

L. F. SMITH.
GAGE COCK.

No. 105,503.

Patented July 19, 1870.

Fig. 1.

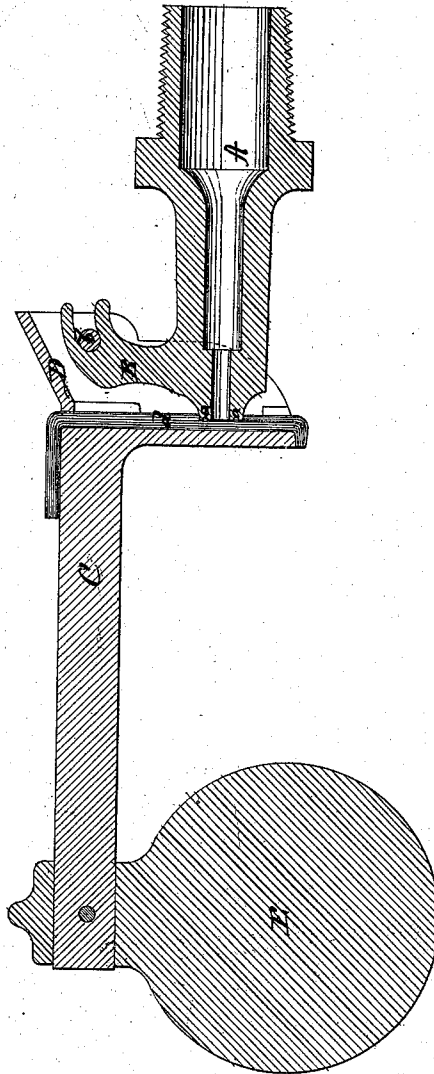


Fig. 2.

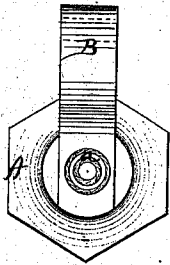
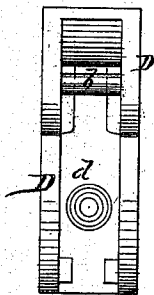


Fig. 3.



Witnesses:

W. Smith.
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Att'y

United States Patent Office.

LEVI F. SMITH, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 105,503, dated July 19, 1870.

IMPROVEMENT IN 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, LEVI F. SMITH, of Philadelphia, in the county of Philadelphia and in the State of Pennsylvania, have invented certain new and useful Improvements in Gauge-Cock for Steam-Generators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a gauge-cock for steam-generators, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section of my gauge-cock;

Figure 2 is a view of the outer end of that part which is screwed into the steam-boiler; and

Figure 3 is a view of the inner end of the weighted part of the gauge-cock.

A represents that part of a gauge or try-cock which is screwed into the steam-boiler.

This part is provided, near its outer end, on the upper side, with a projection, B, curved, as shown, on its upper side, and a slot cut from the rear side, so as to form a hook, as seen in fig. 1.

The outer end of the part A is provided with a double valve-seat, *a*.

The lever C is provided at its inner end with a box-like extension, D, having a pin, *b*, through its upper end, which pin is placed in the slot or hook on the projection B, whereby said lever becomes hinged or pivoted to the part A. The sides of the box D extend a suitable

distance below the double valve-seat *a* of the part A, so as to prevent the water or steam passing out from escaping at the sides, but conduct it downward.

In the back of the box D is placed a piece, *d*, of lead or rubber, against which the valve-seat *a* rests, forming an impression in the same.

On the outer end of the lever C is suspended a weight, E, which may be made adjustable, if so desired.

It will readily be seen that the valve-seat *a* being double, a ring is formed in the lead or rubber *d*, which fits in between the two seats, making it perfectly tight, and the valve-seat will not work through the lead or rubber as soon as is the case with a single valve-seat.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The part A, constructed as described, with slotted or hooked projections B and double valve-seat *a*, substantially as and for the purposes herein set forth.

2. The weighted lever C, provided with box-like extension D, pin *b*, and lead or rubber *d*, all substantially as and for the purposes herein set forth.

3. The combination of the part A with projection B and double valve-seat *a*, and the lever C, with weight E, box D, pin *b*, and lead or rubber *d*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 4th day of June, 1870.

LEVI F. SMITH.

Witnesses:

C. L. EVERT,
A. N. MARR.