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RESERVATORY SUPPORTING DEVICE

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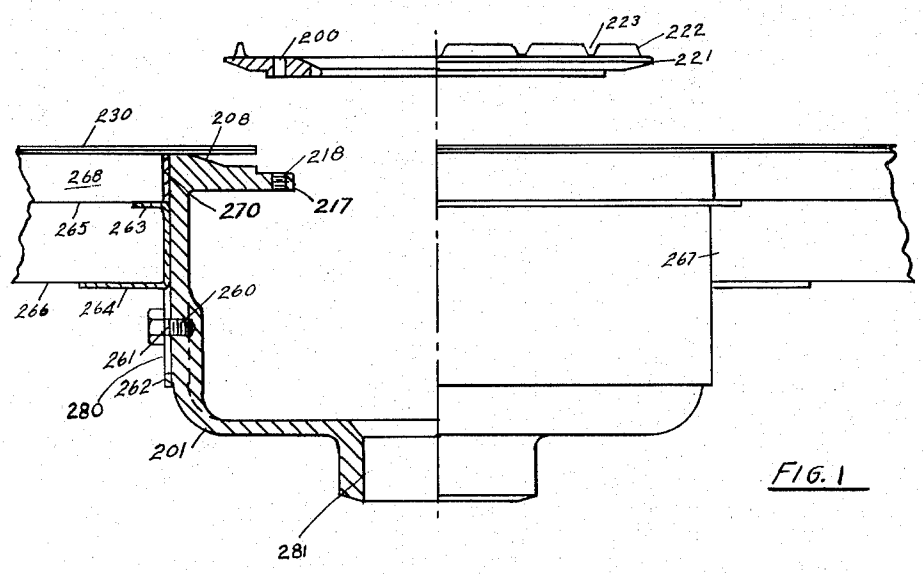


FIG. 1

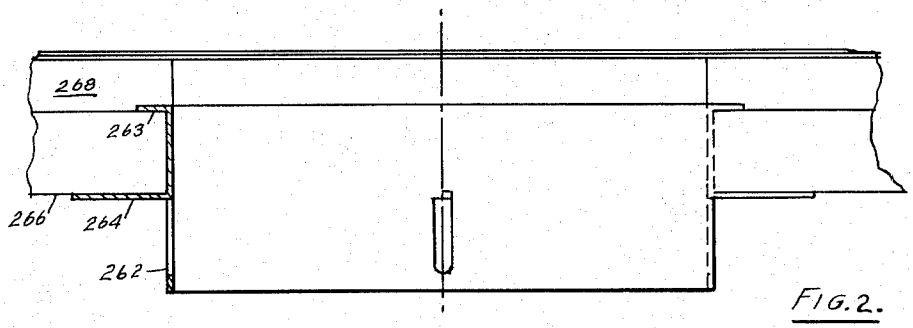


FIG. 2.

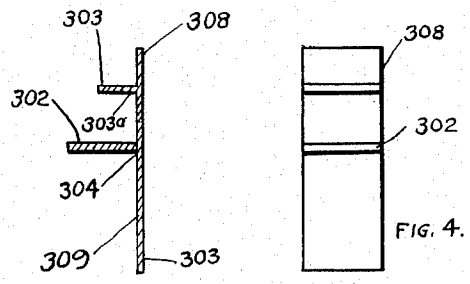


FIG. 3.

FIG. 4.

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RESERVATORY SUPPORTING DEVICE

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2 Claims. (Cl. 285—42)

This invention relates to roof sump adapters.

In previous roof drains wherein it was desired to install a drain in a new roof, it was necessary to provide a hole in the roof and to chamfer the top of the hole to provide a recess the thickness of the flange of the roof drain to be installed in order for the flange to nest therein. Further, with drains made according to prior designs, it was necessary to install the leader pipes to the reservatory before the roofing job was completed in order to hold the reservatory in place while the roofing was being installed. In this disclosure, a means is provided for installing the drain in the roof with the top flange of the reservatory flush with the roof without chamfering the edge of the hole in the roof to provide for thickness of the flange. Also, a means is provided for supporting the body of the drain on the roof before the leader pipes have been installed. The body is locked in place by means of an under deck clamp. This permits the roofer to install the body of the drain and complete the roofing job. At a later date, when the leader pipes have been installed, the hole is cut in the roofing material, the clamping collar is then installed, and the dome set in place.

More specifically, it is an object of this invention to provide a roof drain wherein the body of the drain can be installed in a plain cylindrical hole in a roof without the necessity of providing chamfered edges on the hole.

Another object of the invention is to provide a means for supporting the body of a roof drain independently of any leader pipes thereto prior to installation of piping.

Another object of this invention is to provide a roof drain which is simple in construction, economical to manufacture, and simple and efficient to use.

With the above and other objects in view, the present invention consists of the combination and arrangement of parts hereinafter more fully described, illustrated in the accompanying drawing and more particularly pointed out in the appended claims, it being understood that changes may be made in the form, size, proportions, and minor details of construction without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:

Fig. 1 is a side view partly in cross section of the reservatory and adapter;

Fig. 2 is another view of the embodiment of the invention shown in Fig. 1; and

Figs. 3 and 4 show a bracket adapted to be substituted for the ring of Figs. 1 and 2.

Now with more specific reference to the drawing, Figs. 1 and 2 disclose a reservatory **201** having an inwardly extending rim **217** through which spaced threaded holes **218** are formed which are adapted to receive bolts which extend through spaced peripheral holes **200** in a clamping ring **221**. The clamping ring **221** has a gravel retaining ledge **222** in which spaced peripheral grooves **223** are formed. Threaded apertures **260** in the form of blind holes are formed in the side of the reservatory **201**

through which a threaded stud **261** is disposed. The head of the stud **261** extends through a slot **280** in the circular bracket **262** which has an upper flange **263** and a lower leg **264** thereon which extend outwardly from bracket **262** and are adapted to engage the upper surface **265** and the lower surface **266**, respectively, of the roof.

The bracket members **262** could be made in the form of a ring but may be as shown in the form of spaced brackets for supporting the reservatory **201**. A hoop member **270** may be attached to the bracket member **262** to form a partition along the edge of the hole **267** in the roof. The insulation material **268** can be put in place on top of the surface **265** and held in place against the hoop member **270** and the flashing **230** can be put in place thereover. Then, at any time thereafter, the reservatory **201** may be slipped through the hoop like partition member **270** from below into engagement with the flashing **230** and the studs **261** attached thereto to hold the strainer in place.

The studs **261** can be attached as shown in Fig. 1 and the clamping ring **221** can be put in place on top of the flashing **230** to hold it against the outwardly and upwardly curving surfaces **208**. In this manner, it will be seen that the supporting brackets **262** can be put in place at any time during the construction of the building and the roof, including at a time after the installation of the flashing **230**. Then, at any later convenient time, the reservatory **201** can be installed without any inconvenience to the procedure of installation. The leader pipes can then be installed to the outlet opening **231** of the reservatory **201** at any later date.

Fig. 3 shows a bracket having a body **301** and flanges **302** and **303** attached thereto at **303***a* and **304**, respectively. The upper end **308** is adapted to be disposed in flush relation with the upper surface of a roof and the lower end **309** is adapted to be attached to a reservatory.

The foregoing specification sets forth the invention in its preferred practical forms but the structure shown is capable of modification within a range of equivalents without departing from the invention which is to be understood is broadly novel as is commensurate with the appended claims.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. In combination, a reservatory for a drainage system and means to attach said reservatory to a platform having a top and a bottom surface comprising a generally cup-shaped reservatory having generally vertical side walls, an open top, a bottom having an outlet therefrom, said outlet being adapted to be connected to a soil pipe, a hoop like partition member disposed around the outside upper portion of said side walls, circumferentially spaced clamping brackets disposed around the outside of the wall of said reservatory, the outside surface of said reservatory being disposed in engagement with the inside surface of said partition member and said brackets, said brackets being disposed below said partition member and having the inside walls of said brackets flush with the inside surface of said partition member, holes in said reservatory extending partly through the walls thereof, said clamping brackets each having a flat leg lying against the side of said reservatory, an upper and a lower vertically spaced, radially extending leg attached to each said flat leg, a slot in each said flat leg, a bolt extending through each said slot and threadably engaging said holes, said upper legs engaging the top of said platform and said lower legs engaging the bottom of said platform supporting said reservatory thereon, and an inwardly extending rim having an inwardly and downwardly extending top surface integrally attached to the upper edge of said reservatory, and a clamping ring for clamping flashing to said rim.

2. In combination, a reservatory for a drainage system and means to attach said reservatory to a platform having a top and a bottom surface comprising a generally cup-shaped reservatory having generally vertical side walls, an open top, a bottom having an outlet therefrom, said outlet being adapted to be connected to a soil pipe, a hoop like partition member disposed around the outside upper portion of said side walls, a clamping bracket disposed on the outside of the vertical side wall of said reservatory, the outside surface of said reservatory wall engaging the inside surface of said bracket, said clamping bracket having a flat leg lying against the side of said reservatory, an upper and a lower vertically spaced, radially extending leg attached to said flat leg, a slot in said flat leg, a hole in said reservatory extending partly through the wall, a bolt extending through said slot and threadably engaging said hole, said upper leg engaging the top of said platform and said lower leg engaging the bottom of said platform supporting said reservatory thereon, an inwardly extending rim having an inwardly and downwardly extending top surface integrally attached to the upper edge of said reservatory, and a clamping ring for clamping flashing to said rim.

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