

(No Model.)

M. W. SEWALL.
GAGE COCK.

No. 535,123.

Patented Mar. 5, 1895.

Fig. 1-

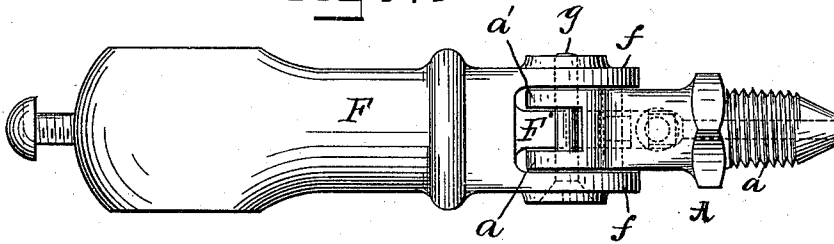


Fig. 2-

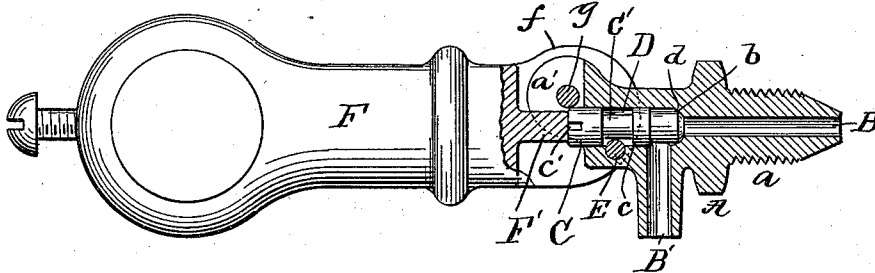
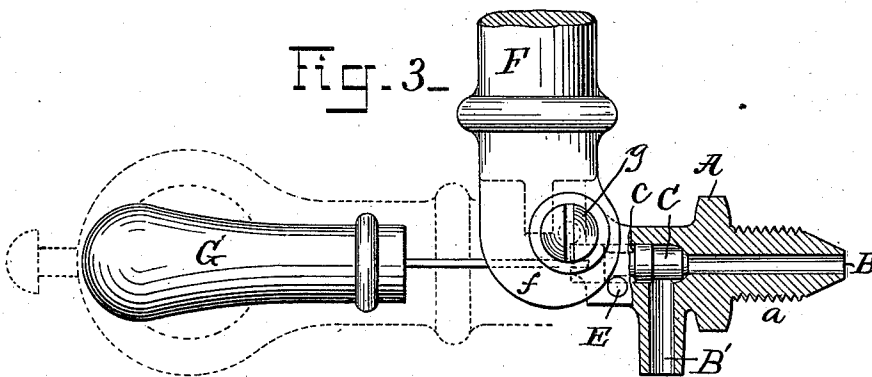


Fig. 3-



WITNESSES:

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GAGE-COCK.

SPECIFICATION forming part of Letters Patent No. 535,123, dated March 5, 1895.

Application filed March 31, 1894. Serial No. 505,902. (No model.)

To all whom it may concern:

Be it known that I, MINOTT W. SEWALL, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Gage-Cocks, of which the following is a specification.

The improvements relate particularly to cocks used on steam boilers, or other reservoirs containing liquid under pressure, to gage the height of the liquid in such reservoirs; and the invention consists in so constructing and arranging the lever of the cock that, when in normal position, it will prevent from displacement the pin or means which retain the valve in the cock, and when the lever is in another position such pin or means will be uncovered so as to admit of ready removal, to allow the valve to be taken out.

It also consists in so constructing the valve that, without removing it from the cock it can be ground on its seat, all as hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a top view of a cock embodying the improvements. Fig. 2 shows a vertical, longitudinal section of the same, on line X X of Fig. 1, the lever being shown partially in section. Fig. 3 represents the cock partly in vertical, longitudinal section, with the lever in two positions, and an instrument applied to the valve to grind the same on its seat.

A denotes the body of the cock, which is shown as threaded at *a*, that it may be screwed into place, and is furnished with the usual discharge passages B B'. The inner end of the threaded portion *a* is shown as beveled, but this feature forms no part of my invention. The valve C, which is cylindrical, is located in a chamber D, forming an enlarged extension of the passage B, and has its forward end *d* beveled to fit the beveled seat *b*. At C' the valve is reduced in diameter so as to produce a shoulder *c*, and a transverse pin E passes through the body in such relation to the shoulder *c* as to retain the valve in the cock, and prevent the valve from being blown out when the cock is opened.

The lever or handle F is provided with cheek-pieces *f* that fork the body and are

pivoted to ears *a'* thereon by a transverse pin *g*; and the lever is furnished with a lug or nose F' which engages the valve when the lever passes to its normal position, closes the valve and retains it in a closed position, the weight of the handle being made sufficient for such purpose.

The cheek-pieces *f* are rounded on their ends, and cover the ends of the pin E when the lever is down, as shown in Fig. 2, thereby preventing a displacement of the pin. The pivotal pin *g* passes through the cheek-pieces eccentric to their rounded ends, so that, when the lever is raised the ends of the pin E will be uncovered and exposed, as shown in Fig. 3, thereby allowing the pin to be driven out, so that the valve can be removed from its chamber, when desired. The pin *g* is located above the valve C, so as not to prevent a withdrawal of the latter, and so that, when the lever is raised the nose F' thereon will swing rearwardly and upwardly out of engagement with the valve, thereby allowing the steam pressure to force the valve back to open the cock, and to enable the valve to be drawn out without disengaging the handle from the cock.

To allow the valve to be ground on its seat, the rear end of the valve is furnished with a slot *c'*, Fig. 2, to receive a screw-driver G, Fig. 3, or said end of the valve is suitably shaped to receive a wrench or other turning instrument, by which the valve can be rotated and ground on its seat, under pressure, without any interference by the lever F, force enough being applied to overcome the steam pressure during the operation.

It is obvious that the ends of the cheek-pieces *f* need not necessarily be rounded, but that they may have any suitable form to cover the ends of the pin E (if it be not headed, or to cover one end if it be headed) when the lever is in normal position, and to uncover the end, or ends of the pin when the lever is raised.

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

1. A cock having a valve; means for retaining the valve in the cock when the same is open; and a lever which holds the valve closed,

and which covers the said means when in one position and uncovers the same when in another position, substantially as set forth.

2. A cock having a valve seated therein
5 with that end farthest from its seat formed to receive an instrument to rotate the valve on its seat; means for retaining the valve in the cock when the same is open; and a lever
10 which holds the valve closed and covers said means when in normal position, and disen-

gages the valve and uncovers said means when swung, whereby the said means may be removed or the valve can be rotated by a turning instrument, when the lever is in the latter position, substantially as set forth.

MINOTT W. SEWALL.

Witnesses:

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T. H. WATSON.