W. HAYNES.

FAUCET.

APPLICATION FILED AUG. 9, 1909.

963,221. Patented July 5, 1910.

Fig. 1.

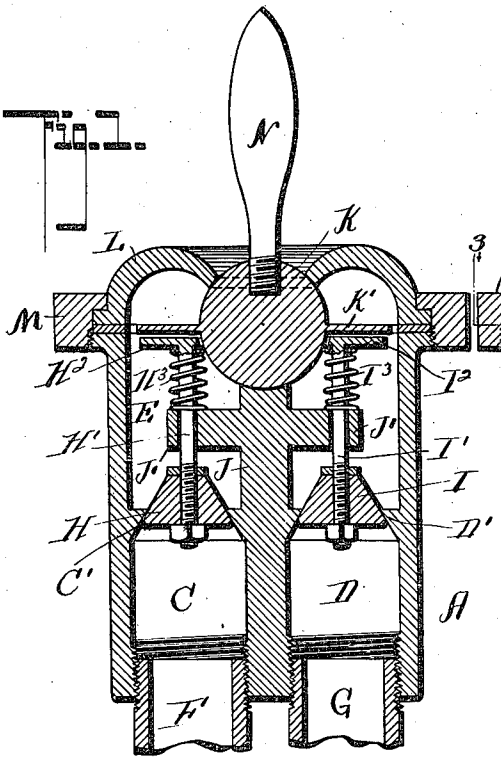

Fig. 2.

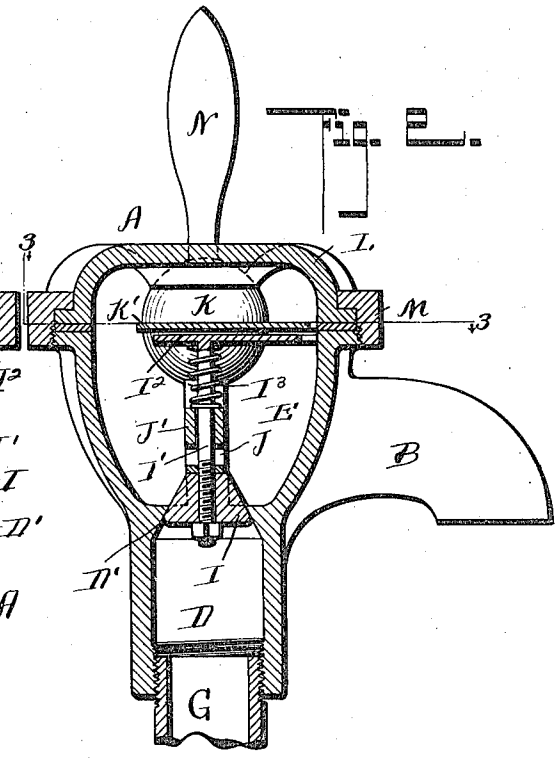

Fig. 3.

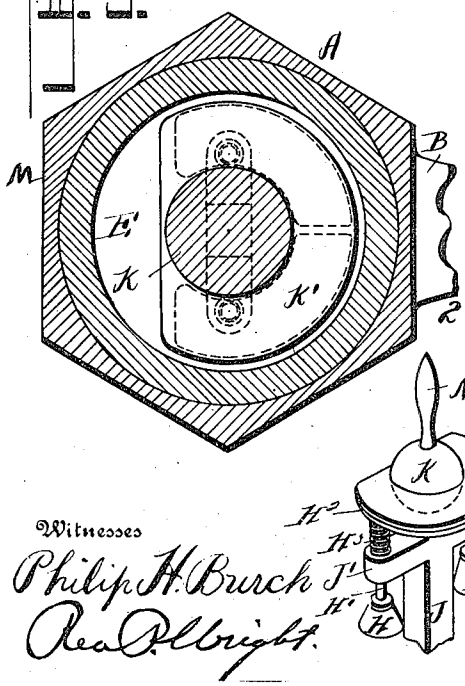

Fig. 4.

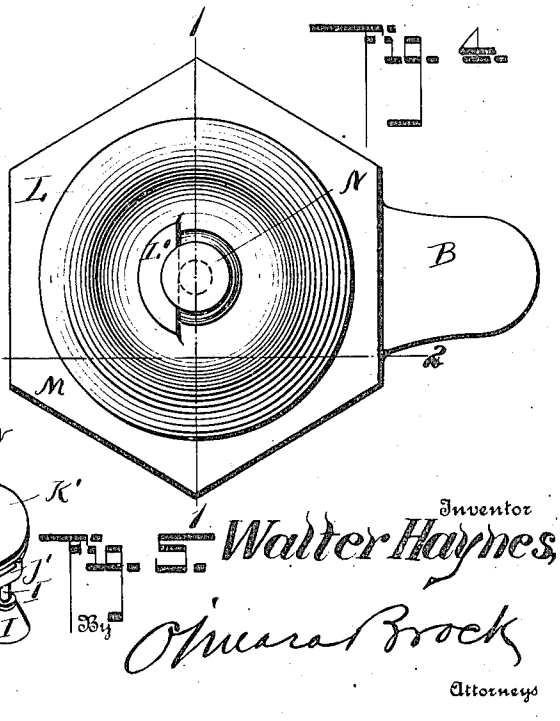

Fig. 5.

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FAUCET.

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To all whom it may concern:

Be it known that I, WALTER HAYNES, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Improvement in a Faucet, of which the following is a specification.

This invention relates to faucets especially adapted to be used in connection with bath-tubs, wash-basins, sinks and the like, the object being to provide a faucet which is adapted to supply either hot or cold water or both.

Another object of my invention is to provide a faucet with a pair of inlet ports to which are connected the hot and cold water pipe, the ports communicating with a central chamber, and are controlled by a pair of valves which are operated by one handle so that either of said ports can be opened or both at the same time by simply swinging the handle.

Another object of the invention is to provide a faucet which is so constructed that the parts are not liable to get out of order, and one which is very effective in use, as the flow of the hot and cold water through the same can be regulated so as to give the water passing out of the same any temperature desired.

With these objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification:—Figure 1 is a vertical section taken on the line 1—1 of Fig. 4. Fig. 2 is a section taken on line 2—2 of Fig. 4. Fig. 3 is a section taken on line 3—3 of Fig. 2. Fig. 4 is a top plan view of my improved faucet, and Fig. 5 is a perspective view of the valve and operating mechanism.

In the drawing A indicates the casing forming the body of my improved faucet which is provided with a spout B and passages C and D which communicate with a chamber E, the passages being provided with threaded end portions, in which are hot and cold water pipes F and G, adapted to be secured for supplying water to the chamber. The passages are provided with annular beveled shoulders C′, D′ forming valve-seats for the valves H and I which are carried by stems H′, I′, which are slidably mounted in the oppositely disposed arms J′ of a post J arranged in the chamber E, the upper ends of the stems H′, I′ being provided with curved arms H^2 I^2, and are surrounded by coiled springs H^3 I^3 between the arms H^2 I^2 and the arms J′ of the posts J so that the valves will be held up against the seats C′, D′ so as to normally close the passages C and D. The upper end of the post J is concaved to form a seat for a ball K which is held in place by a collar L which incloses the chamber E and is secured in place by a ring M and made water-tight by an ordinary rubber gasket. The ball is provided with a threaded bore in which is secured a handle N which extends through the opening of the collar and is prevented from being moved backwardly by a lip L′. The ball is also provided with a substantially semi-circular lip K′ adapted to engage the arms H^2 I^2 of the valve-stem when drawn forwardly by the handle so as to open the valve, and when shoved to either side one of the valves will be opened and the other closed, and it will be seen that by pulling the handle forwardly and gradually shoving it to either side desired, the temperature of the water passing out of the faucet can be readily regulated.

By means of this construction the temperature of the water drawn may be varied from the coldest of one pipe to the hottest of the other, such decrease or increase in temperature being entirely independent of the rate of flow, and furthermore it will be also obvious that the rate of flow may be regulated independent of the temperature of the water drawn.

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

1. The combination with a casing provided with a spigot and hot and cold water ports, of spring actuated valves for closing said ports, a ball mounted in said casing provided with a lip for operating said valves, and a handle connected to said ball.

2. The combination with a casing provided with a chamber having a spout and hot and cold water passages communicating therewith, of spring actuated valves for closing said passages, and a ball mounted in said chamber provided with a semi-circular lip for operating said valves, simultaneously or independently.

3. The combination with a casing provided with a chamber having an opened top,

of a spout and hot and cold water ports communicating with said chamber, a post formed in said chamber provided with oppositely disposed arms, valve-stems slidably mounted in said arms carrying valves at their lower ends for closing said ports and provided with curved arms at their upper ends, a ball mounted in the end of said post provided with a lip adapted to engage said arm of said valve-stems, a collar for closing said chamber, and a handle for operating said ball.

4. The combination with the casing provided with spaced inlet ports and a spout, of spring actuated valves for closing said ports, said valves being carried by stems provided with curved arms at their upper ends, a ball mounted in said casing provided with a substantially semi-circular lip adapted to engage said arms of said stems, and a handle for moving said ball whereby said valves can be opened independently or simultaneously.

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