J. A. NII.

FAUCET.

APPLICATION FILED NOV. 14, 1916.

1,226,575.

Patented May 15, 1917.

2 SHEETS—SHEET 1.

Fig. 1.

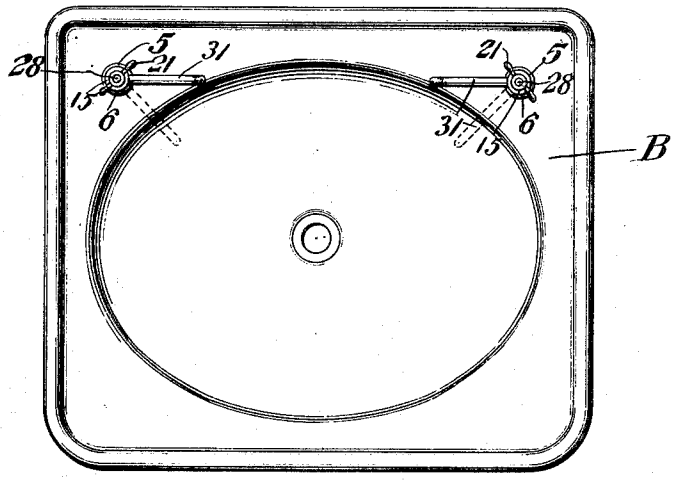


Fig. 3.

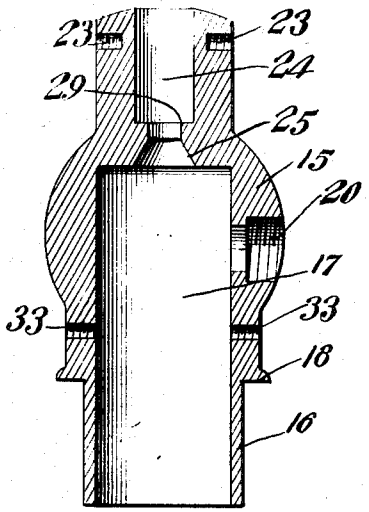
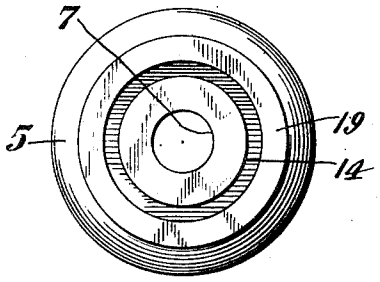


Fig. 5.



Witnesses

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2 SHEETS—SHEET 2.

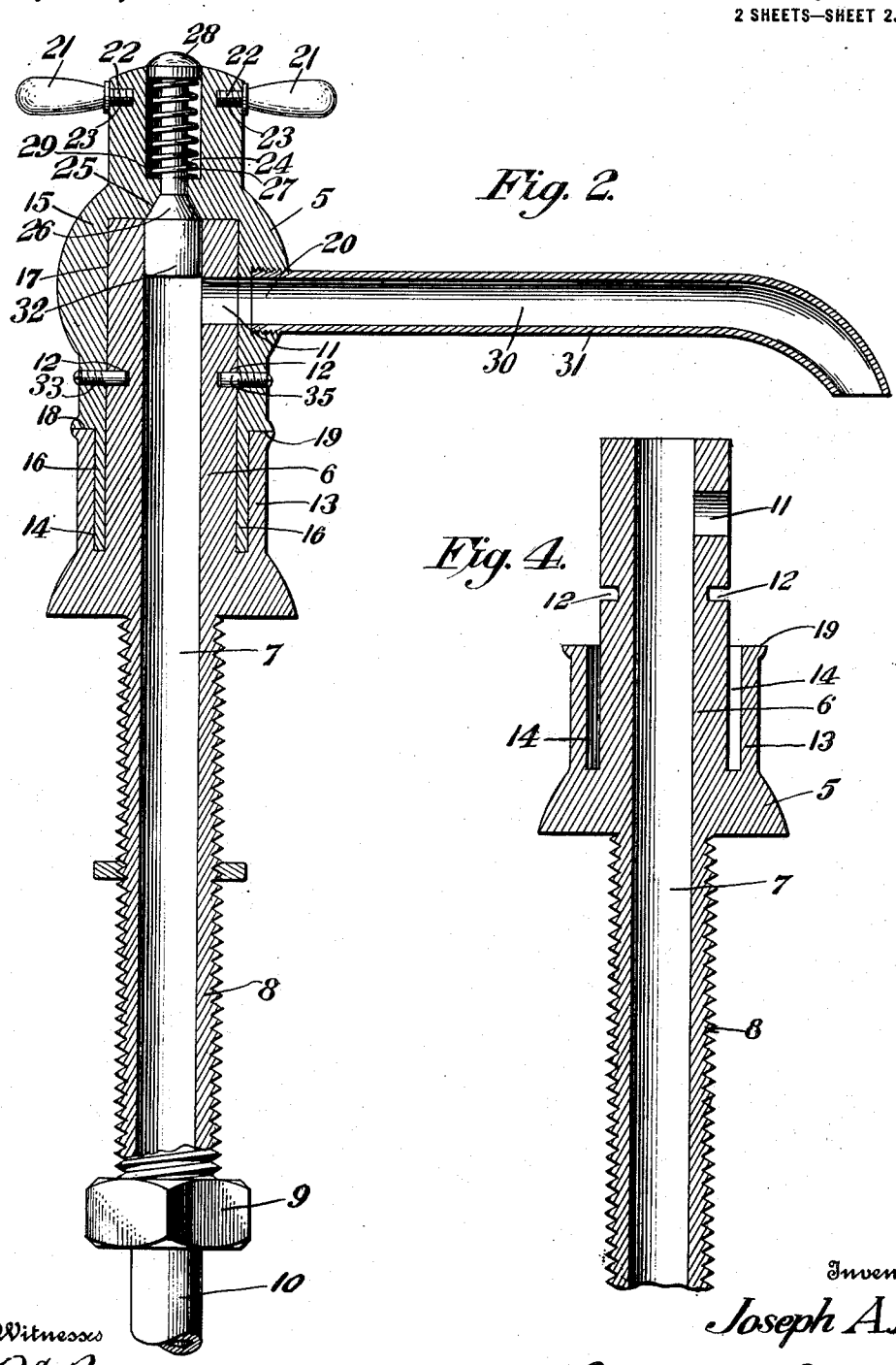


Fig. 2.

Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

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FAUCET.

1,226,575. Specification of Letters Patent. Patented May 15, 1917.

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To all whom it may concern:

Be it known that I, JOSEPH A. NII, a subject of the Emperor of Japan, residing at Sacramento, in the county of Sacramento and State of California, have invented new and useful Improvements in Faucets, of which the following is a specification.

The present invention relates to faucets, and has for an object to provide a faucet consisting of few and simple parts, and which may be quickly and conveniently operated to cut off the supply of water passing therethrough when the handle of the faucet used to open the same is released.

A further object of the invention resides in the provision of a faucet of the above stated character including means for rotatably connecting the spigots with the casing of the faucet, thus preventing the faucets from assuming an obstructing position with respect to the sinks or basins and preventing any accidental chipping or breaking of fragile articles, such as dishes, glassware, or the like, due to the contact of such articles with said spigots.

A still further object of the invention is the provision of a cap designed to permit of the spigots being connected therewith, whereby when the spigots are turned to assume a non-obstructing position, the water supply will be cut off.

The invention further embodies, among other features, a faucet which is simple in its operation and can not easily get out of order, and in which the operative parts can be readily removed for the purpose of renewing or repairing the parts of such faucet.

With the above and other objects in view, the invention consists in the novel features, details of construction and combination of parts which will hereinafter be more fully set forth, illustrated in the accompanying drawings and pointed out in the appended claims.

Figure 1 is a plan view showing a pair of faucets installed for use and illustrating the spigots turned to a non-obstructing position;

Fig. 2 is a vertical longitudinal section taken through one of the faucets and its parts;

Fig. 3 is a vertical longitudinal section taken through the cap;

Fig. 4 is a vertical longitudinal section taken through the body portion of the faucet; and

Fig. 5 is a top plan view of the same.

Referring more particularly to the accompanying drawings, and for the purpose of illustrating the operation of the faucet, I have shown the same as being installed in a wash basin B, but it is to be understood that the same may be installed or connected with sinks, stationary wash tubs, and other like fixtures. The faucet generally is denoted by the character 5, embodying a casing or body portion 6 having the usual inlet opening 7 and the exteriorly threaded tubular shank 8. Connected with the tubular shank 8 through the medium of the coupling nut 9 is the usual pipe 10 leading off to the main or water supply source. The casing 6 is provided with a side outlet opening 11 and formed at a point below the said opening and exteriorly of the casing is an annular groove 12. The purpose of this groove will be hereinafter more fully set forth as the description of the invention is proceeded with. The said casing 6 at the point of juncture of the exteriorly threaded tubular shank 8 therewith, is formed with a spaced concentric collar 13, defining between the inner wall of the collar and the exterior surface of the casing 6, a deep annular groove 14, opening out through the top of the collar 13, and the purpose of this groove is to rotatably mount upon the casing a cap 15. The mounting of the cap with respect to the casing is accomplished by providing at the lower end of the casing a depending tubular extension 16, and the walls forming the extension are of lesser thickness than the thickness of the walls forming the main chamber 17 of the cap, thus allowing the tubular extension of said cap to fit within the deep groove 14 of the casing with the horizontal annular shoulder 18 of the casing reposing upon the annular upper edge 19 of the collar. This cap 15 is likewise provided with a side outlet opening 20, adapted to register with the side outlet opening 11 of the casing 6, upon the rotation of the cap in

one direction, by grasping the handles 21 thereof. Each of these handles 21 is provided with a threaded shank 22 which threadedly engage in the threaded bores 23 of the cap and arranged at points diametrically opposite the cap and extending laterally therefrom. The cap 15 is provided in its upper end and in communication with the main chamber 17 thereof, with a valved chamber 24 and the point of intersection of the main chamber 17 with the valved chamber 24 is so constructed to provide a flared valve seat 25, with which the valve or cock 26 engages through the influence of the expansible spring 27, when the cock or valve 26 is in a raised or inactive position. The expansible spring 27 of the valve embraces its tubular shank and abuts at one end with the operating knob 28 and the opposite end of the spring reposes on the shoulder 29 when the valve is installed in the valve casing 24 of the cap, and it is to be understood that this spring is primarily adapted to automatically raise or throw the cock or valve 26 in an upward vertical direction with respect to the cap, to clear the side opening 11 thereof, thus upon rotation of the cap 15 to bring the side opening 20 thereof in registration with the side outlet opening 11 of the casing, opens the faucet to allow of the water supply to pass therethrough and out through the outlet passage 30 of the faucet 31, or in other words, upon the turning of the faucet 31 to a non-obstructing position with respect to the basin B, the supply of water will be permitted to pass out through the said faucet. Upon the turning of the cap in a reverse direction, or in other words, to allow of the spigots 31 to assume the position shown in Fig. 1 of the drawing, will throw the side opening 20 of the cap out of registration with the side opening 10 of the casing, and cut off the supply of water passing therethrough, but previous to this operation, the operator will press downwardly upon the cock or valve 26 to throw the head 32 thereof over the side opening 11 of the casing without any unnecessary splashing of the water during the turning off of the splash faucet.

The cap 15 at a point below the side outlet opening 20 thereof, is provided with a pair of diametrically arranged threaded openings 33. Threadedly connected in said openings are lugs, having a smooth protruding portion 35, said protruding portion 35 of the lugs engaging in the annular groove 12 of the casing, for preventing any accidental displacement of the cap from said casing.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of construction and of the method of operation will be readily apparent to those skilled in the art to which the invention relates, and while I have described the principles of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

What is claimed as new, is:

1. In a faucet, the combination with a casing having an inlet and an outlet opening, a cap rotatably mounted on said casing and having a side outlet opening, a spring pressed cock mounted in said cap for temporarily closing the outlet opening, and means for rotating said cap to bring the outlet opening thereof into or out of registration with the outlet opening of said casing, and a faucet threadedly connected in the side outlet opening of said cap.

2. In a faucet, the combination with a casing having an inlet and an outlet opening, a cap rotatably mounted on said casing and having a side outlet opening, a spring pressed cock mounted on said cap for temporarily closing the outlet opening, means for rotating said cap to bring the outlet opening thereof into or out of registration with the outlet opening of said casing, and means for preventing any accidental displacement of said cap from said casing, and a faucet threadedly connected in the side outlet opening of said cap.

3. In a faucet, the combination with a casing having an inlet and an outlet opening, a cap rotatably mounted on said casing and having a side outlet opening, a spring pressed cock mounted in said cap for temporarily closing the outlet opening, and means for rotating said cap to bring the outlet opening thereof into or out of registration with the outlet opening of said casing, and means carried by said cap and fitting within an annular groove formed in said casing for preventing any accidental displacement of the cap from said casing, and a faucet threadedly connected in the side outlet opening of said cap.

4. In a faucet, the combination with a casing having an inlet and an outlet opening, a collar formed integral with the casing and in spaced concentric relation therewith forming an annular groove, of a cap having an outlet opening, an extension formed on said cap and fitting within the annular groove of said casing for rotatably supporting the cap on said casing, operating means for said cap, a spring pressed cutoff in said cap for temporarily closing the outlet opening, and a spigot connected to the outlet opening of said cap.

5. In a faucet, the combination with a casing having an inlet and an outlet opening, a collar formed integral with the casing and in spaced concentric relation therewith

forming an annular groove, of a cap having an outlet opening, an extension formed on said cap, and fitting within the annular groove of said casing for rotatably supporting the cap on said casing, operating means for said cap, a spring pressed cutoff in said cap for temporarily closing the outlet opening, and means carried by said cap at a point above said extension and adapted to engage in a concentric groove of the casing for preventing any accidental displacement of the cap therefrom, and a spigot connected to the outlet opening of said cap.

In testimony whereof I affix my signature.

JOSEPH A. NII.