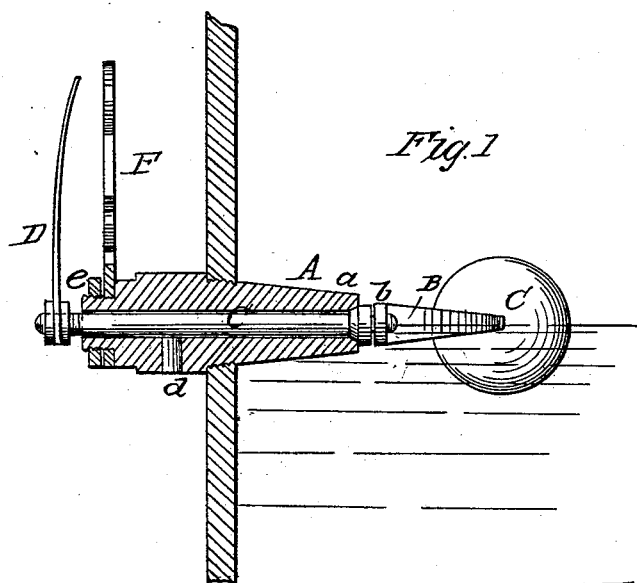
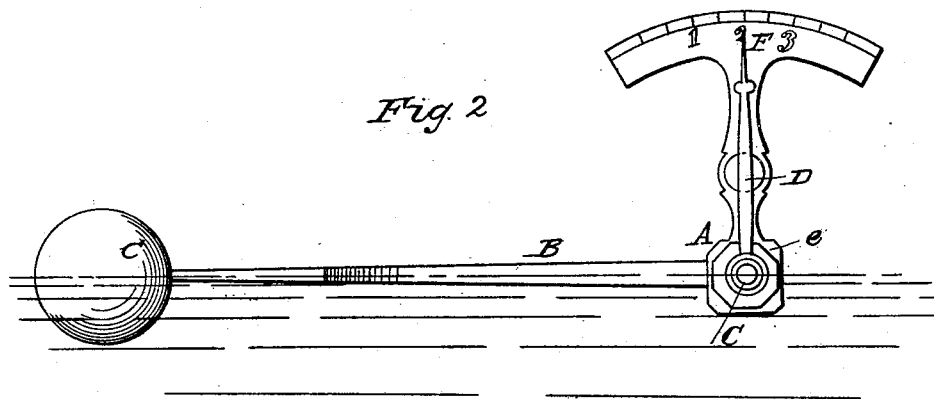


M. M. ROBINSON.

Gage Lock for Steam Generators.

No. 53,344.

Patented March 20, 1866.



Witnesses
Wm. Brown
Theo. Fusch

Inventor
M. M. Robinson
By Munn & Co
Attys

UNITED STATES PATENT OFFICE.

MARCUS M. ROBINSON, OF DANGOLA, ILLINOIS.

IMPROVEMENT IN GAGE-COCKS FOR STEAM-GENERATORS.

Specification forming part of Letters Patent No. 53,344, dated March 20, 1866.

To all whom it may concern:

Be it known that I, M. M. ROBINSON, of Dangola, in the county of Union and State of Illinois, have invented a new and Improved Water-Gage and Gage-Cock; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal central section of this invention. Fig. 2 is a front elevation of the same.

Similar letters of reference indicate like parts.

This invention relates to a gage-cock which is bored out through its longitudinal center to receive the stem of a valve that is made to fit in a seat in the inner end of the cock. From the inner end of the valve-stem and at right angles therefrom, or nearly so, extends an arm with a float on its end, and on the outer end of said valve-stem is mounted an index which traverses over an adjustable scale secured to the outer end of the cock. By forcing the valve-stem in the valve is opened and the gage-cock is put in operation, and by the action of the float and index, in combination with the scale, the height of the water in the boiler can be ascertained at any moment, said scale being made adjustable so that it can be accommodated to the position of the cock and of the float.

A represents a gage-cock, which is provided with a seat, *a*, on its inner end to receive a

valve, *b*, on the inner end of a stem, *c*, which extends through the entire length of the cock and somewhat beyond it, as shown in Fig. 1. When the stem is forced in the valve *b* is thrown out of its seat and water or steam discharges through the nozzle *d* of the cock.

From the inner end of the valve-stem and at right angles to the same, or nearly so, extends an arm, *B*, which carries a float, *C*, of copper or other suitable material, and on the outer end of said stem is mounted an index-hand, *D*, which traverses over a segmental scale, *E*, secured to the outer end of the gage-cock. This scale is held in position by a nut, *e*, and by releasing said nut it can be adjusted in any desired position, according to the position of the gage-cock and of the index-hand. By the combined action of the float, index, and scale the level of the water in the boiler can be ascertained at any moment and without touching the cock, and a water-gage is obtained which is correct in its operation and which is not liable to get out of order; and furthermore, the mechanism of the gage does not interfere with the operation of the gage-cock.

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

The combination of the gage-cock *A*, valve *b*, arm *B*, float *C*, index-hand *D*, and adjustable scale *E*, substantially as and for the purpose specified.

MARCUS M. ROBINSON.

Witnesses:

E. LEAVENWORTH,
GEO. LITTLE.