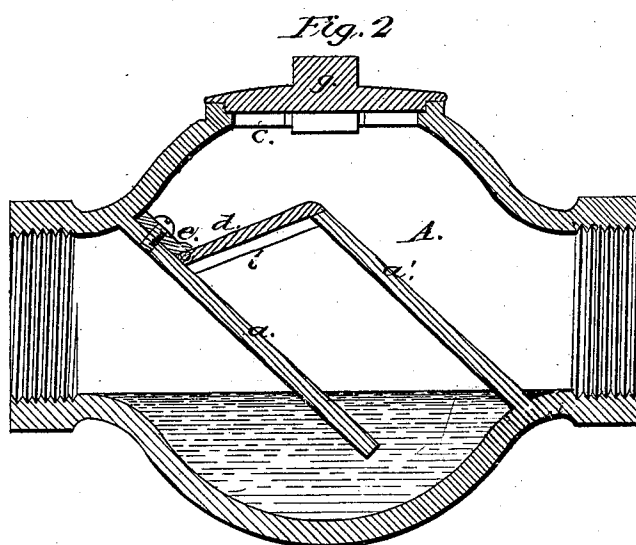
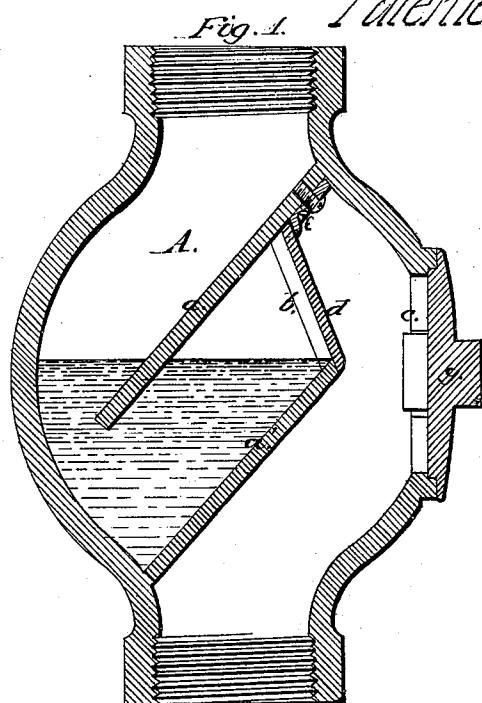


# Haley & Morrell, Trap.

No. 93,084.

Patented July 27, 1869.



Witnesses:  
*Wm Haynes*  
*J W Coor by*

Inventors:  
*Asiah S Haley*  
*Samuel Morrell*

# United States Patent Office.

JOSIAH S. HALEY AND SAMUEL MORRELL, OF NEW YORK, N. Y.

Letters Patent No. 93,084, dated July 27, 1869.

## IMPROVEMENT IN STENCH-TRAPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, JOSIAH S. HALEY and SAMUEL MORRELL, of the city, county, and State of New York, have invented a new and improved Stink-Trap; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form part of this specification, and in which—

Figures 1 and 2 represent, in vertical and horizontal positions, a longitudinal section of a stink-trap, constructed according to our invention.

Similar letters of reference indicate corresponding parts in both figures.

This invention relates to the stink-traps of water-closets, wash-basins, sinks, &c. It is designed more especially for use in hotels, factories, and other buildings in which steam-engines or steam-heating apparatus are used, and where the exhaust steam discharged into the waste-pipe creates a backward pressure upon the trap, sometimes, with traps of the ordinary construction, forcing the foul air and other unwholesome effluvia of the waste-pipes and sewers through the water contained in the traps, and into the apartments of the building. The object of this invention is to obviate this evil; and

The invention consists in a novel construction of the trap, and the novel arrangement of a valve therein, whereby back pressure, caused by the exhaust steam, is prevented from acting against the water contained in the trap.

Referring to the accompanying drawings—

A is the box or shell of the trap, having the usual induction and eduction-openings, and provided with diagonally-arranged partitions *a a'*. Said partitions are joined to the inner surface of said shell, upon op-

posite sides of the induction and eduction-openings, and extending diagonally upward and downward, respectively, pass each other in parallel lines, so as to form a trap for the water while either vertically or horizontally arranged.

At a suitable point between these partitions *a a'*, is provided a valve-seat, *b*, through which the waste passes.

This much of the apparatus is preferably constructed of cast-metal, and in one piece, but might also be constructed in various other ways. When cast in one piece, as here described, an opening, *c*, is left in that side of the shell next to the valve-seat, for insertion of a valve, *d*.

This valve *d* operates upon a hinge, *e*, which is secured, by a screw or otherwise, to the partition *a*, so that it will open readily to any downward pressure, but close when acted upon by an upward or back pressure.

After the insertion of the valve, the opening *c* is closed, by means of a cap, *g*.

What we claim as our invention, and desire to have secured by Letters Patent, is—

The diagonally-arranged partitions *a a'*, joined to the shell A, the part *a* descending below the level of the continuous pipe, so as to dip into the water held in the globular enlargement, and provided with a valve-seat and valve, substantially as and for the purpose herein set forth.

JOSIAH S. HALEY.  
SAMUEL MORRELL.

Witnesses:

FRED. HAYNES,  
HENRY PALMER.