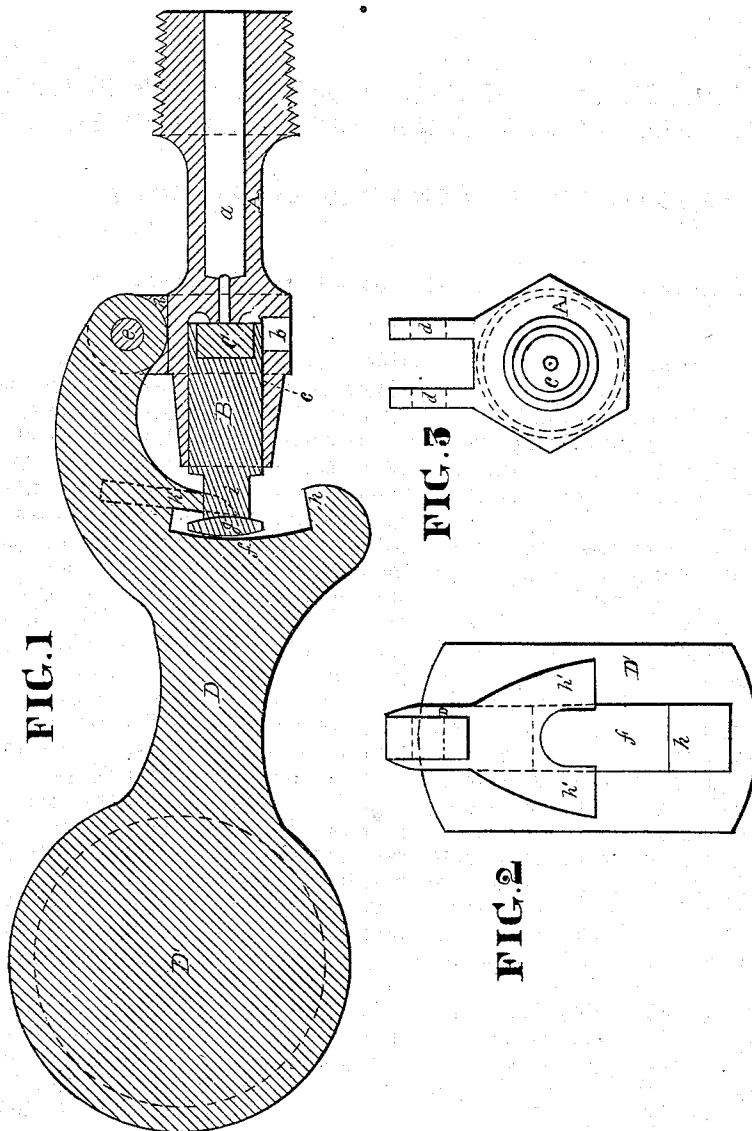


S. P. M. TASKER & W. H. McMILLAN.

Weighted Gage-Cocks.

No. 137,259.

Patented March 25, 1873.



WITNESSES

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INVENTORS

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UNITED STATES PATENT OFFICE.

STEPHEN P. M. TASKER AND WILLIAM H. McMILLAN, OF PHILADELPHIA,
PENNSYLVANIA, ASSIGNOR TO MORRIS, TASKER & CO., OF SAME PLACE.

IMPROVEMENT IN WEIGHTED GAGE-COCKS.

Specification forming part of Letters Patent No. 137,259, dated March 25, 1873.

To all whom it may concern:

Be it known that we, STEPHEN P. M. TASKER and WILLIAM H. McMILLAN, of the city of Philadelphia, in the State of Pennsylvania, have invented certain Improvements in Weighted Gage-Cocks, of which the following is a specification:

Our invention, in the first place, relates to providing the weighted lever with a lip at its inner end, which bears against the head of the valve-stem to arrest the upward movement of the lever as soon as the valve has receded back of the discharge-opening. In the second place it relates to a bifurcated hook, which partly surrounds a neck of the valve-stem, and as the lever is elevated by the operation draws the valve from its seat if it should happen to stick and the pressure of steam should not be sufficient to remove it.

Figure 1 is a longitudinal vertical section of the improved gage-cock. Fig. 2 is an end view of the weighted lever D. Fig. 3 is an end view of the body of the cock.

Like letters in all the figures indicate the same parts.

A is the body of the cock, which has a central steam-passage, *a*, and an outlet-opening, *b*. B is a cylindrical valve, which slides in a corresponding bore, *c*, of the body A. It is provided with an elastic plug, C. D is a lever, hung between the cheeks *d d* of the body A on the fulcrum-pin *e*. There is an enlargement, *D'*, at the outer end of the lever, of suit-

able weight for closing the valve as the surface *f* on the inner end of the lever bears against the head *g* of the valve. The lever is provided with a lip, *h*, at such a distance below the head *g*, when it is in its downward position, as seen in Fig. 1, that it shall strike against the head when the valve has been withdrawn far enough from its seat to open the outlet-opening *b*, and thus to regulate the motion of the valve to its requisite extent and prevent it being blown out by the steam. The lever is also provided with a bifurcated hook, *h'*, which partly surrounds the neck *i* of the valve, so that when it is elevated by the operator the hook shall draw the valve away from its seat if it should happen to stick.

We claim as our invention—

1. The combination of the valve B with the lip *h* on the inner end of the lever D for arresting its upward movement, in the manner and for the purpose set forth.

2. The combination of the valve B and the bifurcated hooks *h* on the lever D, for drawing the valve from its seat, substantially as specified.

3. The combination of the body A, the cylindrical valve B, and a weighted lever with the lip *h* and hook *h'*, substantially as described.

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Witnesses:

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