invented new and useful Improvements in a Drain, of which the following is a specification.

This invention relates to a drain which is provided with a body adapted to be embedded in a floor or the like and having a detachable strainer head.

In the installation of drains for floors, roofs, and the like, it is common practice to embed the drain in the structure with the upper perforate surface flush with the surface to be drained. Due to the variety of thicknesses of the walls of the structure to be drained, a drain having a fixed distance between the top and bottom thereof is not readily accommodated to a structure.

It is the primary object of this invention to provide a novel type of structure having a detachable strainer head with means to adjust the height thereof. It is another object of this invention to provide a drain having an outstanding waste pan for catching fluids seeping about the peripheral wall of the drain with a detachable head which may be removed for cleaning.

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 an axial section through a drain made in accordance with my invention; Fig. 2 is a plan view with a portion of the strainer head broken away to better illustrate the structure; and Fig. 3 shows the strainer head, adjusting ring and a trap bell in assembled relation.

Referring more particularly to the drawing, the body of the drain is of cup form and is indicated by 4, and, in the form shown herein is provided with a trap. The lower end of the body which is cylindrical has an internally threaded nipple 5. The upper portion is enlarged as indicated by 6 to provide an internal shoulder for a purpose later described. Extending outwardly from the top of the body is a waste pan 7. Extending upwardly into the body is a tubular shell 8 serving as a wall of the trap.

A hood 9 is provided with arms 10 for resting upon the shoulder of the body and supporting the hood, there being a skirt 11 depending therefrom and falling short of the bottom of the body. This skirt is spaced from and encircles the shell 8. The body 4, skirt 11, and shell 8 form a trap, liquid entering between the skirt and wall.

Mounted in the enlarged portion of the body is an adjusting ring 12. The upper surface is provided with a number of inclined ways indicated by 13 and serving as a support for a detachable strainer head. The latter has a cylindrical wall 14 with ways at the bottom thereof corresponding to the inclination on the adjusting ring. In addition thereto it is provided with a vertical slot 15 to receive a pin 16 mounted in the body, the latter preventing turning of the body.

The top of the strainer head is perforate and is intended to be set flush with the floor or surface to be drained. It is obvious that by turning the ring 12, the head may be raised or lowered as indicated by the dotted line in Fig. 3. The body with the strainer head is embedded in the floor which may be of concrete plastic material of any kind or of wood. To insure the top of the head being flush with the floor, the ring 13 is turned to bring the top of the head to the proper level. Water which may seep about the strainer head will enter the pan 7 and the may ooze between the portion 6 of the body and the strainer head into the strainer itself. At any time that the passages become clogged, the head may be removed by lifting the same. In order to provide for easy removal, the wall 14 of the head may be made tapering with the larger diameter at the outer end. This taper may only be a slight amount. Drains of this character are commonly embedded in cement, ceilings, or floors and the cement may close the drain opening from the pan 7, that is, the clearance space between the head and the body. By making the head removable it may be detached and these places cleaned so as to permit the operation of the same.

I have shown the body as equipped with a trap. This trap forms no part of the present invention and the structure may be built without the trap and still be within the scope of my invention.

What I claim is:

1. A drain adapted to be embedded in a floor comprising a body having a cylindrical

basin provided with an internal ledge and arranged for connection to a drainage outlet, a pan outstanding from said body; and a strainer head structure comprising an adjustment ring disposed within said basin and resting upon said ledge, the upper edge of said ring having indentations, and a tubular body forming a slip joint with the basin body and having its lower edge provided with indentations corresponding to the indentations on said ring, said strainer head structure having a flat grating at the top adapted to be disposed flush with the floor surface.

2. A drain comprising a body adapted to be connected to a drain outlet, a pan outstanding from said body, an adjustment ring having inclined ways mounted on said body over said inlet, a strainer head of cup form having an edge corresponding to said ways and resting thereon whereby to adjust the height of said head.

3. A drain comprising a body of cup form adapted to be connected to an outlet, a pan outstanding from said body at the top thereof, an adjustment ring having inclined ways mounted on said body over said inlet, a strainer head of cup form having an edge corresponding to said ways and resting thereon whereby to adjust the height of said head.

4. A drain comprising a body of cup form adapted to be connected to a drainage outlet, a pan outstanding from said body at the top thereof, an adjustment ring disposed within said body and having inclined ways, a strainer head of cup form having an edge corresponding to said way and resting on the ring whereby to adjust the heiglit of said head.

In witness that I claim the foregoing I have hereunto subscribed my name this 19th day of November, 1923.

ARTHUR HESS.