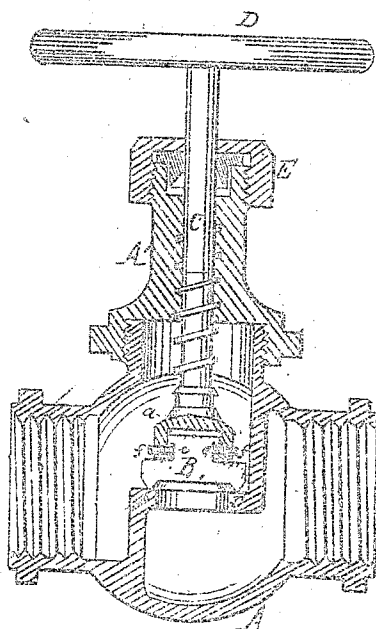


*H. H. Hendrick, Globe Valve.*

73602

PATENTED

JAN 21 1868



Witnesses  
*Thos. Linde-*  
*Mr. Gurn*

Inventor  
*H. H. Hendrick*  
*Per Munnell*  
*Attorney*

United States Patent Office.

H. H. HENDRICK, OF DAYTON, OHIO.

Letters Patent No. 79,602, dated January 21, 1868.

IMPROVEMENT IN STEAM-ENGINE GLOBE-VALVES.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, H. H. HENDRICK, of Dayton, in the county of Montgomery, and State of Ohio, have invented a new and improved Globe-Valve; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to a new and improved construction of globe-valves for steam, liquids, or gas, whereby the same are rendered much more durable than they have hitherto been; and the invention consists in a valve, made of chilled or case-hardened iron, and so attached to the valve-stem that the valve is self-adjusting, while the expense of the valve is greatly lessened.

The drawing represents a vertical section of the arrangement, showing the valve attached to its stem and adjusted to its seat.

A A' represent the shell, which is cast of brass or other suitable metal, and in the usual form. B is the valve; C is the valve-stem; D is the hand-wheel on the stem C; E is the stuffing-box around the valve-stem; F represents the valve seat. The shell is formed of two parts, the part A' being screwed on to A, and forming the nut in which the screw-thread on the valve-stem works. The stuffing-box is attached to the part A' in the usual manner, or so that a tight joint is formed, and leakage around the valve-stem prevented. The valve-seat is a plain, flat surface, and the valve is a loose disk, attached to the valve-stem by means of a chambered collar, *a*, which is rigidly fastened to the stem. The valve has a neck, *c*, which is grooved at *a*, as seen in the drawing. This neck sets into the chamber of the collar *a*, where it is secured by screws *f f*, which pass through the collar *a*, and enter the groove *c* on the valve-neck, as seen. The valve is formed of chilled cast iron or of other iron, and case-hardened. The bearing-surface of the valve on the seat is a v-shaped flange on its face, as seen in the drawing. This valve, being thus formed, and loosely attached to the valve-stem, adjusts itself to its seat and forms a tight joint, on the softer metal of which the seat is formed.

The ruinous action of high steam upon valves formed of the softer metals is well known, and my object in this invention is to provide a cheap and efficient valve, which shall withstand such action. These disks may be cast in chill moulds, ready for use, thus reducing the expense to a mere trifle, while the valve is comparatively indestructible from ordinary use.

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

As a new article of manufacture, a disk-valve B, formed of chilled or case-hardened iron, in the manner described, and loosely attached to the stem, substantially as shown and specified.

H. H. HENDRICK.

Witnesses:

T. B. STEVENSON,  
PRINTER LO.