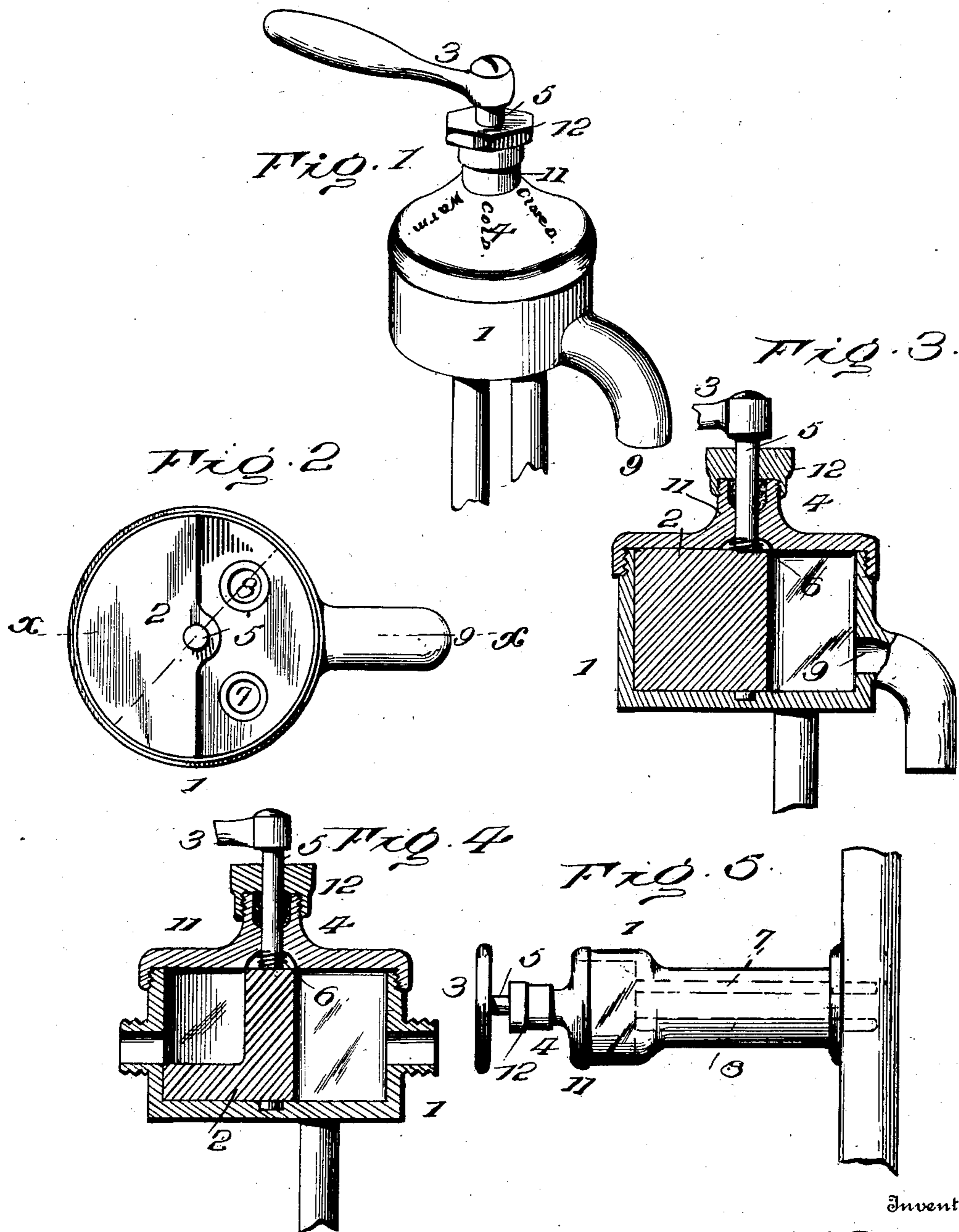


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J. A. GREENE.
HOT AND COLD WATER FAUCET.
APPLICATION FILED SEPT. 3, 1902.

NO MODEL.



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Witnesses

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HOT AND COLD WATER FAUCET.

SPECIFICATION forming part of Letters Patent No. 733,958, dated July 21, 1903.

Application filed September 3, 1902. Serial No. 121,964. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. GREENE, a citizen of the United States, residing at Prophetstown, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Hot and Cold Water Faucets, of which the following is a specification.

This invention relates to improvements in compound faucets for use on bath-tubs, shower-baths, washbowls, and the like, and has for its object to provide a device involving a simplicity of structure and ease of manipulation not heretofore attained in the art to which said device appertains.

The faucet in its essential application provides means whereby hot and cold water may be drawn off either separately or mixed in a mixing-chamber, so as to be drawn off having any degree of temperature. The structure before referred to permits a nicety of adjustment of the regulating means whereby any desired temperature of liquid may be secured, which will be seen to be of great advantage. Though the faucet is preferably applied to water-supply systems, it will be understood that it may be utilized in drawing off any other liquids analogous in character.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a faucet embodying the essential features of the invention. Fig. 2 is a top plan view showing the cap removed. Fig. 3 is a vertical section about on the line X X of Fig. 2. Fig. 4 is a vertical section of a modification. Fig. 5 is a top plan view of the faucet applied to a bath-tub.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The device is connected in the usual man-

ner with the sources of supply and comprises the casing 1, the valve 2, and the handle 3. The casing 1 and the general form of the different elements of the device may be modified in accordance with the spirit of the invention, considering more especially the special adaptation thereof. A cap 4 at the upper portion of the casing is removable, having screw connection therewith. The valve 2 is confined between opposite sides of the casing and is provided with the valve-stem 5, journaled in said sides. A coil-spring 6 around the valve-stem is preferably interposed between the cap 4 and the valve to take up any wear between the latter and the casing and prevent any leaking which might otherwise take place.

Inlet-openings 7 and 8 are disposed upon the under side of the casing 1 and are connected, respectively, with the hot and cold water supply pipes. The outlet-opening 9 is located in the side of the casing at a point approximately near the inlet-openings. A spout may extend from said opening in the ordinary manner. The extremity of the valve-stem 5 is squared to receive the handle 3, by which the valve is actuated, indicating data being placed upon the upper side of the casing in order that the degree of temperature of the water may be readily and quickly obtained. It will be seen that the valve is adapted to uncover either of the inlet-openings separately to allow hot or cold water to pass off, or both of said openings may be uncovered, whereupon the water will be drawn off tepid or lukewarm. The temperature of the liquid may be even further regulated, since the cold-water-inlet opening may be partially opened to any extent, and the flow therefrom mixing with the flow of hot water passing from the hot-water-inlet pipe, which will be entirely open, the temperature of the water may be made as desired, and vice versa with regard to the hot-water-inlet opening. The inscriptive data upon the upper side of the casing is of course consulted in the above-described operation, as before premised. A further means for preventing leakage about the valve-stem is provided upon the cap 4 and comprises a casing 11, integral with the said cap and surrounding the valve-stem, the same being filled with packing placed therein through

the top, which is closed by a cap 12, screwed thereon.

In Fig. 4 a modification is shown. This form of the invention is specially adapted for use in shower-baths, two outlets being provided upon opposite portions of the casing. The valve is of slightly-different construction, having a disk form to allow of egress of the water through either outlet-opening. One of the outlets would lead to the spray, while the other passed to the shower-nozzle, and valves for directing the flow of water to either should be used. These latter would be entirely independent of the faucet.

It will be noted that the casing may be in such position that the valve-stem is either horizontal or vertical. In the latter case, however, it will be necessary to use the common elbow-spout, as will be easily comprehended.

Fig. 5 shows a form of faucet which would be adapted for use upon bath-tubs, embodying, however, exactly the same structure, substantially as is shown in the preferred form.

I am not to be confined to the exact construction of parts as herein shown and described, but same may be changed in various ways so long as such changes conform and are included

within the scope and spirit of the claim hereto appended.

Having thus described the invention, what is claimed as new is—

In a device of the character described, a cylindrical casing, a mixing-chamber within said casing, hot and cold water inlet openings located in one-half of the bottom of said casing and leading into the mixing-chamber, an outlet-opening upon a side of the casing adjacent to the inlet-openings, a segmental plug-valve adapted in one position to fill the chamber and close both inlet-openings by the bottom side thereof, the peripheral portion of same simultaneously closing the outlet-opening, and in other positions to uncover both inlet-openings or to either partially or wholly uncover either of the inlet-openings and the outlet-opening, whereby any degree of temperature of the liquid may be produced, substantially as specified.

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

JOHN A. GREENE. [L. S.]

Witnesses:

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