Feb. 26, 1929. 1,703,769

G. L. JOACHIM

DRAIN TRAP

Filed July 19, 1928

Fig. 1.

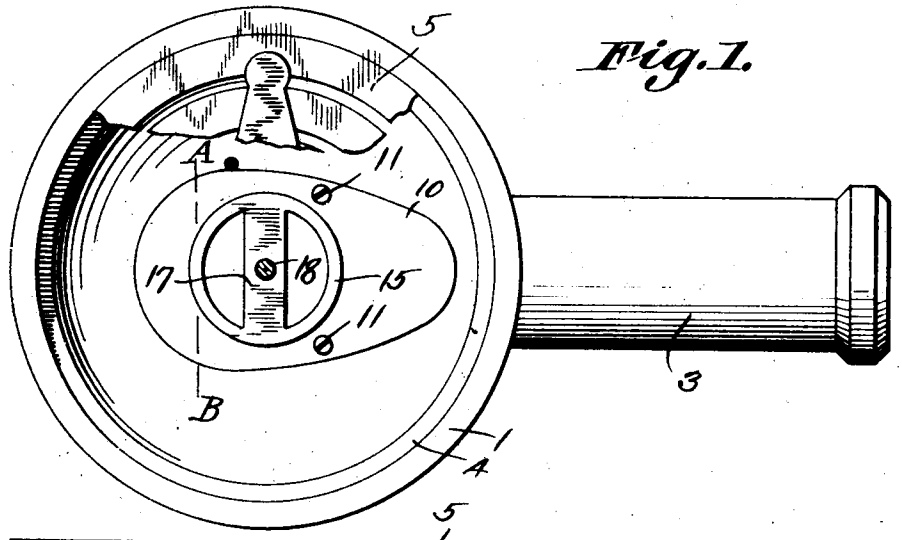


Fig. 2.

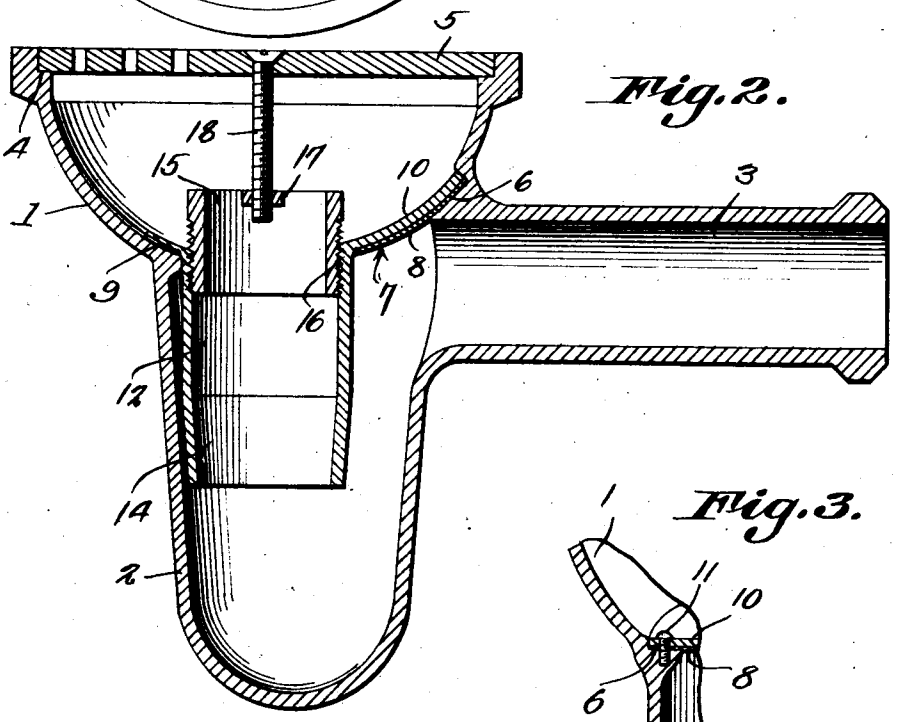


Fig. 3.

G. L. Joachim
Inventor

By C. A. Snow & Co.
Attorneys.

Patented Feb. 26, 1929. 1,703,769

UNITED STATES PATENT OFFICE.

GEORGE L. JOACHIM, OF MADISON, WISCONSIN.

DRAIN TRAP.

Application filed July 19, 1928. Serial No. 294,028.

This invention aims to provide a drain, adapted to be used in a floor, or elsewhere, and so constructed that it may be taken apart and cleaned out without difficulty. Another object of the invention is to provide novel means for trapping or holding back the sediment that finds its way into the device.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 is a top plan wherein parts are broken away;

Figure 2 is a vertical longitudinal section;

Figure 3 is a fragmental section taken through a portion of the bowl.

The device forming the subject matter of this application comprises a bowl 1 having a reduced depending extension 2 provided with a lateral outlet 3. At its top, the bowl 1 has a disposed shoulder 4 on which rests a grating 5, constructed as desired, the grating preferably being flush with the upper edge of the bowl 1, as shown in Figure 2.

The bowl 1 is supplied in its bottom with a seat 6. The seat 6 extends partway around the opening 7 that leads from the bowl 1 to the extension 2, the seat preferably running out to nothing at about the place where the line A B is marked in Figure 1. A compressible gasket 8 is located in the seat 6 and overlaps the upper surface of the bowl 1, beyond the seat 6, as shown at 9 in Figure 2.

On the gasket 8 and in the seat 6 rests a closure plate 10, held down by screws 11, or other fastening devices, which pass through the closure plate 10, and the gasket 8, and enter the bowl 1.

The closure plate 10 carries a depending sleeve 12, the lower end of which is tapered a little, as shown at 14. The sleeve 12 extends down into the part 2, below the outlet 3, and, thus, a trap is formed, since the water can accumulate in the extension 2 of the bowl and cover the lower end of the sleeve 12. A short tube 15 is threaded at 16 into the upper end of the sleeve 12, although the tube might be fastened in the upper end of the sleeve in some other way. The tube 15 extends upwardly above the bottom of the bowl 1, and the tube 15 will hold the sediment in the bowl 1 until the sediment accumulates high enough to run over the top of the tube 15 and down into the extension 2. A bridge 17 is extended across the upper end of the tube 15 and into the bridge 17 is threaded a screw 18 which holds the grating 5 in place. Much of the sediment will be retained in the bowl 1 by the upstanding end of the tube 15. Some sediment will accumulate in the extension 2.

When the operator wishes to clean out the part 2, or to run a cleaner into the outlet 3, screw 18 is loosened, the grating 5 is lifted off, the screws 11 are taken out, and the closure plate 10 is removed, along with the tube 15, and the sleeve 12 that forms the trap. Noting the size of the plate 10 in Figure 1, it will be clear that when the plate is taken out, there will be left in the bottom of the bowl, a hole 7 of such size that a workman can clean out the part 2 without difficulty and, more especially, get into the outlet 3 to remove a stoppage.

Having thus described the invention, what is claimed is:—

In a device of the class described, a drain including a bowl having a depending extension provided with an outlet, a closure mounted on the bottom of the bowl and giving access to the outlet, a tube carried by the closure and extending above the bottom of the bowl to form a sediment catcher, a grating in the upper end of the bowl, and a releasable connection between the grating and the tube.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

GEORGE L. JOACHIM.