Nov. 26, 1940. W. G. BURR 2,222,807

DRAIN

Filed March 11, 1939

Fig. 1.

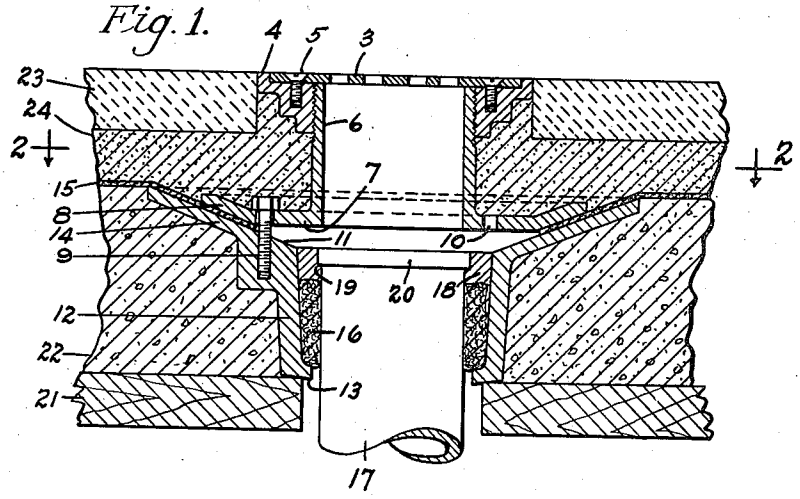
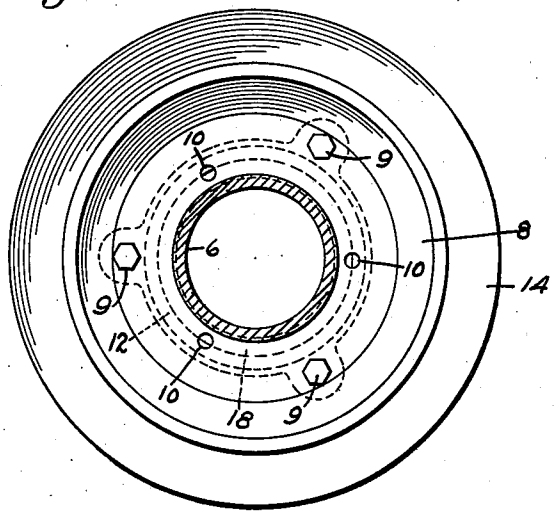


Fig. 2.



INVENTOR.
William G. Burr
BY Carlos G. Stratton
ATTORNEY.

Patented Nov. 26, 1940 2,222,807

UNITED STATES PATENT OFFICE

2,222,807

DRAIN

William G. Burr, Pasadena, Calif., assignor, by mesne assignments, to Pacific Cast Iron Fitting Co., Los Angeles, Calif., a corporation of California

Application March 11, 1939, Serial No. 261,206

2 Claims. (Cl. 182—31)

My invention relates to a drain. An important object of the invention is to provide means for maintaining a flashing sheet or pan in position, without such means bending same.

Another object is to provide novel means for providing a liquid proof connection between a basin member comprised in the drain and a drain pipe.

The invention also comprises novel details of construction and novel combinations and arrangements of parts, which will more fully appear in the course of the following description.

In the drawing, like reference characters designate similar parts in the several views.

Figure 1 is a vertical section illustrating an embodiment of my invention.

Figure 2 is a section taken on the line 2—2, but with the flashing sheet or pan and surrounding materials removed.

Referring more in detail to the drawing, the reference numeral 3 designates a perforated drain which is fastened in a countersunk sleeve 4 by bolts 5. A nipple 6 is screwed into the sleeve 4.

The nipple 6 has an integral, normally horizontal portion 7 and an upwardly and outwardly inclined clamping flange 8. The normally horizontal portion 7 is apertured for the reception of bolts 9 and has openings 10 for draining any accumulation of seepage above the clamping flange.

A collar member 12 of a basin member 11 is tapered interiorly and terminates in a lip 13 at its lower extremity. The upper portion of the collar 12 has an upwardly and outwardly extending flange 14 which is substantially parallel with the upwardly inclined portion of the flange 8.

A flashing sheet or pan 15 of lead, tar paper, or other suitable material is clamped between the inclined, parallel flanges. It will be noticed that the flange 14 maintains the same angle of inclination to its edge, so that the flashing sheet or pan is not bent in that portion which engages either flange.

Packing 16 is disposed between the collar 12 and a drain pipe 17. A gland 18 having a shoulder 19 rests upon the packing, while the shoulder 19 supports an integral ring 20 on the pipe 17.

The drain heretofore described is embedded in suitable materials. Those shown comprise a wooden support 21, upon which is mounted a cement base 22; both are below the flashing sheet or pan 15. Above same are tile 23 embedded in sand 24 that contains a cementitious binder.

In the use of the present invention it will be noted that the drain is embedded in suitable material. The nipple 6 connects the drain 3 with the basin member 11, while the flashing sheet or pan prevents seepage of waste to the concrete base 22, by deflecting such seepage to the drain openings 10.

The arrangement of the flanges 8 and 14 prevent the portion of the flashing sheet or pan engaging such flanges from being bent. In practice the packing 16 maintains the drain pipe 17 in fluid tight connection with the collar 12.

While I have illustrated and described what I now regard as the preferred embodiment of my invention, the construction is, of course, subject to modifications without departing from the spirit and scope of my invention. I, therefore, do not wish to restrict myself to the particular form of construction illustrated and described, but desire to avail myself of all modifications which may fall within the scope of the appended claims.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A drain comprising a basin member having a depending collar member for connection with a drain pipe, an upwardly and outwardly inclined flange on the collar member, a perforated drain, a nipple providing a conduit from the drain to the basin member, a flange on the nipple having a normally horizontal portion of greater diameter than the inner diameter of the collar flange and spaced from the basin member, the said nipple flange having an outer upwardly and outwardly inclined portion of less than the outside diameter of the collar flange, and seating in substantially parallel relation upon the median portion of the inclined collar flange inwardly beyond, and spaced from, the outer edge of the latter, a pan between the collar flange and the inclined portion of the nipple flange, and bolts resiliently connecting the normally horizontal portion of the nipple flange with the basin member and spanning the space therebetween, whereby to clamp the pan in position.

2. A drain comprising a basin member having a depending collar member for connection with a drain pipe, an upwardly and outwardly inclined flange on the collar member, a perforated drain, a nipple providing a conduit from the drain to the basin member, a flange on the nipple having a normally horizontal portion of greater diameter than the inner diameter of the collar flange and spaced from the basin member, the said nipple flange having an outer upwardly and outwardly inclined portion of less than the outside diameter of the collar flange and seating in substantially parallel relation upon the median portion of the

inclined collar flange inwardly beyond, and spaced from, the outer edge of the latter, a pan between the collar flange and the inclined portion of the nipple flange, and bolts resiliently connecting the normally horizontal portion of the nipple flange with the basin member and spanning the space therebetween, whereby to clamp the pan in position, the flange of the nipple and its upwardly inclined portion forming a trough around the nipple and having vertical drain apertures opening into the space between the nipple flange and the collar member.

WILLIAM G. BURR.