(No Model.)

J. J. VAN DE WALLE.

SINK TRAP.

No. 425,641. Patented Apr. 15, 1890.

Fig. 1.

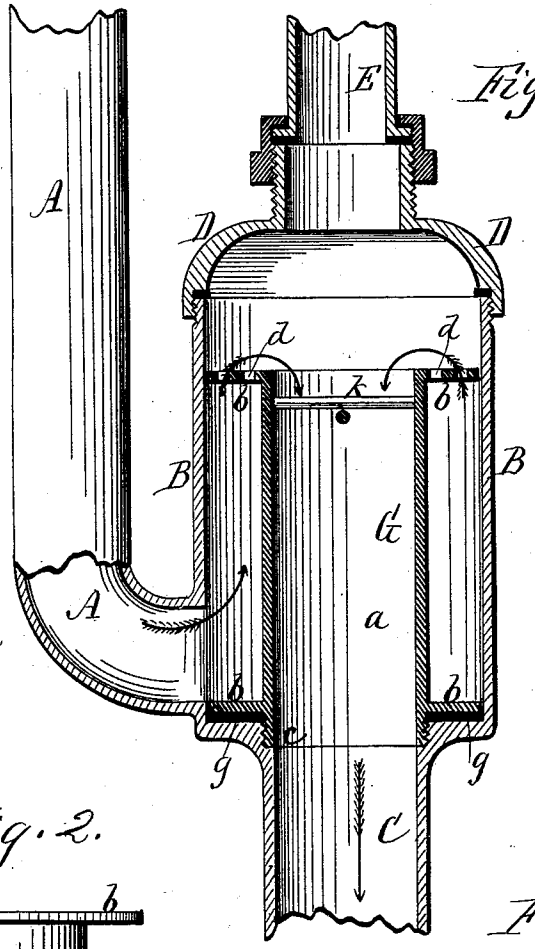


Fig. 2.

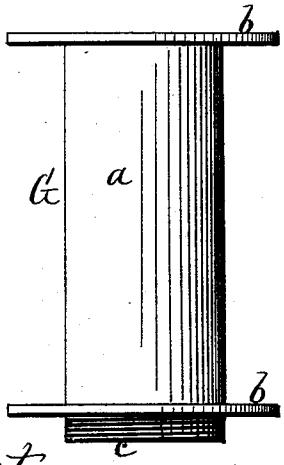
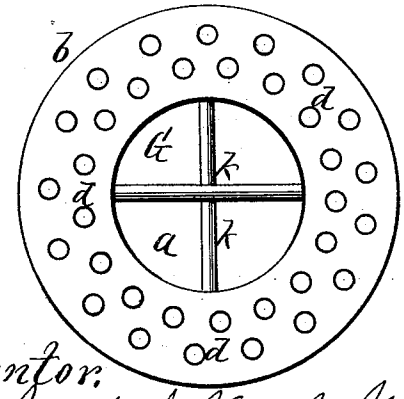


Fig. 3.



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JACOB J. VAN DE WALLE, OF ROCHESTER, NEW YORK.

SINK-TRAP.

SPECIFICATION forming part of Letters Patent No. 425,641, dated April 15, 1890.

Application filed March 8, 1889. Serial No. 302,552. (No model.)

To all whom it may concern:

Be it known that I, JACOB J. VAN DE WALLE, of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Sink or other Traps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this application.

My invention consists of a water-trap for sinks or other places, provided with a removable hollow open-ended plug or stopper, which arrests the deposit of extraneous matter and enables the same to be cleaned out without trouble, as hereinafter described.

In the drawings, Figure 1 is a central longitudinal vertical section of a trap provided with my improvement. Fig. 2 is an elevation of the hollow plug or stopper removed from place. Fig. 3 is an enlarged plan view looking down on top of the stopper.

A is the induction-pipe, attached to a sink or other receptacle to carry off the water.

B is a cylinder forming the trap. The pipe A opens into the cylinder near its bottom, as shown.

C is the discharge-pipe, connected with the bottom of the cylinder and serving to run the water off to a sewer or any other discharge.

D is a screw-cap covering the upper end of the cylinder and provided with a vent for the admission of air. If desired, a pipe E may extend up from the cap for the purpose of carrying off gases, said pipe being either attached solid with the cap or by a coupling, as shown.

My improvement is as follows: G is a plug or stopper, the same consisting of a tube *a*, open at both ends, and two flanged heads *b b*, of larger diameter than the tube. The lower end of the plug or stopper has a projecting screw-nozzle *c*, which screws into a seat in the lower end of the cylinder. The upper flanged head of the plug or stopper has perforations or openings *d d*, which form strainers to the water. The plug or stopper is inserted inside of the cylinder, its lower flanged head coming below the opening of the induction-pipe A and resting on a packing *g*, while the screw-nozzle *c* enters the seat of the cylinder, as before described. A tight joint is thus made at the lower end, and the interior of the tube *a* coincides with the interior of the discharge-pipe C. The upper flanged head *b* of the plug or stopper stands some distance above the opening of the induction-pipe A, and a body of water always rests in the annular space between the walls of the outer cylinder B and the tube *a* and forms a trap. When the water rises over the top of the plug or stopper G, it runs down through said plug or stopper and escapes through the discharge-pipe. Such solid matter as passes down the induction-pipe A is arrested and held in the annular space surrounding the stopper, as the upper flanged head of the latter will prevent it from passing through.

This invention is applicable in all places where water is discharged from a receptacle and where it is desired to arrest and stop extraneous matter in the trap. It is especially valuable in sinks where much fine sediment and grease pass into the trap and tend to clog the same. Such matter will be stopped and will gather in the annular space between the cylinder and stopper. One great advantage is that the stopper is removable, so that when it gets clogged it can be taken out and the deposit cleaned off without difficulty. This trap also differs from most others in having the induction-pipe A open into the bottom instead of the top of the trap.

The stopper G is provided with cross-pins *k k* or some other means to enable it to be turned and removed by any suitable instrument.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the cylinder B, provided with the induction-pipe A and discharge-pipe C, of the removable plug or stopper G, consisting of the tube *a*, flanged heads *b b*, the upper one provided with perforations to allow the passage of water, and the screw-nozzle *c*, as shown and described, and for the purpose specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

JACOB J. VAN DE WALLE.

Witnesses:

R. F. OSGOOD,

WM. J. MCPHERSON.