

(No Model.)

D. A. HORGAN.
TRAP FOR SINKS, &c.

No. 483,961.

Patented Oct. 4, 1892.

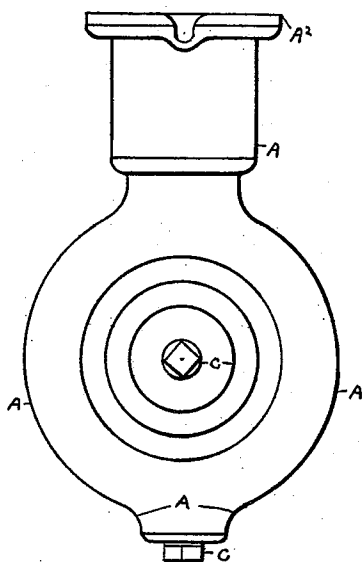


Fig. 1.

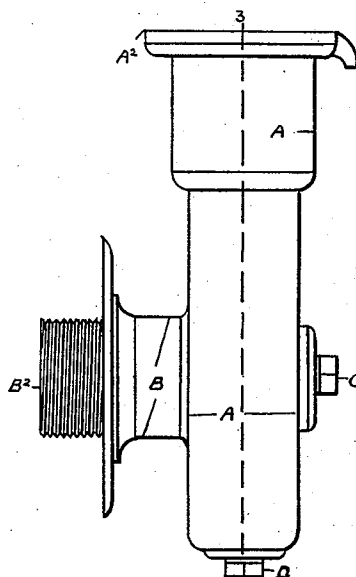


Fig. 2.

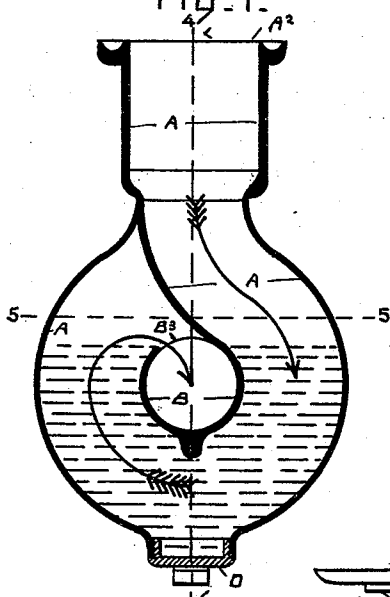


Fig. 3.

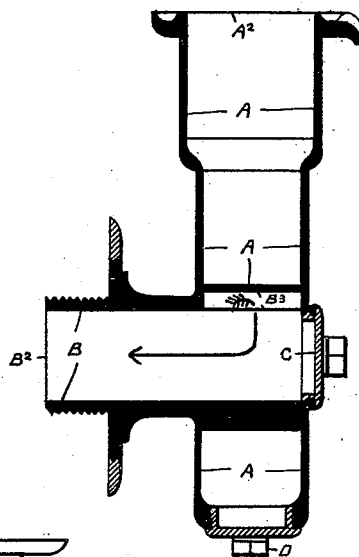


Fig. 4.

WITNESSES.
Henry F. M. Keever.
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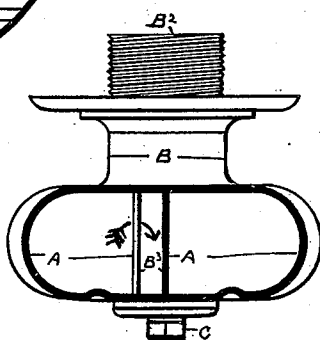


Fig. 5.

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UNITED STATES PATENT OFFICE.

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TRAP FOR SINKS, &c.

SPECIFICATION forming part of Letters Patent No. 488,961, dated October 4, 1892.

Application filed June 2, 1890. Serial No. 353,951. (No model.)

To all whom it may concern:

Be it known that I, DENNIS A. HORGAN, a citizen of the United States of America, and a resident of the city of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Traps for Urinal-Bowls, Sinks, Set Wash-Basins, &c., of which the following is a full, clear, and exact description.

This invention relates to a trap which has been more especially designed for urinal-bowls, but can be used for sinks, set wash-bowls, and other water-fixtures, all as is apparent from the description hereinafter given.

The trap of this invention consists, essentially, of a casing having an outlet and an inlet chamber or passage and the inlet-chamber encircling and at one end communicating with the upper portion of the outlet-chamber and at the other end adapted for its connection with the discharge of the water-fixture and the outlet-chamber extending across from side to side of inlet-chamber and at one end adapted for its connection with the waste-pipe and at the other end closed, but preferably adapted to be opened and closed at pleasure, and all substantially as hereinafter described, and whereby standing water can be secured in the inlet-chamber to the height of its communication with the outlet-chamber, thus water-sealing the inlet-chamber against the passage of obnoxious gases from the waste-pipe to the water-fixture, and, also, if said outlet-chamber is adapted to be opened and closed, enabling it and its discharge-pipe to be opened for cleansing it and without interference with the water standing in the inlet-chamber.

In the drawings forming part of this specification, Figure 1 is a front elevation of the trap. Fig. 2 is a side elevation. Fig. 3 is a vertical section on line 3 3, Fig. 2. Fig. 4 is a vertical section on line 4 4, Fig. 3. Fig. 5 is a horizontal section on line 5 5, Fig. 3.

In the drawings, A represents the inlet chamber or passage, and B the outlet chamber or passage, and both in common contained in a casing or shell, as is plain from the drawings, and which may be made of brass or other metal or suitable material and by molding or in any other well-known or suitable manner. The inlet-chamber A encircles and communi-

cates at B³ with the upper portion of the outlet-chamber B, and its outlet-pipe A² is adapted in any well-known manner or otherwise suitably for connection with the discharge of a water-fixture, (not shown,) but such as a urinal-bowl, a sink, a set wash-bowl, &c. The outlet-chamber B extends across and from side to side of and has no communication with the inlet-chamber A, except at B³, as before stated.

B² is the discharge-pipe of the outlet-chamber B, and it is projected from one side thereof, and is to be adapted in any well-known manner or otherwise suitably for connection with a waste-pipe. (Not shown.) The outlet-chamber B and the inlet-chamber A, encircling it, preferably are axially coincident, and they are so shown. The combination of inlet and outlet chambers A B in a common casing, all as explained, obviously secures a continuous passage for water from the water-fixture to the waste-pipe, and also standing water in the inlet-chamber A to the height of its opening B³ into the outlet-chamber B, thus sealing said chamber A against the passage of obnoxious gases, &c., from the outlet-pipe to the water-fixture.

C is a screw-threaded plug or cap screwed into the screw-threaded end of the outlet-passage B, opposite to its end, having the discharge B², which is to be connected to the waste-pipe, as explained. By removing the plug C the outlet-chamber B and its discharge and waste pipe connection are opened for being cleansed and without exposing the water standing in the inlet-chamber A, and by reinserting said plug they are closed. The adapting of the outlet-passage B for being opened and closed is an important feature and forms part of this invention.

D is a screw-threaded plug screwed into a screw-threaded opening at the lower portion of the inlet-chamber A of the trap. By removing this plug D the inlet-chamber A is opened for being cleansed and by reinserting it said chamber is closed.

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

1. In a trap, a casing having an outlet-chamber extending horizontally across it from side to side and provided with a discharge-

pipe projecting from one side of said casing, combined with an inlet chamber or passage encircling said outlet-chamber and communicating with the upper portion of the same 5 and with the inlet-pipe, substantially as described, for the purpose specified.

2. In a trap, a casing having an outlet-chamber extending horizontally across it from side to side and provided with a discharge- 10 pipe projecting from one side of said casing, combined with an inlet chamber or passage encircling said outlet-chamber and communicating with the upper portion of the same

and with the inlet-pipe and a clean-out aperture and cap located at one end of said outlet-chamber and opposite to and in line with its discharge-pipe, substantially as described, 15 for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing 20 witnesses.

DENNIS A. HORGAN.

Witnesses:

ALBERT W. BROWN,
HENRY F. MCKEEVER.