

No. 771,208.

PATENTED SEPT. 27, 1904.

J. W. C. PROCHNOW.
GAGE COCK FOR STEAM BOILERS.

APPLICATION FILED JULY 5, 1904.

NO MODEL.

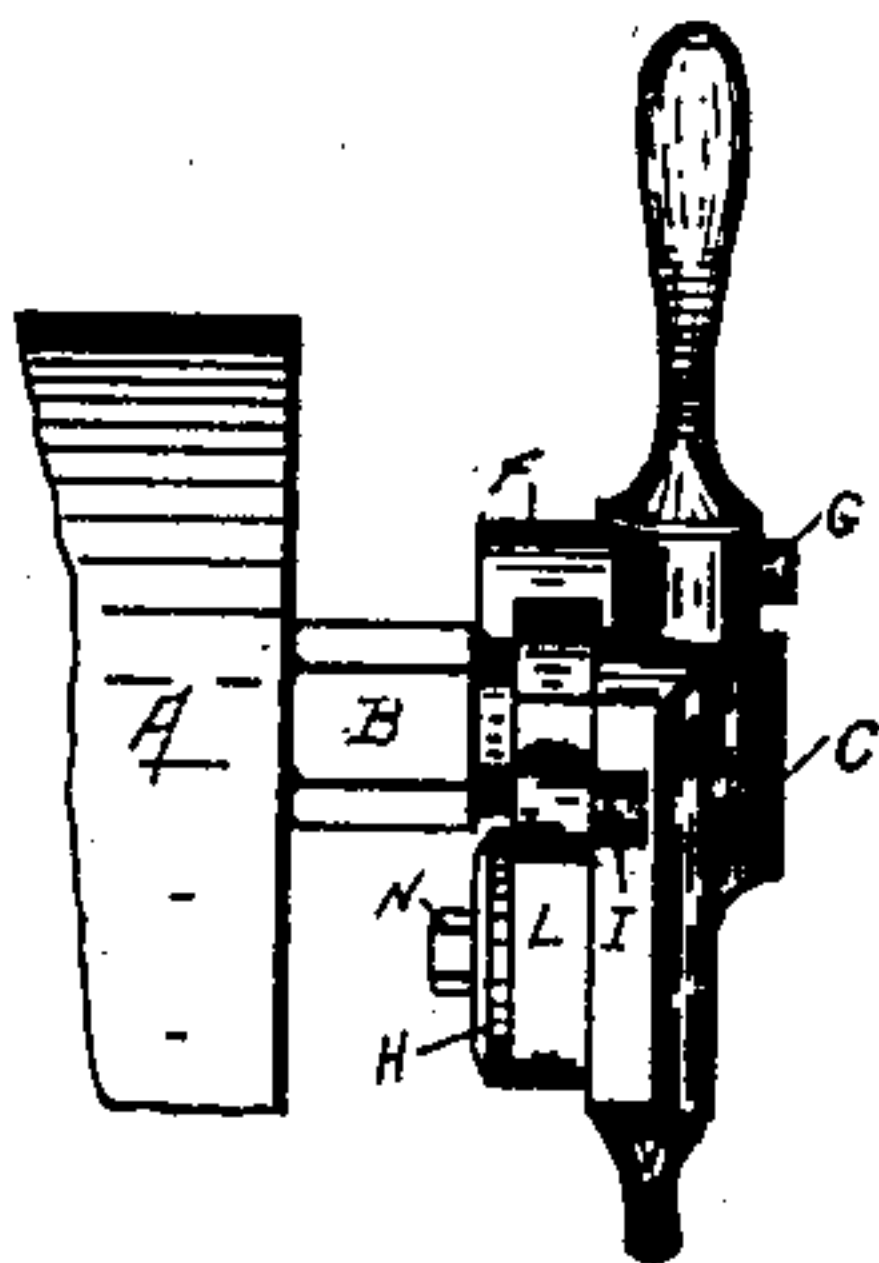


Fig. 1.

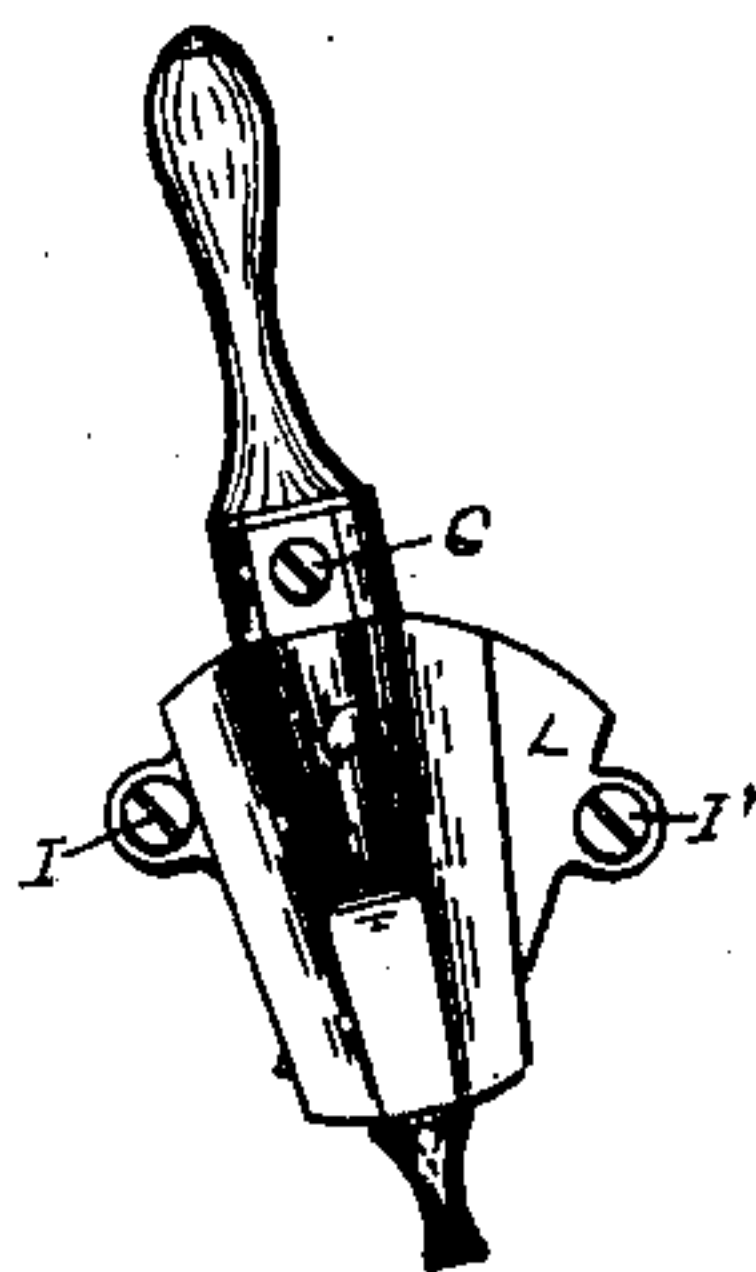


Fig. 2.

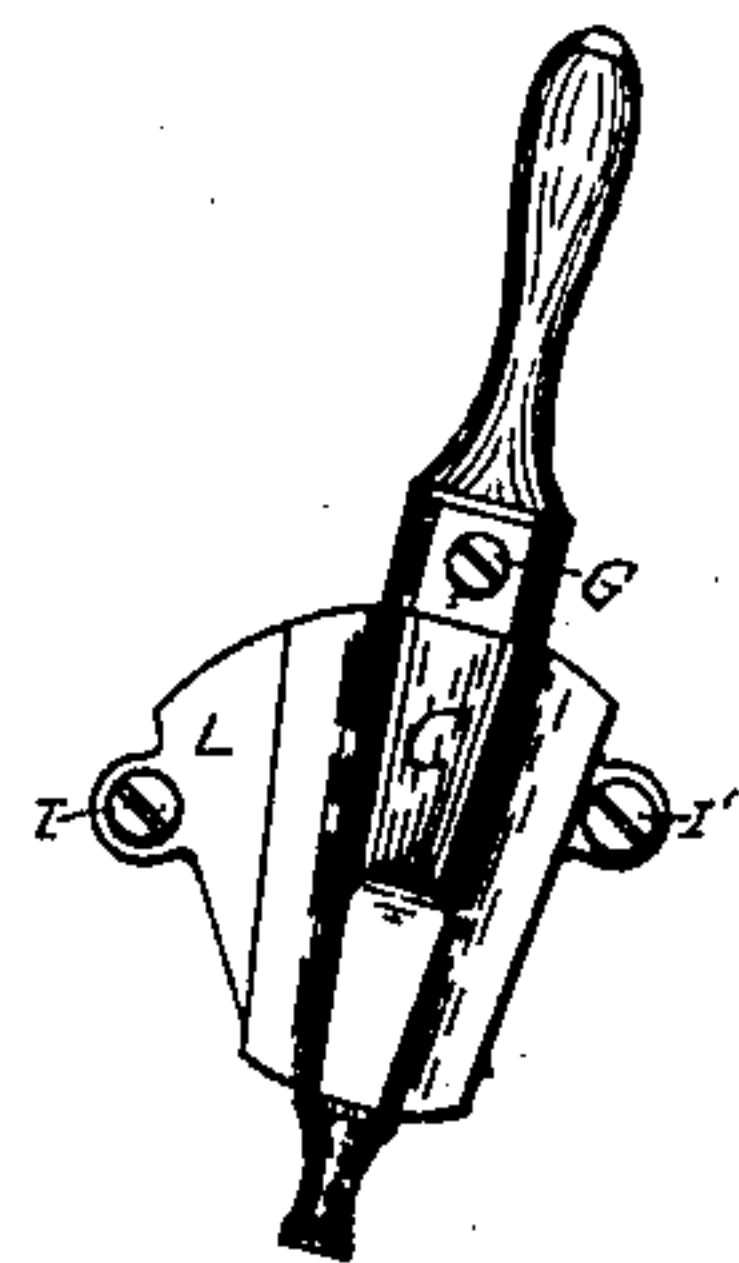


Fig. 3.

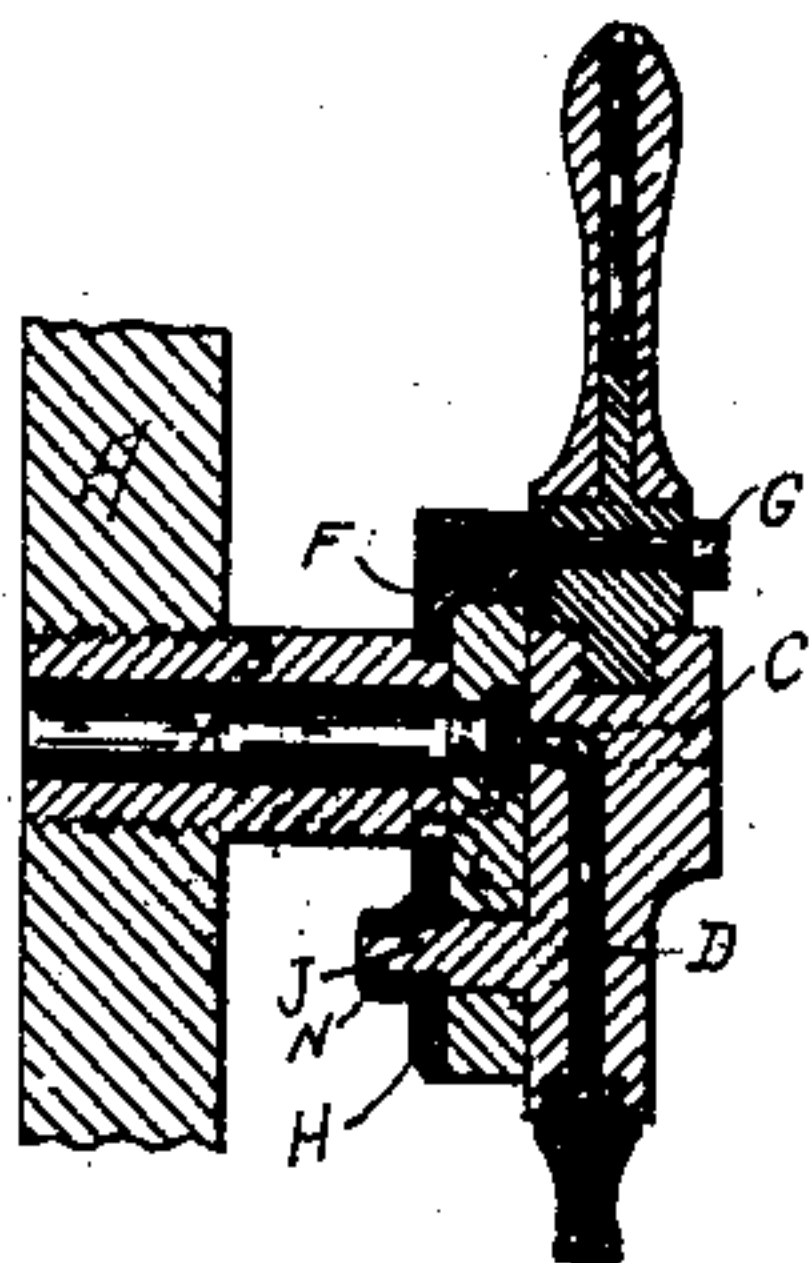


Fig. 4.

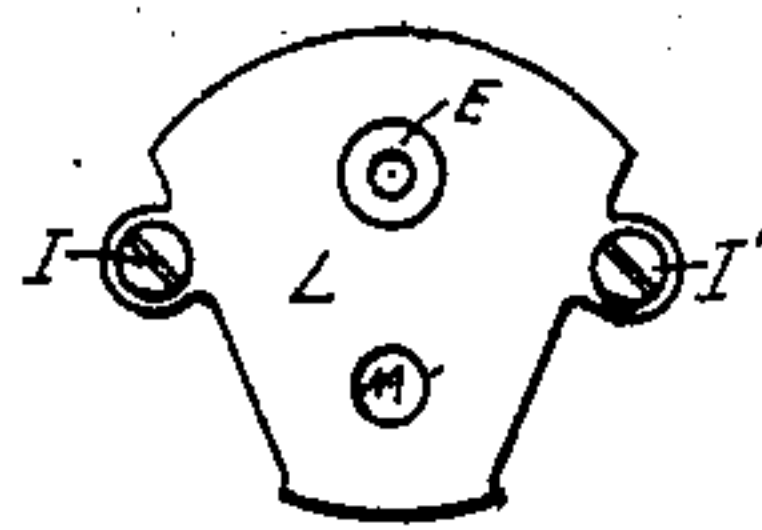


Fig. 5.

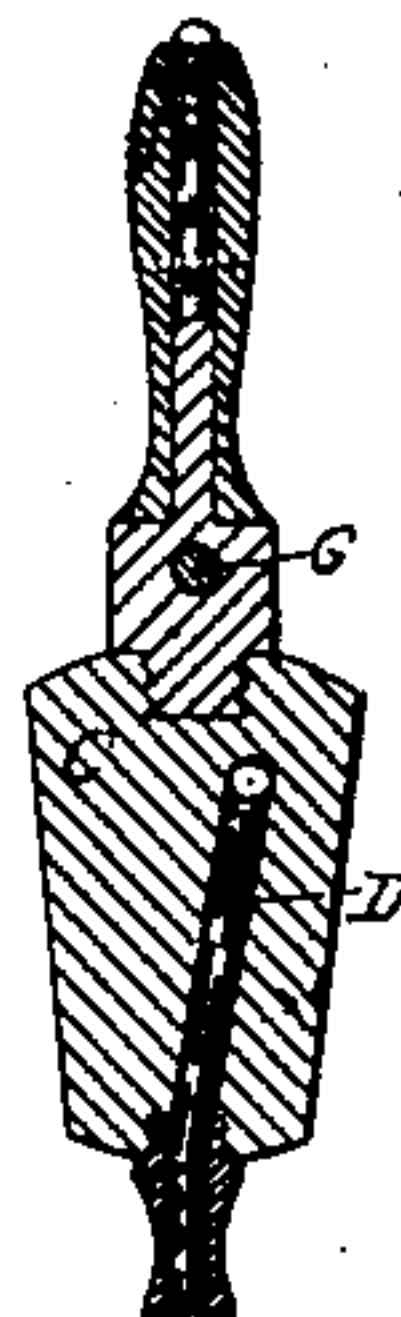


Fig. 6.



Fig. 7.

Witnesses:

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UNITED STATES PATENT OFFICE.

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GAGE-COCK FOR STEAM-BOILERS.

SPECIFICATION forming part of Letters Patent No. 771,208, dated September 27, 1904.

Application filed July 5, 1904. Serial No. 215,433. (No model.)

To all whom it may concern:

Be it known that I, JULIUS WILLIAM CHARLES PROCHNOW, a citizen of the United States, residing at the town of Flagstaff, county of Coconino, Territory of Arizona, have invented a certain new and useful Improvement in Gage-Cocks for Steam-Boilers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 represents a side view of my improved gage-cock attached to a boiler. Fig. 2 represents a front view of the same with exhaust opened. Fig. 3 represents a front view of same with exhaust closed. Fig. 4 represents a sectional view of the same. Fig. 5 represents face-plate, showing bushing of hard rubber or other suitable material. Fig. 6 represents sectional view of rotary lever. Fig. 7 represents metal washer used in connection with rotary lever.

Similar letters refer to similar parts throughout the several views.

My invention relates to improvements in gage-cocks; and it consists, chiefly, in the combination of certain parts and mechanism, as I hereinafter more fully describe and claim; and the object of my invention is to provide in a simple manner a means to test the water-level in a boiler and to prevent the leakage that commonly prevails in all present appliances of this nature.

In the drawings, A represents the boiler, and B represents connecting-tube properly connected to the upper part of face-plate L and boiler A. In connecting-tube B the end of the opening K that connects with face-plate L is counterbored to a larger diameter and fitted with a bushing E of hard rubber or other suitable material. The lower part of face-plate L is provided with an opening M. On the sides of face-plate L are provided two stop-screws I and I'. A rotary lever C with a wooden handle, having as a bearing at its lower end a stud J, passing through opening

M in lower part of face-plate L, is kept flush against bottom of face-plate L by washer H and nut N. This rotary lever C is also provided with a clamp F, which clamps the top of said lever flush to face-plate L by means of a set-screw G. This rotary lever is also provided with exhaust-outlet D, placed within it and at one side of the center, so that when rotary lever is moved to one side and checked by stop-screw I exhaust-outlet D will be directly opposite opening K, thereby allowing the water or steam to escape freely. When rotary lever is moved in opposite direction and stopped by stop-screw I', the opening K is closed. By the expansion, by reason of heat from the boiler, of the bushing E, of hard rubber or other suitable material, a perfectly tight joint is effected when rotary lever C is in a closed position.

The metal washer H, which passes over the stud J, is provided with a flat side in opening to act as a lock to the nut N to prevent nut from working off of stud J in the operation of the rotary lever C. The exhaust-outlet D within lever C need not necessarily be made to the right of center, as shown in Fig. 6, but may be made to the left of center at will, thereby reversing position of rotary lever, as described, or it may be made straight through the lever, as shown by dotted lines in Fig. 4; but

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

1. In a gage-cock, the face-plate L provided with a bushing E, of hard rubber or other suitable material, in combination with a rotary lever C which is flush with face-plate L and held in place by a clamp F (provided with a set-screw G,) and by the stud J and washer H and nut N, substantially as shown and set forth.

2. In a gage-cock, the face-plate L having the stop-screws I and I' fastened to said face-plate at opposite sides, in combination with the rotary lever C, which is provided with a clamp F held in place by a set-screw G, and provided also with the stud J and washer H and nut N, substantially as shown and set forth.

3. In a gage-cock, the rotary lever C, pro-

vided with the stud J and the washer H and the nut N, in combination with the clamp F (provided with a set-screw G,) substantially as shown and set forth.

- 5 4. In a gage-cock, the rotary lever C having within it and at one side of center, the exhaust-outlet D, and having also the stud J and the washer H and the nut N, and having also the clamp F (provided with a set-screw G,) in

combination with the face-plate L provided 10 with stop-screws I and I', substantially as shown and set forth.

In testimony whereof I have hereunto set my signature in the presence of two witnesses.

JULIUS WILLIAM CHARLES PROCHNOW.

Witnesses:

HARRISON CONRAD,

JAMES L. BYRNES.