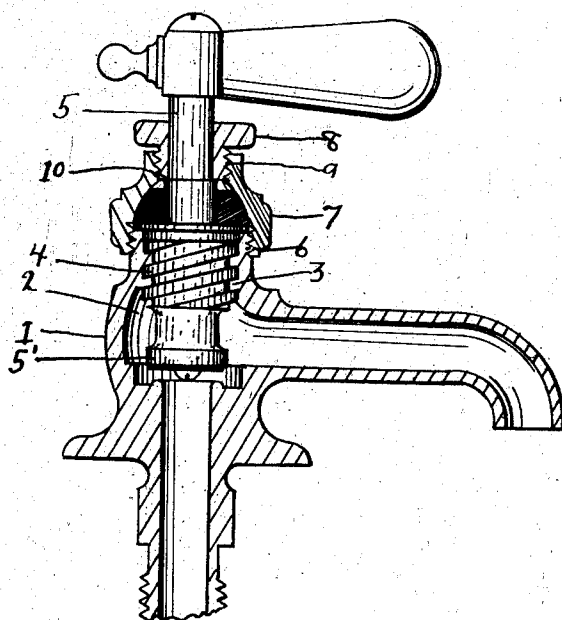


A. J. GORLICK.
FAUCET AND BIB COCK.
APPLICATION FILED SEPT. 22, 1910.

1,022,071.

Patented Apr. 2, 1912.



WITNESSES

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UNITED STATES PATENT OFFICE.

ANDREW J. GORLICK, OF CLEVELAND, OHIO, ASSIGNOR TO THE RICKERSBERG BRASS COMPANY, A CORPORATION OF OHIO.

FAUCET AND BIB-COCK.

1,022,071.

Specification of Letters Patent.

Patented Apr. 2, 1912.

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To all whom it may concern:

Be it known that I, ANDREW J. GORLICK, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Faucets and Bib-Cocks; 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 pertains to make and use the same.

This invention relates to water cocks of the compression type or the compression bib type as known to the trade, the object being to construct a cock of this nature which will have all the advantages of the so-called "Fuller" bib cock, at the same time eliminating the disadvantages inherent in the construction of the "Fuller" bib type of cock. The "Fuller" bib type of cock has the advantage over the ordinary screw valve type of cock, in that in the "Fuller" bib type, all that is necessary is a fractional turn. At most a quarter turn opens the valve of the cock fully, while the reverse movement closes the valve fully.

The main object of this invention is, first to construct a valve having all the advantages of a fractional turn valve as above set forth while at the same time obviating, first, expense of construction, secondly pounding, and thirdly leakage of the valve.

This invention consists in a construction whereby a full opening of the valve is obtained through a quick acting elevating or opening medium, such as a quick acting screw, and with means for controlling the distance to which said opening can be made.

With the object in view of obviating the above difficulties, I will set forth my invention as applicable to a type of cock known as the basin cock, in which is shown the invention as will be hereinafter fully set forth and claimed.

In the accompanying drawings, the figure is a view of the basin cock showing the same in vertical section, which is taken through the body, cap and adjusting device of the cock, leaving the valve screw, stem and handle in elevation. This figure shows the valve open but it is easy to determine the closed condition from this figure.

As hereinbefore set forth, I have shown, and will set forth this invention as adapt-

ed for use as a basin or sink cock, but it is understood that it is immaterial so far as the features of the invention are concerned, as to what the construction, as related to the contour, or other features, may embody, or the analogous use to which this invention may be put.

1, represents the casing with its usual inlet and outlet valve chamber and valve seat. The valve chamber 2, is internally screw-threaded as at 3, for engaging an enlarged screw thread 4, on valve stem 5, whereby the valve 5', is raised or lowered to open position or closed position. The screw thread 3, and the thread 4, are preferably of such a pitch that the full opening of the valve will be obtained upon a quarter turn of the valve stem, and hence upon the return action or opposite action the valve will be closed. Inasmuch as it is necessary or preferable that a stop be employed or provided to determine the full opening position of the valve, and it being preferable that such stop be adjustable, I have provided the following construction which is the embodiment of this invention.

At its upper end the valve case is screw threaded as at 6, for the purpose of engaging the internal screw thread of the cap 7. This cap 7, is provided with the usual washer and packing, but is also provided with an adjustable stop piece 8, which is screw threaded as at 9, in the upper end of the cap piece. The adjustable stop piece 8, is made so as to tightly fit or screw fit into the upper portion of the cap as at 9, and so as to be adjusted up or down, or in or out relative to said cap 7. In order to provide means for adjusting or determining the open position of the valve through the medium of the valve stem 5, I have provided a shoulder 10, by reducing the upper end of the valve stem 5, and have fitted the stop 8, to said reduction, the fit being what is known as a sliding fit. Thus it will be seen that as the stop 8, is adjusted it controls the upward lift of the valve 5', which obviates the necessity of predetermining at the shop the thickness of the washer or the position of the rigid stop in other forms of valves, allowing the full flow of the water at some fractional turn of the valve. In some cases where the pressure is high, the opening of the valve 5', could be less than

a quarter turn, and where the pressure is less, more than a quarter turn may be allowed.

It will be seen from the above description taken in connection with the drawing, that such a construction as above set forth is one which is simple to make and is a cock in which a predetermined discharge can be obtained regardless of the pressure of the water. Thus when the delivery of the fluid is greater than is required or convenient, the extent to which the valve can be opened may be diminished. This is a feature that is of value especially in hotels and in other places and at the same time there is all the advantages of the quick acting delivery service.

In setting forth this invention as heretofore applied, I have shown and described it as connected with a basin cock, and have shown and described certain features of construction as I think them best adapted for their functions, but I do not wish to be limited to this construction, as it is obvious that

they may be varied or modified without affecting the gist of this invention.

What I claim is:

A device of the type set forth comprising a casing provided with an inlet, an outlet and a valve seat, a valve, controlling said inlet and outlet, a cap on the upper end of the casing having an upper contracted neck portion, a bushing screw threaded into said neck portion, a valve stem passing through said bushing for operating said valve, said valve stem having a shoulder thereon adapted to come into contact with the bushing to limit the outward movement of the stem, and a rubber ring within said cap surrounding said shoulder.

Signed at Cleveland in the county of Cuyahoga and State of Ohio this 6th day September 1910.

ANDREW J. GORLICK.

Witnesses:

JOHN J. DONNELLY,
FRANK C. GREGG.