

(No Model.)

G. L. SAVAGE.
FAUCET OR VALVE.

No. 533,671.

Patented Feb. 5, 1895.

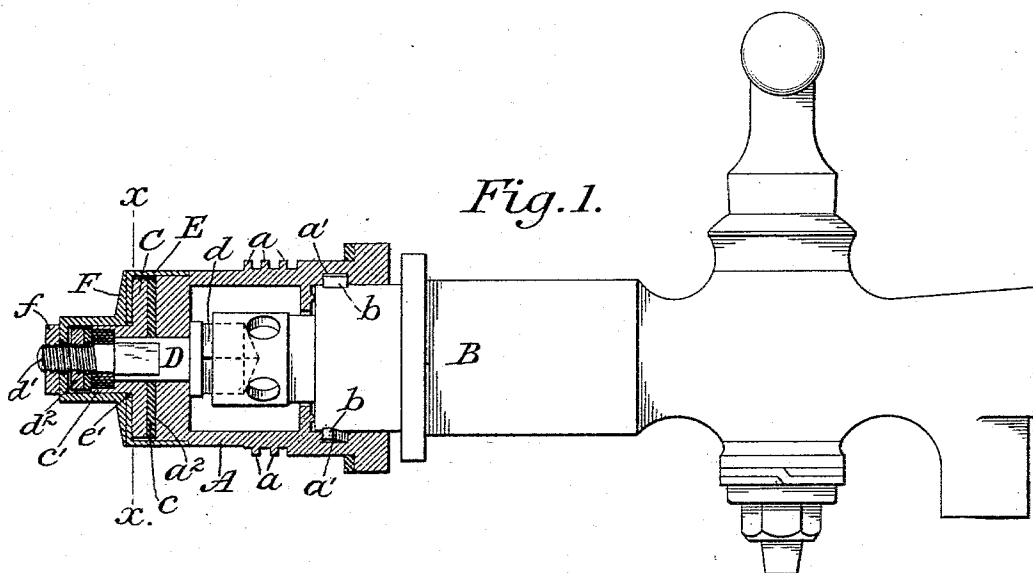


Fig. 2.

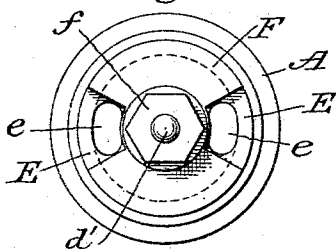


Fig. 4.

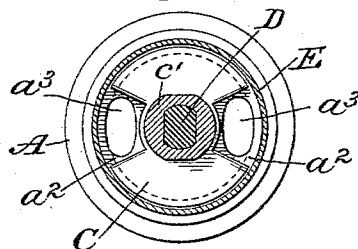


Fig. 3.

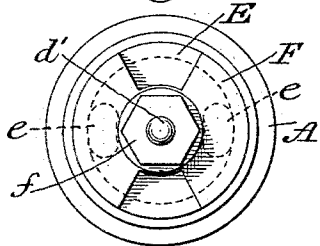
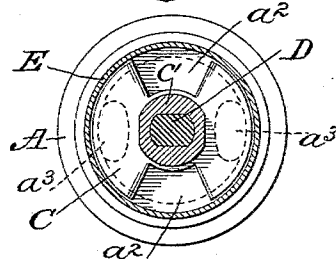


Fig. 5.



Attest:

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Inventor:

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UNITED STATES PATENT OFFICE.

GRANVILLE L. SAVAGE, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO
WILLIAM C. SAVAGE, OF SAME PLACE.

FAUCET OR VALVE.

SPECIFICATION forming part of Letters Patent No. 533,671, dated February 5, 1895.

Application filed November 14, 1894. Serial No. 528,720. (No model.)

To all whom it may concern:

Be it known that I, GRANVILLE L. SAVAGE, of the city, county, and State of New York, have invented certain new and useful Improvements in Faucets or Valves; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

This invention relates to safety faucets or taps of the general character of that represented in Letters Patent of the United States No. 449,513. The faucet described in said Letters Patent has proved satisfactory in the varied uses to which it has been subjected and the object of this invention is not to alter its construction but to add to it a feature or features to guard against a possible difficulty that might arise. The faucet is used very largely in lager beer barrels which, as is well known, are coated inside from time to time with hot pitch or other material. The faucet might be removed during the operation of pitching or coating and be replaced by a protecting sleeve which has been devised for the purpose, but if it is not removed it is possible that the gate or valve of the faucet might be clogged by the pitch or other coating material which adheres to the seat upon which the gate or valve moves. As it is sometimes undesirable to remove the bushings while pitching or coating the barrels it has been sought in the present invention to devise means whereby any interference with the proper action of the faucet by the pitch or coating material may be prevented entirely, and in accordance with the invention a protector has been arranged to cover the otherwise exposed portions of the valve seat when the valve or gate is closed. Provision has also been made whereby the possible filling of the ports in the cap or protector may be prevented.

In the accompanying drawings: Figure 1 is a view representing in longitudinal section the usual bushing with the protecting devices added and representing the usual filling key or faucet proper in elevation. Figs. 2 and 3 are end views of the improved bushing, respectively showing the valve open and closed.

Fig. 4 is a section on the line $x-x$ of Fig. 1, looking toward the right, the valve being represented as open. Fig. 5 is a similar section but with the valve represented as closed.

The bushing A may be of any usual or preferred construction and is represented as having screw-threads a to engage a thimble fixed in the head or stave of the barrel and as having grooves a' , a' , for engagement with the lugs b , b , of the key or faucet B, substantially as in the manner disclosed in the Letters Patent above referred to. The inner end a^2 is formed with inlet ports a^3 , a^3 , and is also made smooth to form a seat for the valve or gate C. The latter is carried by a spindle D which passes through a central aperture in the end of the bushing A and within the bushing has a suitably shaped head d for engagement with the key or faucet B. The spindle D has a screw-threaded extension d' to receive a nut d^2 which firmly secures the spindle D and gate or valve C together. As usual, the valve C may be provided upon its working face with a composition or other suitable packing c .

By an examination of Fig. 5 of the drawings it will be apparent that without other protection those portions of the valve seat a^2 which are not covered by the valve or gate C when the ports are closed are liable to become covered, during the pitching operation, with pitch which will adhere very closely when cold and will not be scraped off readily by the packing c which it is desirable to interpose between the gate and its seat.

In order to overcome the difficulty just mentioned I have provided a cap or cover E which is fitted upon the end of the bushing A and is provided with ports e , e , in line with the ports a^3 , a^3 , through the end of the bushing, and has also a central aperture as at e' to receive the hub of the gate C. The cap fits snugly against the rear face of the gate C so that the latter works between the cap and the end of the bushing. When the valve is closed the wings of the gate obstruct the ports through the end of the bushing and through the cap while the intermediate spaces are lightly covered by the cap and access of the coating material to the valve seat a^2 is thereby prevented. Such coating material as might

harden and adhere upon the portions of the rear face of the gate which are exposed through the ports in the cap would be scraped off by the sharp edges of such ports themselves when the valve is first opened.

There is, of course, a possibility that the ports through the cap, if exposed during the pitching or coating, might become filled with the coating material which would remain in place, closing the ports. To guard against such possibility I may apply outside of the cap a secondary gate or scraper F which is fitted upon the hub *c'* of the gate C so as to rotate therewith and is held in place by a nut *f* upon the screw-threaded extension *d'* of the spindle D. This secondary gate F covers the ports *e, e'* in the cap E so that they cannot become filled with the coating material and, having sharp edges, will readily scrape off such coating material as may adhere to the exposed face of the cap.

It will be understood that the provision of the secondary gate F is not a necessity but is supplied as an additional preventive against interference with the proper operation of the valve.

I claim as my invention—

1. The combination with a bushing having a valve seat upon the exterior of its inner end and having ports through said end, a spindle passing through the end of said bushing, and a valve or gate working upon said valve seat and adapted to open or close said ports, said valve or gate being carried by said spindle, of a cap fixed to said bushing to cover and inclose said gate or valve and fitting snugly upon the rear face of said gate or valve, said

cap having ports in line with the ports in the bushing, substantially as shown and described.

2. The combination with a bushing, a spindle and a gate or valve carried by said spindle to rotate upon the exterior of said bushing, of a cap fixed to said bushing to cover and inclose said valve, and fitting snugly upon the rear face of said gate or valve, said cap having ports to be opened or closed by said valve, and a secondary gate or valve working upon the rear face of said cap and connected to said valve to move therewith, whereby when the ports through the cap are closed by the first named gate or valve they are also covered by the secondary gate or valve, substantially as shown and described.

3. The combination with a bushing having a valve seat upon its inner end and having ports through said end, and a valve or gate working upon said valve seat and adapted to open or close said ports, of a cap secured to said bushing and fitting snugly upon the rear face of said gate or valve, said cap having ports in line with the ports in the bushing and a secondary gate or valve working upon the rear face of said cap and connected to the first named gate or valve to move therewith, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GRANVILLE L. SAVAGE.

Witnesses:

W. B. GREELEY,
A. N. JESBERA.