

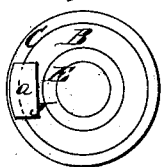
*Jenkins & Polley,*

*Steam Trap.*

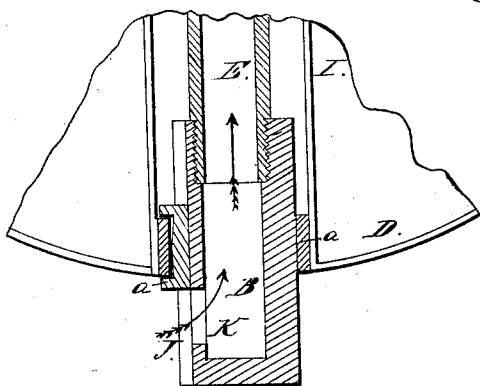
*No. 25,510,*

*Patented Sep. 20, 1859.*

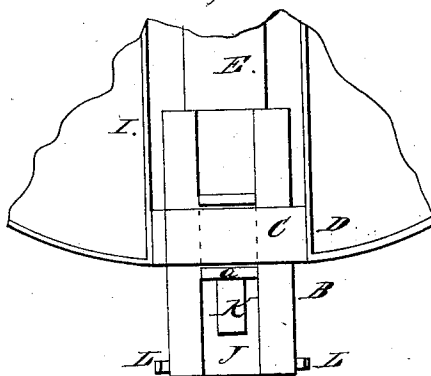
*Fig. 4*



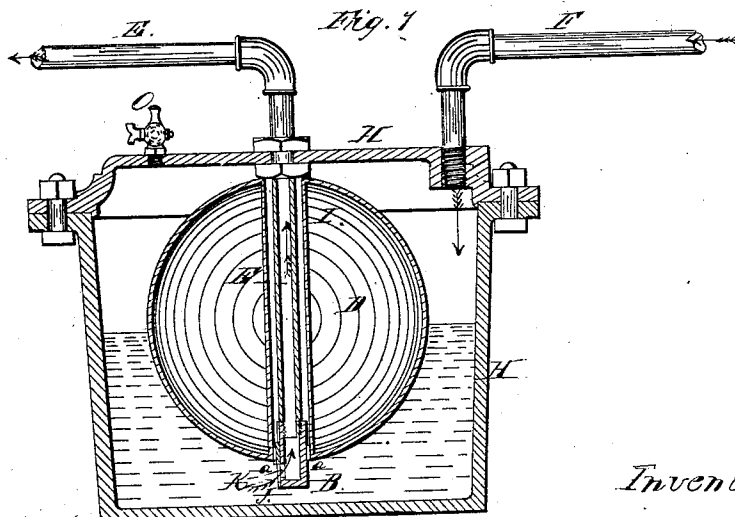
*Fig. 2.*



*Fig. 3.*



*Fig. 1*



*Witnesses*

*Abraham Boone  
J. W. McGowan*

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*Edward Jenkins  
Frank B. Polley*

# UNITED STATES PATENT OFFICE.

EDWARD T. JENKINS AND FRANK B. POLLEY, OF WILLIAMSBURG, NEW YORK.

## STEAM-TRAP.

Specification of Letters Patent No. 25,510, dated September 20, 1859.

### *To all whom it may concern:*

Be it known that we, EDWARD T. JENKINS and FRANK B. POLLEY, of Williamsburg, in Kings county, in the State of New York, have invented a new and improved steam-trap for retaining steam in the heating apparatus for warming buildings, &c., and allowing the water of condensation to pass from the same; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure I is a vertical section of our steam trap, *a* showing the valve, B a pipe, C a ring, D a float, E E the exit pipe, F the inlet pipe, H H the case for the trap, I the pipe running through the float D and serving to keep it in a vertical position, J the valve seat formed by cutting a slot upon the pipe B, K an opening for admitting the water of condensation into the exit pipe E. Fig. II is a vertical section of ball, valve and valve seat, *a* showing the valve, B a pipe, C a ring, D the float, E the exit pipe, I the pipe passing through the float D, J the valve seat, K the opening for admitting the water of condensation into the exit pipe E. Fig. III, a vertical section of the ball, showing outside of valve and valve seat. *a* the valve, B a pipe, C a ring, D the float, E the exit pipe, I a pipe passing through the float D, J the valve seat, and K an opening for admitting the water of condensation into the exit pipe E. L, L, are pins for preventing the ring C and valve *a* from passing below the valve seat J. Fig. IV, a top view of valve and seat; *a* showing the valve, B a pipe, C a ring, E the exit pipe, J the valve seat.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

Our invention is intended to be attached to a steam heating apparatus for warming buildings, &c., and is used for the purpose of retaining steam in the same, and allowing or facilitating the water of condensation to pass from the same.

We employ a case H, H, which contains

the apparatus—also a float (D) with a pipe marked as I running through it, and serving to keep it (D) in a vertical position. This float D is attached to a ring C, which ring embraces the valve *a*, and valve seat J, formed by cutting a slot upon the pipe B. Into this pipe B, is screwed the pipe E serving as an outlet for the water of condensation, to which it is admitted by means of the opening K, having first been introduced by the inlet pipe F. To prevent the ring C, embracing the valve *a*, from passing below the valve seat J, two pins are employed as shown at L, L, Fig. III.

The operation of our invention is as follows: Steam being introduced into the pipes, whatever is condensed by the atmosphere, or by liquid surrounding the coils of pipe or any other surface employed, passes into the trap through the inlet pipe F, as shown by the arrow, together with any quantity of steam that will enter with it. When the water rises to a sufficient height in the trap, to move the float D, the valve *a*, attached to the same (D) by ring C opens and the water of condensation, which has entered through pipe F, is discharged by means of the opening K and exit pipe E. When a sufficient quantity of water has been discharged to relieve the buoyancy of the float D, the valve *a* will return to its original position upon the valve seat J and over the opening K, and prevent the steam from being discharged.

One of the advantages of our invention is that the valve *a*, being a slide valve, has a tendency to wear light and requires a less amount of power to operate it, thus enabling a larger discharge of water than by any other trap now in use.

What we claim as new and desire to secure by Letters Patent is:

The round pipe B, in combination with the valve seat J, valve *a*, ring C, opening K and float D, when arranged and operated in the manner described and for the purpose specified.

EDWARD T. JENKINS.  
FRANK B. POLLEY.

Witnesses:

J. W. McGEVIRAN,  
A. SIDNEY DOANE.