

(No Model.)

C. J. REYNOLDS.
FAUCET.

No. 467,560.

Patented Jan. 26, 1892.

Fig. 1.

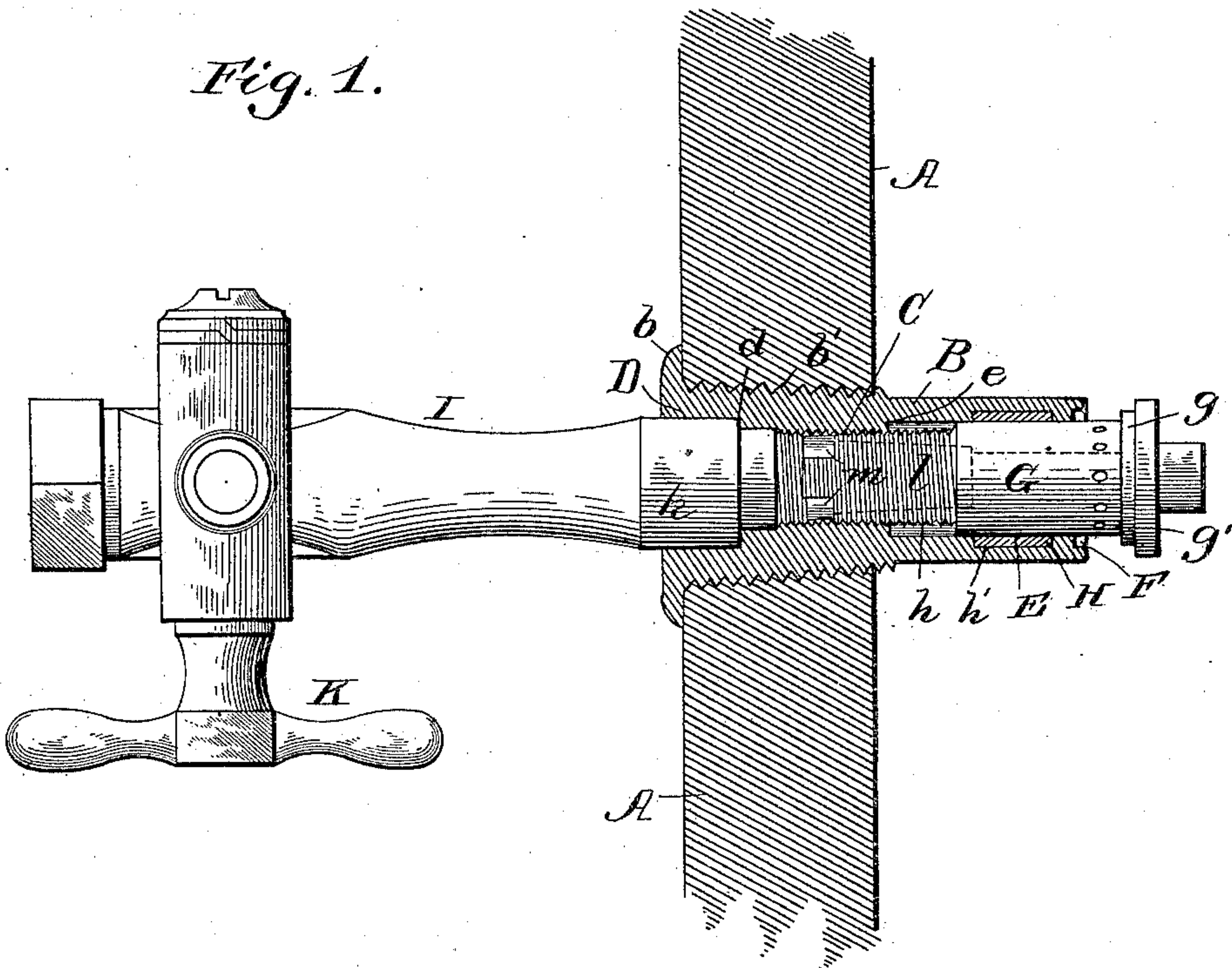


Fig. 2.

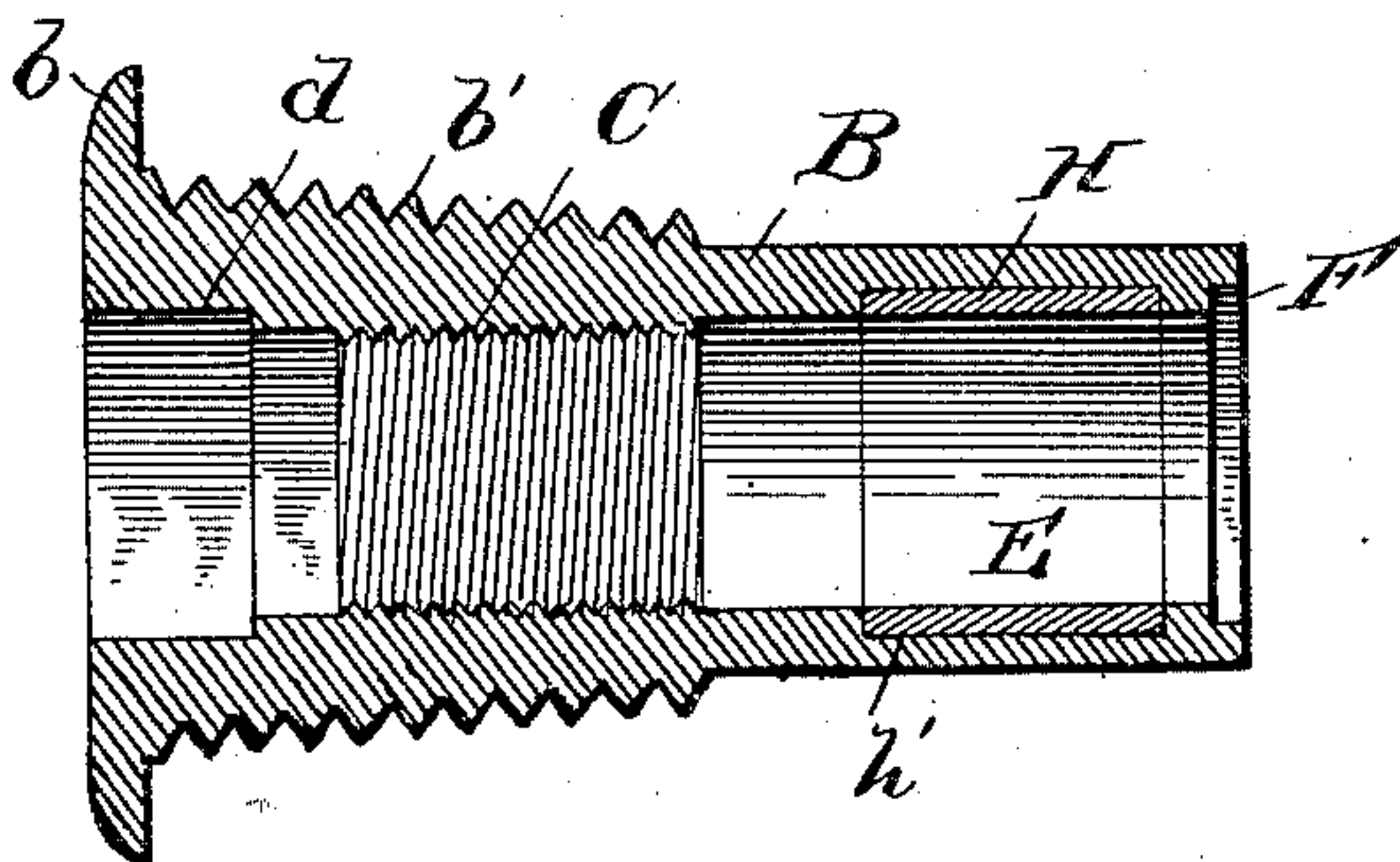
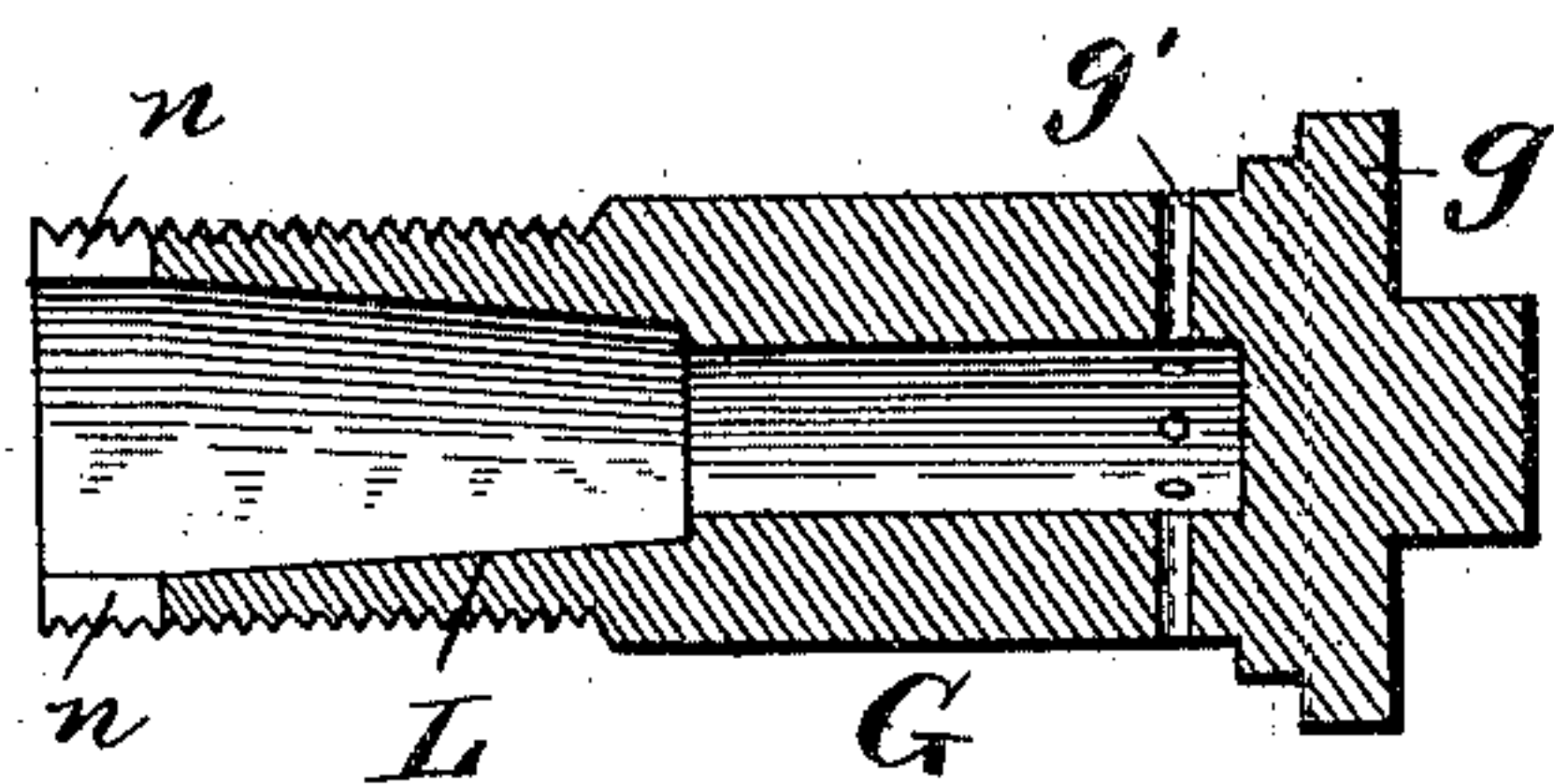


Fig. 3.



Witnesses:

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Inventor

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By his Attorneys,
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UNITED STATES PATENT OFFICE.

CHARLES J. REYNOLDS, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO W. A. MACDONALD, OF SAME PLACE.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 467,560, dated January 26, 1892.

Application filed August 25, 1891. Serial No. 403,660. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. REYNOLDS, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Beer-Faucets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in beer-faucets; and the objects of my invention are, first, to provide a simple and inexpensive faucet which can be easily and readily fitted in or removed from a cask or barrel, and, secondly, to provide a faucet which will effectually prevent the escape of gas from the cask or barrel and the consequent deterioration of the beer.

With these ends in view my invention consists in the combination, with a bushing secured in the wall of a cask or barrel and provided on its interior with ground joints or surfaces at both ends and with an intermediate threaded portion, of a valve-plug fitted in the bushing and provided with a smooth cylindrical portion which fits closely against the ground-surface at the rear of the bushing and having its forward portion threaded and engaging the threaded portion of the bushing, and a spigot or faucet provided with a smooth cylindrical portion which fits against the ground-surface at the forward end of the bushing, a tapering stem which fits in a suitable socket in the valve-plug, and means for effecting a close connection between itself and the valve-plug.

My invention further consists in the peculiar construction and arrangement of parts, as will be hereinafter more fully described and claimed.

To enable others to more readily understand my improvements, I have illustrated the same in the accompanying drawings, in which—

Figure 1 is a view, partially in section, of a faucet constructed in accordance with my invention. Fig. 2 is a detail view of the bushing, and Fig. 3 is a detail view of the valve-plug.

Like letters of reference denote corresponding parts in the several figures of the drawings, referring to which—

A designates the end of a cask or barrel, in which is fitted a bushing B, provided with a projection or outwardly-extending face-plate *b*, which fits closely against the outer side of the wall A and is provided on its outer side with a threaded portion *b'* of sufficient length to enable the bushing to be tightly screwed into the cask. The interior of the bushing is formed with a central threaded portion C, and with ground joints or surfaces D E at its ends. The ground-joint D at the forward end of the bushing is comparatively short, and shoulders *d e* are formed between the ground portions of the bushing and the central threaded portion thereof. In the rear end of the bushing B is formed an annular groove or seat F. A valve-plug G is fitted within the bushing and is provided at its rear end with a double-shouldered head or valve *g*, which is adapted to be seated in the seat F and against the rear or inner end of the bushing. The plug G has its exterior surface made smooth for some distance, and this smooth portion contacts closely with the ground joint or surface E of the bushing, while the forward end of the plug is threaded, as at *h*, and such threaded portion engages with the threaded portion C of the bushing. Near the rear end of the plug G are formed a series of apertures or openings *g'*, which extend from the outer surface of the plug to the central longitudinal passage therein. (Shown in dotted lines in Fig. 1.)

If desired, a suitable packing H may be placed in a channel or groove *h'*, formed in the smooth portion E of the bushing.

I designates the faucet, which is provided with a plug or key K, and said faucet is also provided with a smooth cylindrical portion *k*, which fits closely against the ground joint or surface D of the bushing.

The inner end of the faucet is tapered, as at *l*, and this tapered portion fits in a socket L, formed in the valve-plug G, said plug and faucet being tightly locked together by means of lugs *m*, which fit in suitable notches or recesses *n* in the forward end of the plug G. The faucet I is also provided with a short threaded portion *o*, which engages with the threads in the bushing.

In using my improved faucet it is inserted

in the bushing, its tapering end *l* fitting in the socket in the valve-plug and the lugs *m* and recesses *n* holding said plug and faucet together. By turning the faucet the plug
5 *G* is forced rearwardly until the openings *g'* near the inner end thereof are exposed, through which the beer passes into the plug, and from thence out through the faucet. The
10 ground joint or surface *E* within the bushing and the smooth portion of the plug *G* are of such length that when the openings *g'* are exposed there is still a tight joint between the plug and bushing.

One of the advantages of my improvements
15 is the close joint formed between the plug and bushing, which renders it absolutely impossible for any gas to pass from the interior of the cask between the plug and bushing, as is the case when the bushing and plug are threaded
20 continuously throughout their length.

I am aware that changes in the form and proportion of parts and details of construction of the devices herein shown and described as an embodiment of my invention can be made

without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as fairly fall within the scope of my invention. 25

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 30

The combination, with a bushing having the interior ground portion at its ends and the intermediate threaded portion, of the 35 valve-plug fitted in said bushing, and the faucet fitted in the bushing and provided with the tapering stem, which fits in a socket formed in the valve-plug and, with the lugs, which fit in notches or recesses in one end of 40 said plug, substantially as shown and described.

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

CHARLES J. REYNOLDS.

Witnesses:

W. A. MACDONALD,
EDWARD J. JONES.