

Haley & Morrell,

Traps.

No. 93,084.

Patented July 27, 1869.

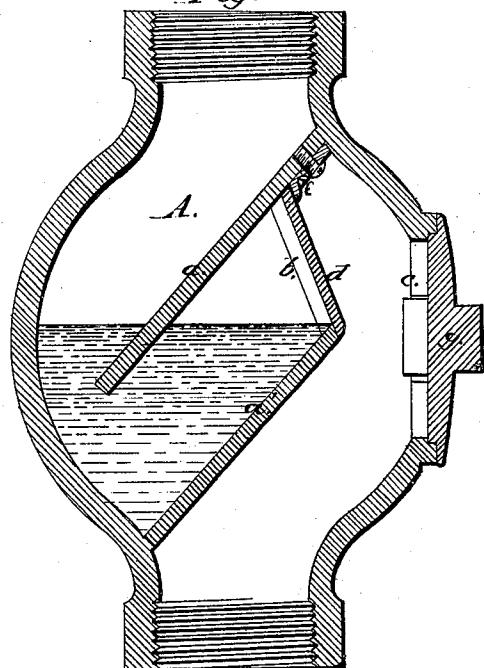
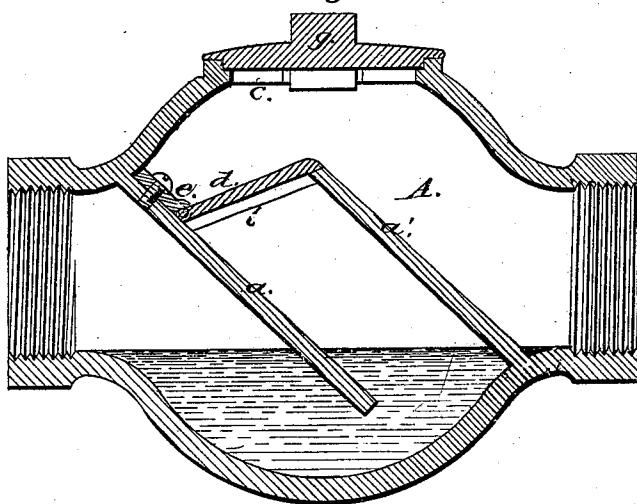


Fig. 2



Witnesses:

John Haynes
J. W. Coon by

Inventors:

Asaiah 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.