H. C. GIBBS & M. GANGLER.

GAGE COCK.

APPLICATION FILED OCT. 11, 1912.

1,068,333. Patented July 22, 1913.

Fig. 1.

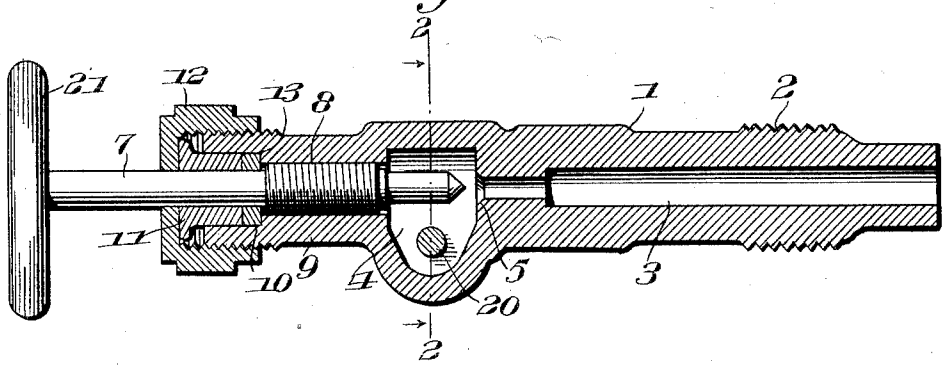
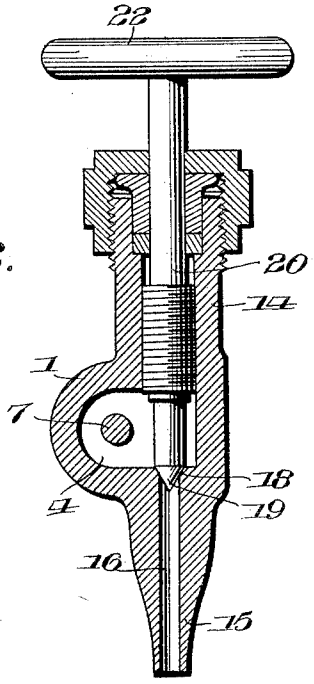


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

HIRAM C. GIBBS AND MATHIAS GANGLER, OF CHICAGO, ILLINOIS.

GAGE-COCK.

1,068,333. Specification of Letters Patent. Patented July 22, 1913.

Application filed October 11, 1912. Serial No. 725,302.

To all whom it may concern:

Be it known that we, HIRAM C. GIBBS and MATHIAS GANGLER, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Gage-Cocks, of which the following is a specification.

This invention relates to a gage cock for steam boilers and the principal object of the invention is to provide a cock of this character wherein the valve seat or pin may be ground with a full head of steam on the boiler.

The invention consists essentially in a casing having two spindles operatively arranged therein with seat engaging pins on their ends and the device is so adapted that when one spindle is disabled the other spindle may be brought into play to determine the amount of water or steam in the boiler.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawing which forms a part of this application, and in which:—

Figure 1 is a longitudinal sectional view. Fig. 2 is a transverse vertical sectional view on the line 2—2 of Fig. 1.

Referring more particularly to the drawing 1 represents the casing which has a longitudinal extension 2 threaded at its end to enter the boiler, and provided with a central longitudinal bore 3 communicating with an enlarged chamber 4 in the center of the casing. At the juncture of the bore 3 with the chamber 4 a valve seat 5 is formed against which is adapted to rest the pin and body of a valve spindle 7. This valve spindle is threaded as shown at 8 so as to be adjustable in the nipple 9 which is alined with the extension 2 upon the opposite side of the chamber 4. The spindle is packed in the usual manner by a packing 10, a packing sleeve 11 and a packing nut 12 which forces the packing sleeve against the packing and the latter against a shoulder 13 formed in the nipple. Extending at right angles to the extension 2 and the nipple 9 and slightly offset therefrom is a nipple 14 and a discharge nozzle 15 the latter provided with a central bore 16 which alines with the bore 17 in the nipple 14. The bore 16 communicates with the chamber 4 and the valve seat 18 is formed at the juncture of the bore 16 in the chamber 4 to receive the pin end 19 of the spindle 20. Both spindles are provided with handles as shown at 21 and 22 for the manipulation of the same.

In operation the spindle 7 has its pin end removed from the seat 5 and the spindle 20 is used to close the discharge through the bore 16. Should the spindle 20 become worn on the pin or spring a leak the spindle 7 can be operated to close the passage through the bore 3 and the spindle 20 can be removed and ground and then replaced. Should the spindle 20 become so disabled that it could not be used the spindle 7 could be utilized to test the boiler.

What is claimed is:—

A gage cock comprising a cruciform casing having a longitudinal bore and an offset transverse bore communicating therewith, and valve spindles mounted in the casing and crossing each other, one of the bores adapted to connect with a boiler and the other bore opening into the atmosphere, both valves adapted to independently close communication between the boiler and the atmosphere.

In testimony whereof we affix our signatures in presence of two witnesses.

HIRAM C. GIBBS.
MATHIAS GANGLER.

Witnesses:
AUGUST L. T. BEUERMAN,
ERNEST NASELLI.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."