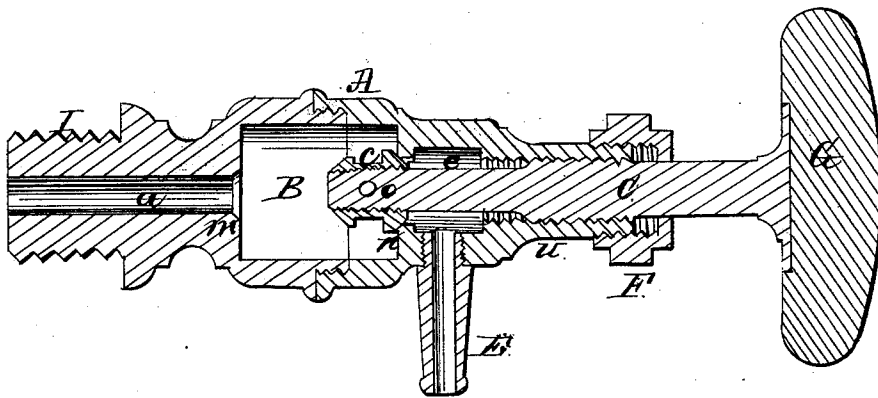


T. B. Dexter,
Steam Gage Cock,
N^o 69,782, Patented Oct. 15, 1867.



Witnesses:
P. J. Dodge
Chas. Thomas

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THOMAS B. DEXTER, OF LYNN, MASSACHUSETTS.

Letters Patent No. 69,782, dated October 15, 1867.

IMPROVEMENT IN STEAM-GAUGE COCKS.

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, THOMAS B. DEXTER, of Lynn, in the county of Essex, and State of Massachusetts, have invented certain new and useful improvements in Gauge-Cocks for Steam-Boilers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention consists in a novel construction of the shell and valve of gauge-cocks, by which the valve may be closed by screwing the stem in, and also by screwing the same outward, so that when one end of the valve or its seat becomes worn, the other may be used, and the gauge-cock remain equally effective.

The drawing represents a longitudinal section, taken through the centre.

A represents the shell, which I construct of two parts and unite by a screw-joint at the centre, the end being provided with a screw-thread at I in the usual manner for attaching it to the boiler. A hole, *a*, extends longitudinally through the centre from the end to the central chamber B, and is provided with a conical seat, *m*, at the point where it enters the chamber B. At the opposite end of said chamber B another and similar valve-seat, *n*, is formed, from whence the passage or opening leads into and connects with another and smaller chamber, *e*, as shown in the drawing. Connected with this chamber *e* is an escape pipe or spout, E, for the escape of the steam or water. From the chamber *e* the shell is extended far enough to afford a bearing for the valve-stem C, and has a screw-thread, *u*, formed on its inner surface corresponding with a projecting screw-thread cut on the stem C in the usual manner, the shell terminating with the ordinary cap F, to form a stuffing-box around the stem C. The valve-stem C is reduced in diameter from the point where the thread on it terminates to the point where the valve *e* is attached. The valve *e* consists of a block or plug made conical at each end, to fit the seats *m* and *n*, and secured firmly to the inner end of the stem C by means of a pin, *o*, and also by being screwed thereon, if desired.

With the parts thus constructed and arranged, it will be seen that when the valve *e* is brought back to the seat *n* the cock is perfectly closed, and that when its opposite end is forced forward against the seat *m* it is equally closed; and that, as no steam or water can escape from pipe E until it enters the second chamber *e*, the cock can be closed by either a forward or backward movement of the stem C, at pleasure; and hence, when one end of the valve or its seat becomes worn the other can be used, and the cock thus remain fit for use.

Having thus described my invention, what I claim, is—

A gauge-cock, provided with the double-headed valve *e*, arranged to operate in combination with the valve-seats *m* and *n*, located at opposite ends of the chamber B, substantially as shown and described.

THOMAS B. DEXTER.

Witnesses:

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