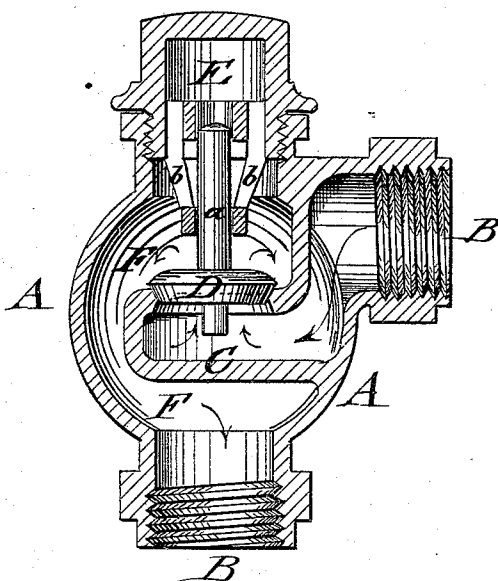


M. T. DAVIDSON.
Check-Valves.

No. 147,614.

Patented Feb. 17, 1874.



Witnesses:

Chas. Nida
Signers

Inventor:

M. T. Davidson

Per

Wm. H. [Signature]
Attorneys.

UNITED STATES PATENT OFFICE.

MARSHALL T. DAVIDSON, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN CHECK-VALVES.

Specification forming part of Letters Patent No. **147,614**, dated February 17, 1874; application filed November 15, 1873.

To all whom it may concern:

Be it known that I, MARSHALL T. DAVIDSON, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Check-Valve, of which the following is a specification:

The accompanying drawing represents a vertical central section of my improved check-valve.

The invention will first be fully described, and then pointed out in the claim.

In the drawing, A represents the globe-shaped elbow-piece, to whose tubular extension B the steam or water pipes are screwed under suitable angle in the usual manner. The valve-seat C is cast in one piece, with the globe part A projecting in the shape of a cup horizontally from the entrance side of the steam, the lower outer part of seat C being curved upward, while the upper part projects vertically downward, narrowing the steam-entrance pipe, and connecting the same with the cup-shaped seat in the form of an S, to the aperture of which the valve D is closely fitted. The steam enters below the valve D, in the manner indicated by arrows in the drawing, presses equally on all parts of the same, and lifts it vertically from the seat. The valve-

stem *a* is guided in a ring-shaped extension, *b*, of screw-cap E, which is placed vertically above the seat C, being easily detachable, and allowing thereby convenient access to the interior of the valve. The globe-shaped elbow A forms an annular chamber around the cup-shaped seat, through which the steam or water is easily conducted to the exit-pipe, their return being checked in an effective manner by their vertical downward pressure exerted on the valve, securing it more tightly in its seat. The valve works thus easily in both directions, and forms by its position at the elbow-joint of the pipes a very convenient and efficient connection of the same.

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

The combination of the globe-shaped elbow, having a horizontal valve-seat, as described, with a screw-cup arranged vertically above the seat, with ring-shaped extension for guiding the valve in a vertical direction, substantially as and for the purposes set forth.

MARSHALL T. DAVIDSON.

Witnesses:

HENRY BARAGWANATH,
RICH'D. LOPPIN.