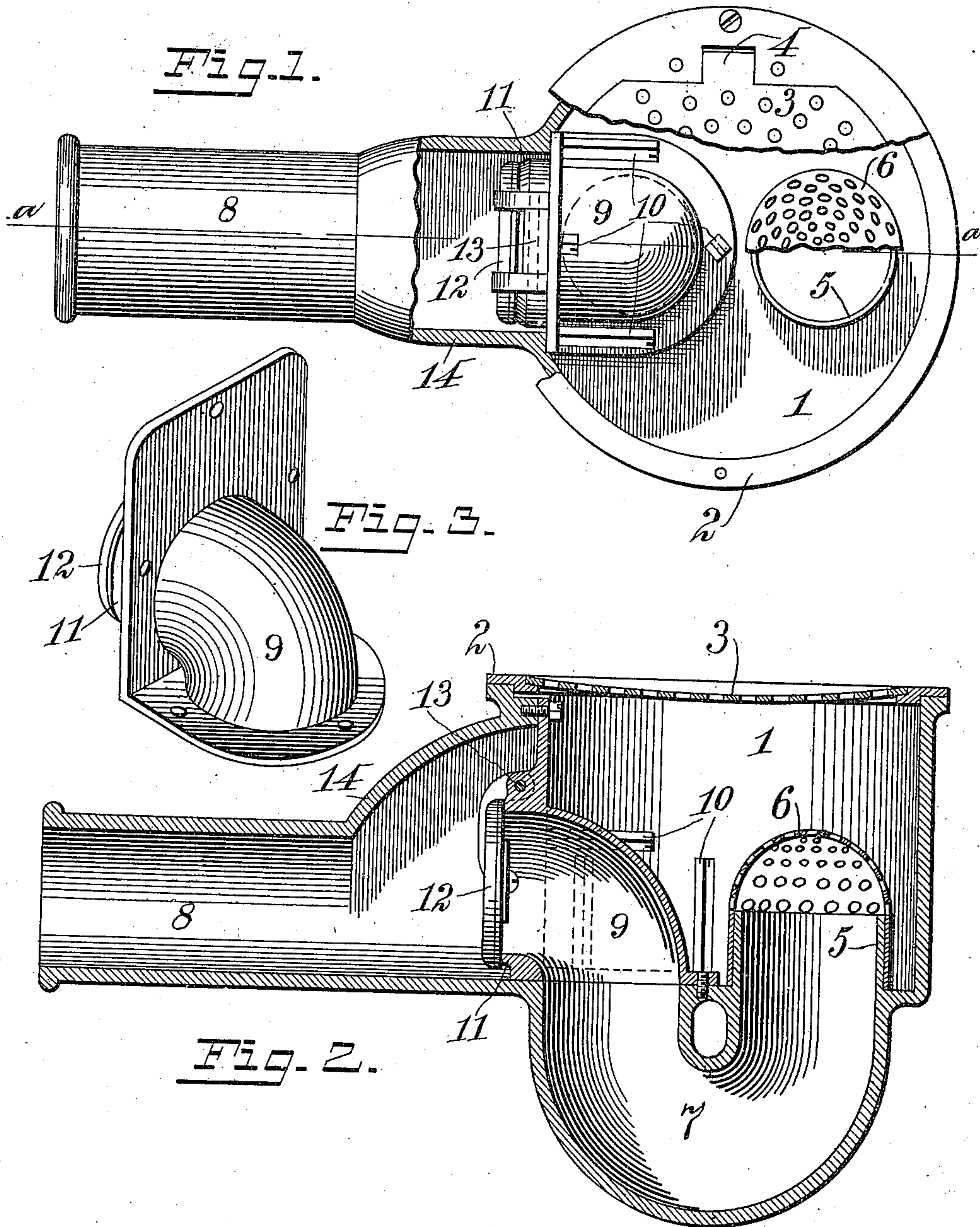


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FLOOR DRAIN TRAP.  
APPLICATION FILED JULY 28, 1910.

976,108.

Patented Nov. 15, 1910.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLIAM WEILER, OF DAYTON, OHIO.

## FLOOR-DRAIN TRAP.

976,108.

Specification of Letters Patent.

Patented Nov. 15, 1910.

Application filed July 28, 1910. Serial No. 574,255.

*To all whom it may concern:*

Be it known that I, WILLIAM WEILER, citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Floor-Drain Traps; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in floor drain traps, and is adapted to be used in connection with shower baths and in the floors of basements.

The object of the invention is to provide a floor drain trap, the outlet of which is situated near the floor line, thereby allowing the floor drain to be used in places where the outlet to the sewer is high.

Another object of the invention is to provide a device of this type that is simple in construction, and from which the valve and clean-out plug may be easily extracted without danger of the parts being incorrectly replaced.

Referring to the drawings, Figure 1 is a top plan view partially in section; Fig. 2 is a longitudinal vertical section on the line *a-a* of Fig. 1; and Fig. 3 is a perspective view of the combined valve and clean-out plug.

Referring more particularly to the drawings, 1 represents a basin, the upper edge 2 of which is placed on a line with the floor. The basin 1 may be provided with a perforated cover 3 hinged at 4 to allow access to the interior of the basin. The water enters the basin through the perforated cover, which may be slightly concave as is shown in the drawings, and finds egress through a standpipe 5. The standpipe 5 may be provided with a perforated cover 6, and said standpipe provides a settling chamber for sediment, sand, lint, etc., thereby preventing the same entering and clogging the sewer. To prevent the escape of sewer gas, a trap 7 is provided which connects with the standpipe 5. The water after passing through the trap 7, passes out of the basin through a waste pipe 8 extending from one side of the basin. To allow

access to the interior of the trap 7 and waste pipe 8, a clean-out plug 9 is mounted over the openings thereof. This clean-out plug may be held in place by any suitable means such as screws 10. I find it desirable to make the heads of these screws of a length greater than that of which they are ordinarily made, so that a small wrench may be used in removing the same. The clean-out plug 9 also acts as a passage-way for the liquid from the trap 7 to the waste pipe 8.

To prevent back water entering the basin 1 through the pipe 8 and trap 7, a valve is provided as follows. The clean-out plug 9 is provided with a valve seat 11 on which a flap valve 12 is adapted to seat. The valve 12 is pivoted at 13, and a pocket 14 is provided in the waste pipe 8 in which the valve 12 is adapted to swing. The valve 12 opens toward the pipe 8, thereby preventing back water which may flow into the pipe 8, entering the basin 1 through the trap 7. It will be seen that, by this arrangement, the full diameter of the waste pipe will be secured at the valve, which will prevent the possibility of the pipe becoming obstructed. As the trap 7 directs the water upwardly, the waste pipe 8 may be placed high in reference to the floor line, thereby allowing the same to be used in places where the outlet to the sewer is high. The clean-out plug 9 and valve 12 being united, prevents the parts being misplaced and incorrectly replaced when the plug is removed to clean out the trap.

I claim:

1. In a device of the type specified, the combination with a basin, a waste pipe extending therefrom, a trap mounted below and opening into said basin, of a clean-out plug mounted over the opening in said trap and forming a communication between the trap and the waste pipe.

2. In a device of the type specified, the combination with a basin, a waste pipe extending from said basin, a trap mounted below and opening into said basin, a clean-out plug mounted over the opening in said trap and forming a passageway from the trap to the waste pipe, and a valve mounted on said clean-out plug and opening toward said waste pipe.

3. In a device of the type specified, the combination with a basin, a waste pipe extending from said basin, a trap mounted be-

low and opening into said basin, of a clean-out plug mounted in said basin and forming a communication between the trap and the waste pipe, and said trap being extended  
5 upwardly at its inlet into the basin, to form a standpipe, thereby forming a settling chamber in the bottom of the basin.

In testimony whereof I affix my signature, in presence of two witnesses.

WILLIAM WEILER.

Witnesses:

HOWARD S. SMITH,  
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