(No Model.)

J. F. BOGAN.

FAUCET.

No. 339,133. Patented Apr. 6, 1886.

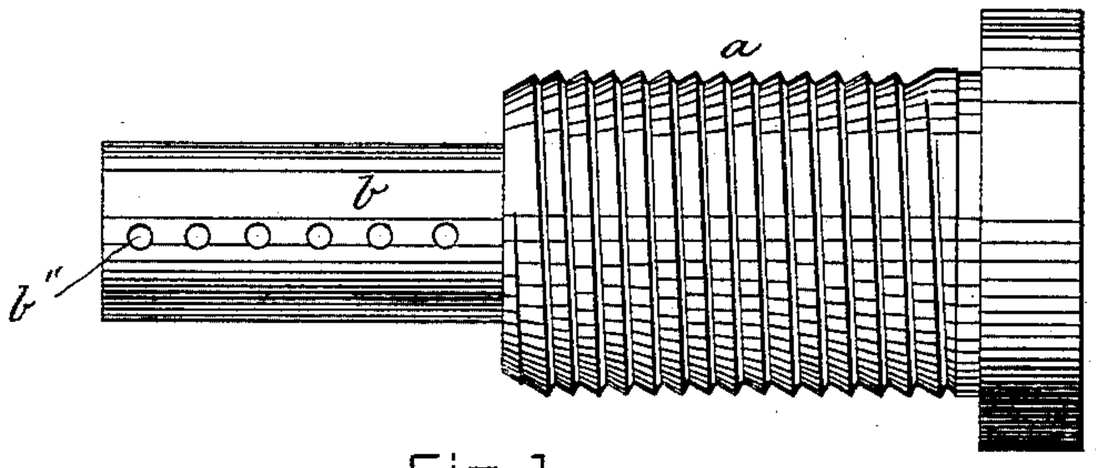

Fig. 1.

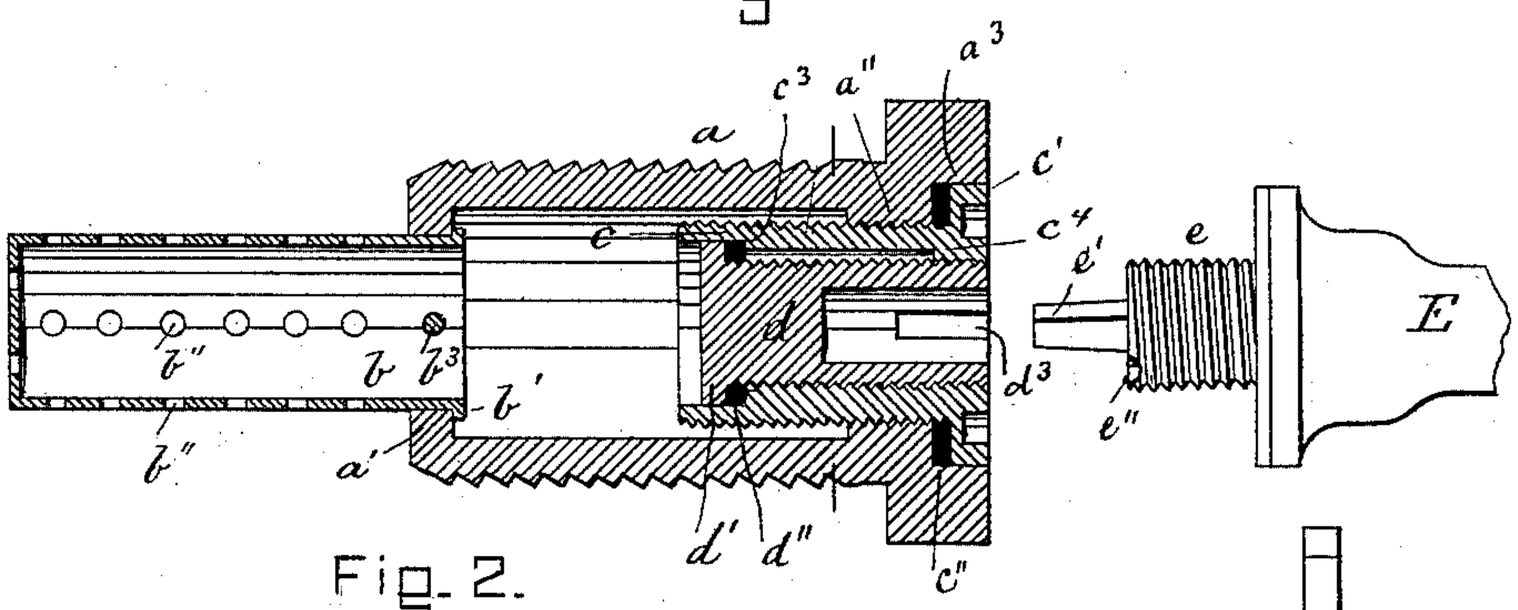

Fig. 2.

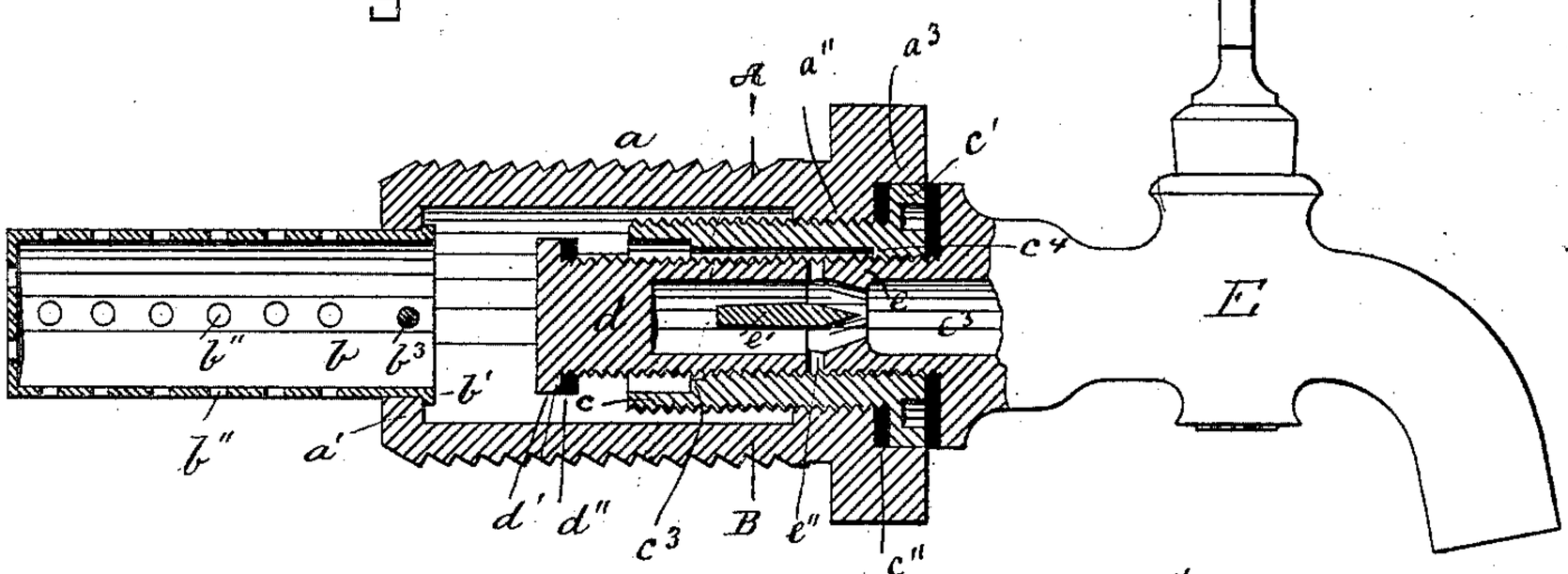

Fig. 3.

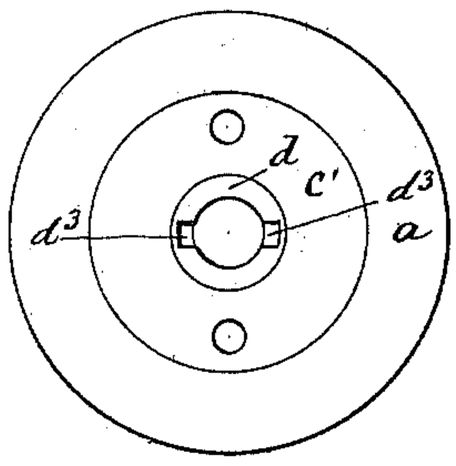

Fig. 4.

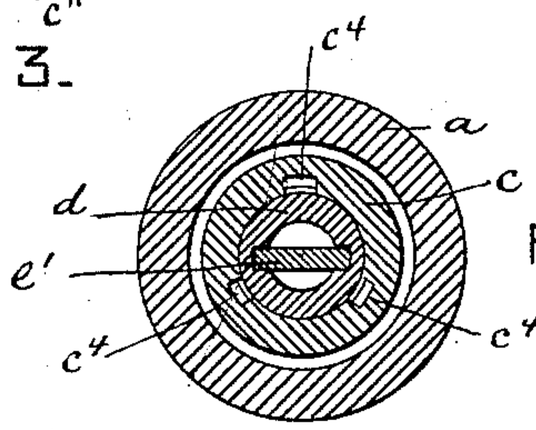

Fig. 5.

WITNESSES.

Charles H. Fogg.

Henry Chadbourn.

INVENTOR.

James F. Bogan

by Albert Andrews

his atty.

UNITED STATES PATENT OFFICE.

JAMES F. BOGAN, OF EAST BOSTON, MASSACHUSETTS.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 339,133, dated April 6, 1886.

Application filed May 22, 1885. Serial No. 166,342. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. BOGAN, a citizen of the United States, residing at East Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Faucets; and I do hereby declare that the same are fully described in the following specification, and illustrated in the accompanying drawings.

This invention relates to improvements in faucets of that kind which are adapted to remain permanently in the tapping-hole of a barrel, tank, or other receptacle for the liquid, as may be desired, during transportation of such receptacles, and thus to prevent driving in the plug of the tapping-hole and injury to the barrel-head, which is the case where no such permanently-retained faucets are used.

The invention is carried out as follows, reference being had to the accompanying drawings, where Figure 1 represents a side elevation, and Fig. 2 represents a central longitudinal section, of the improved faucet shown as closed. Fig. 3 represents a longitudinal section of the device open for use. Fig. 4 represents a front elevation, and Fig. 5 represents a cross-section on the line A B, shown in Fig. 3.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a represents the metal shell having an exterior screw-thread, and adapted to be screwed through a perforation in the barrel head or tank, as usual. Said shell has in its rear end an inwardly-projecting annular lip, *a'*, (shown in Figs. 2 and 3,) serving as a stop or rest for the exterior flange, *b'*, on the perforated strainer-sleeve *b*, that is inserted from the open front end of sleeve *a* before its valve sleeve and plug are placed in position.

b'' b'' are perforations in the strainer-sleeve *b*, as shown in Figs. 1, 2, and 3, to prevent sediment or floating particles from passing into shell *a*.

The strainer *b* is prevented from being pushed entirely through shell *a* by the strainer-flange *b'* coming to a stop against the annular projection *a'*, as shown in Figs. 2 and 3.

The strainer *b* is detachable from shell *a*, and has for this purpose in its inner open end a lateral bar or wire, b^3, (shown in Figs. 2 and 3,) by means of which and a suitable hook or tool it may be pulled out through the open front end of sleeve *a*, after the valve sleeve and plug have been removed, so as to cleanse the said strainer in case it should become clogged up. Near its outer end the sleeve *a* is provided with an interior screw-thread, *a''*, into which is screwed the screw-threaded valve-sleeve *c*, having in its outer end a flange, *c'*, fitting in a recess, a^3, in the outer end of sleeve *a*, as shown in Figs. 2 and 3.

c'' is a suitable packing interposed between flange *c'* and bottom of recess a^3, to effect a water-tight joint at this place.

The screw-threaded valve-sleeve *c* is furthermore provided with an interior screw-thread, in which is fitted the screw-threaded valve-plug *d*, having a valve, *d'*, and packing *d''*, adapted to rest against the valve-seat c^3 in the bored-out rear end of valve-sleeve *c* when the faucet is in a closed position, as shown in Fig. 2.

The interior surface of the valve-sleeve *c* is provided with a number of longitudinal recesses or channels, c^4 c^4 c^4, (shown in Figs. 2, 3, and 5,) to permit the liquid to be conducted to the cock E when the valve-plug *d* is in an open position, as shown in Fig. 3.

e is the hollow screw-threaded shank on cock E, as usual, the thread on said shank being made of equal pitch and diameter as the interior screw-thread in valve-sleeve *c*.

e' is a screw-driver-like projection secured to end of shank *e*, and is adapted to fit into the recess or recesses d^3 d^3 in the outer end of valve-plug *d*, as shown in the drawings.

e'' e'' are notches or channels in the end of shank *e*, communicating with the central delivery-way, e^3, in the cock E, as shown in Fig. 3, when the latter is connected to the valve-sleeve *c*, as shown in Fig. 3.

We will suppose that the cock E is removed and the faucet closed, as shown in Fig. 2. If it is now desired to connect the cock E and at the same time establish communication from the barrel to the cock E, I proceed as follows: The projection *e'* on the end of screw-threaded shank *e* of the cock E is inserted in the notches d^3 d^3 in the outer end of plug *d*. If, now, the cock E is turned to the right it will cause the plug *d* to turn and be screwed backward at the same time as the shank *e* is screwed into the outer end of the stationary valve-sleeve *c*, and when the packing *d''* has passed by the rear

end of valve-sleeve *c* the liquid in the barrel or tank is free to flow through perforations *b''* into strainer *b*, thence into sleeve *a* and into the rear open end of valve-sleeve *c*, then passing through the longitudinal recesses c^4 c^4 c^4 on the interior of sleeve *c*, and through recesses *e''* *e''* into the central passage, e^3, of the cock E. By turning the cock E in an opposite direction, the plug *d* is screwed forward until its packing *d''* is forced against the seat c^3, by which all communication from inside to outside of barrel is closed at or about the same time as the cock E is unscrewed from valve-sleeve *c*.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent and claim—

1. In a faucet, the outer shell, *a*, having rear inwardly-projecting flange, *a'*, in combination with the detachable perforated strainer *b*, having flange *b'* and cross-bar b^3, as and for the purpose set forth.

2. In a faucet, the outer shell, *a*, having annular flange or lip *a'*, for the support of the detachable perforated strainer *b*, in combination with the screw-threaded valve-shell *c*, having valve-seat c^3, and the longitudinal passages c^4 c^4 c^4, and screw-threaded adjustable valve-plug *d*, having the valve *d'* and packing *d''* in its inner end, and recesses d^3 d^3 in its front end adapted to receive the projection *e'* on cock E, substantially in a manner and for the purpose set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

JAMES F. BOGAN.

Witnesses:
ALBAN ANDRÉN,
GEO. E. MARVIN.