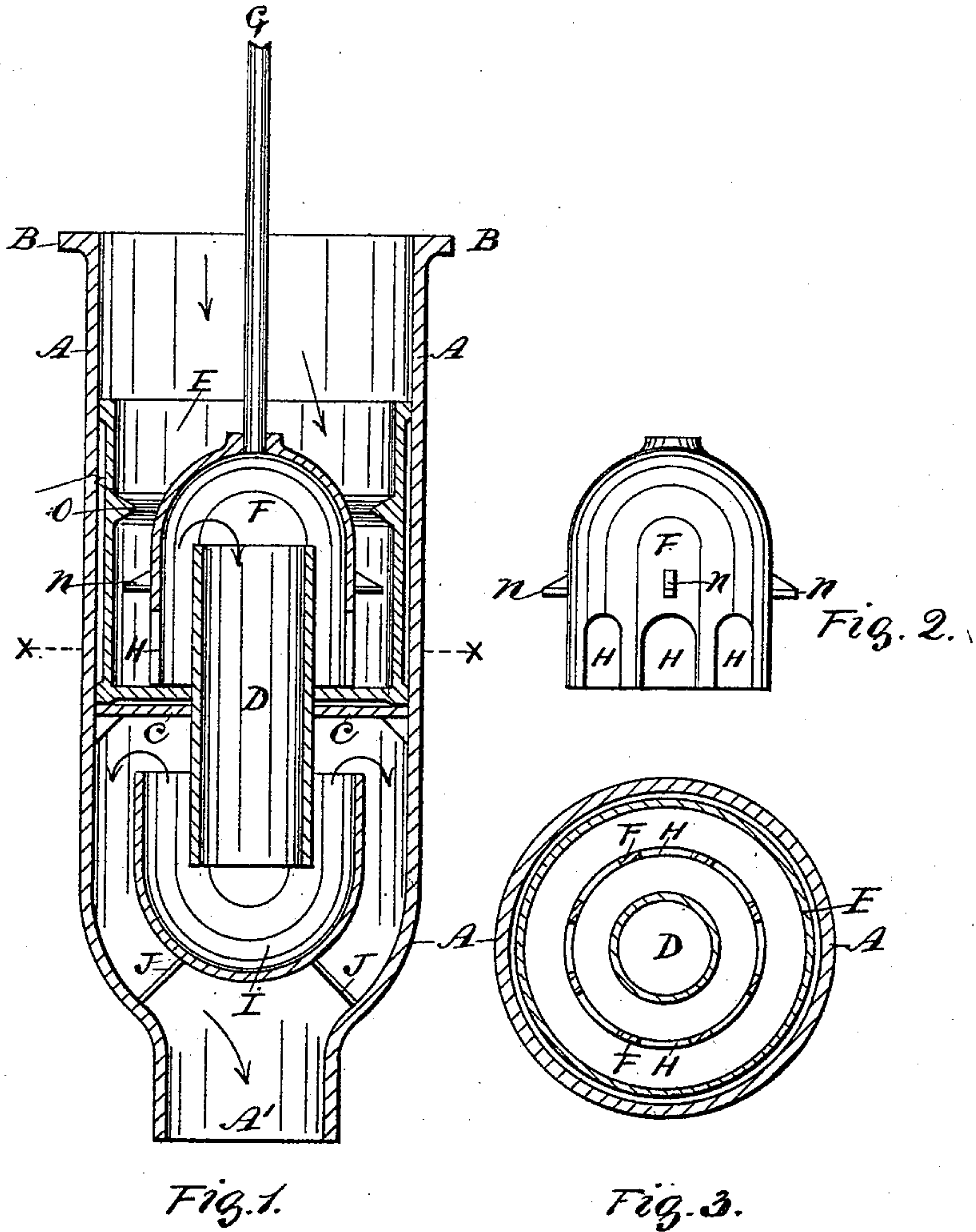


(No Model.)

R. BAKER.
DOUBLE SEALED WATER TRAP.

No. 436,114.

Patented Sept. 9, 1890.



Witnesses
Alfred Young.
Henry Thompson.

Inventor.
Robert Baker.
per his Attorney
John Hendry.

UNITED STATES PATENT OFFICE.

ROBERT BAKER, OF HAMILTON, CANADA.

DOUBLE-SEALED WATER-TRAP.

SPECIFICATION forming part of Letters Patent No. 436,114, dated September 9, 1890.

Application filed March 31, 1890. Serial No. 346,131. (No model.)

To all whom it may concern:

Be it known that I, ROBERT BAKER, a citizen of Canada, residing at Hamilton, in the county of Wentworth, in the Province of Ontario and Dominion of Canada, have invented a new and useful Double-Sealed Water-Trap, of which the following is a specification.

My invention relates to improvements in double-sealed closet and sink traps, in which an outer shell or cylinder having an integral flange for the purpose of supporting an internal cylinder and a central vertical tube, the upper end of the tube being sealed by an adjustable metallic seal in conjunction with water; and the objects of my improvements are, first, to provide a soil and water trap for closet purposes and to effectually seal the same; second, to afford facilities for the proper adjustment of the upper seal and internal cylinder and thorough discharge of the soil, and, third, to provide a sink-trap that will effectually admit, discharge, and substantially seal the same. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of a machine embodying my invention; Fig. 2, an elevation of the upper adjustable metallic seal having a series of openings, and Fig. 3 a plan of the section of the machine through the broken line *x x*.

Similar letters refer to similar parts throughout the several views.

In the drawings, A is the outer shell or cylinder, its flange B denoting its upper surface where attached to closets or sinks for the admission of water, soil, &c. The cylinder has an integral flange C, and secured thereto water-tight is its central tube D. The internal cylinder E fits snugly to the interior of cylinder A and rests upon the flange C, and the upper seal F, having a series of openings H, is supported by the internal cylinder E.

I is the lower metal cup-shaped seal, and

is held in its rigid position by means of a series of braces J.

In operating the trap, the water and soil enter at the upper end of the cylinder A, the passage being denoted by arrows, and pass down between the cylinder E and the convex side of seal F and through the openings H of said seal, and then upward and down through the center tube D into the concave of seal I until this seal overflows. Then it passes downward into the lower part of cylinder A and through its outlet A', to which a length of soil-pipe may be attached. This pipe attached to the outlet A' creates the vacuum in the interior of the trap, as before mentioned. When flushing the trap for heavy soil purposes, the upper seal F is lifted by means of its attached rod G. The two or more lugs *n* on said seal come in contact with the integral rim O of cylinder E, thus raising the latter until its lower end is brought into close proximity or level to the upper end of the central tube D. At this point all the refuse that could not possibly penetrate through the openings of the seal is flushed or washed away down through the tube D.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a double-sealed trap, an open shell or cylinder A, having an internal integral flange C and internal cylinder E supported thereon and a central vertical tube held therein, said cylinder E being open at the top and fitting the tube D at the bottom, said cylinder E having an internal rim O, in combination with the seal F, having a series of openings H and lugs *n*, adapted to engage the rim O, the rod G, attached to the seal F, and the cup-shaped lower seal I, held in place in cylinder A, substantially as described.

ROBERT BAKER.

Witnesses:

JAMES BURGESS,
ALFRED YOUNG.