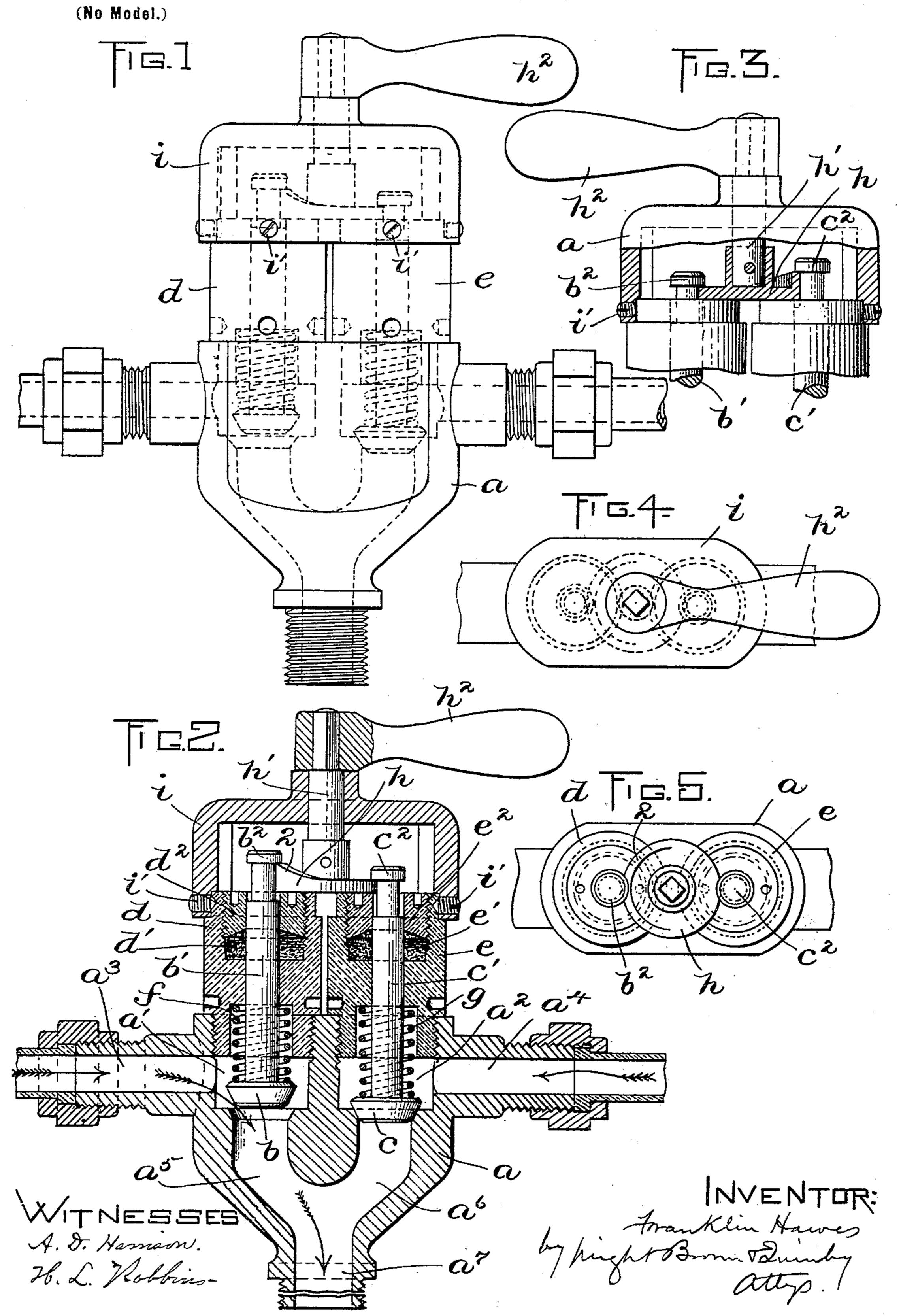
F. HAWES. FAUCET.

(Application filed July 6, 1898.)



United States Patent Office.

FRANKLIN HAWES, OF BOSTON, MASSACHUSETTS.

FAUCET.

SPECIFICATION forming part of Letters Patent No. 618,227, dated January 24, 1899.

Application filed July 6, 1898. Serial No. 685, 232. (No model.)

To all whom it may concern:

Be it known that I, Franklin Hawes, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Faucets, of which the following is a specification.

This invention relates to double-acting faucets adapted for use with a cold and hot wa-

ter supply.

The invention consists in certain features of improvement, which I shall proceed to explain, with the aid of the accompanying drawings, and then set forth in the appended claims.

faucet embodying my improvements. Fig. 2 represents a median vertical section of the same. Fig. 3 represents a detail view, in section and elevation, showing the operating-handle in a position opposed to that in Fig. 2. Fig. 4 represents a plan view. Fig. 5 represents a plan view with the cap and handle removed.

The same reference characters indicate the

25 same parts in all the figures.

Referring to the drawings, a designates a body or casing formed with two valve-chambers a' a^2 and with inlet-passages a^3 a^4 thereto adapted to connect with hot and cold wa-3c ter pipes. Outlet-passages a^5 a^6 , joining below into a single outlet a^7 , lead from the valvechambers, the upper orifices of the outlets constituting seats for two plunger-valves b c, which control the liquid-delivery through the 35 outlets. Said valves have elongated stems b'c', journaled in blocks or sleeves de, which screw into the casing a, the sleeves being recessed at their lower ends to receive springs fg, which abut the valves and tend to close 40 the same. At their upper ends the valvestems b'c' pass through stuffing-boxes formed in the sleeves d e and containing suitable packing d'e', confined by adjustable glands $d^2 e^2$, which screw into threaded recesses in 45 the sleeves. b^2c^2 are heads or flanges formed on the valve-stems b'c' by reducing them near their upper ends. Said heads rest on the margin of a cam-plate h, attached to the lower end of an operating-spindle h', whose upper 50 end is provided with a handle h^2 . A raised portion or abutment 2 is formed on one-half

of the cam-plate h, and when said plate is turned so that this raised portion comes underneath the head on one of the valve-stems the said stem and its valve are raised, while 55 the other stays depressed by the action of its spring. The spindle h' is journaled in a cap or cover i, which is attached by screws i' i' to the upper ends of the sleeves de. The valves may, if desired, be provided with a suitable 60 soft packing.

As here shown, the parts are so arranged that on turning the operating-handle so that it points toward the right, as shown in Fig. 2, the valve b is opened, admitting liquid from 65 the passage a^3 into the outlet or spout, the valve c remaining closed. When said handle is turned to point toward the left, as shown in Fig. 3, the valve c is opened, admitting liquid from the passage a^4 into the outlet, the 70 valve b remaining closed. When the handle is turned at right angles to these two positions, both the valve b and the valve c remain closed.

The faucet being coupled to hot and cold 75 water supply pipes, it will be seen that on properly manipulating the operating-handle a supply of either hot water or cold water can be obtained from the delivery-spout.

Among the advantages due to my improve- 80 ments in double-acting faucets are simplicity, compactness, durability, and accessibility of the parts for repair or replacement.

I claim-

1. A faucet comprising a body or casing containing two valve-chambers and inlet and outlet passages connected therewith, two valves operating in said valve-chambers, two sleeves independently screwed into the body and journaling the valve-stems, the latter projecting outside of the sleeves and a cam member engaging the valve-stems outside of the sleeves and adapted to be moved to operate the valves.

2. A faucet comprising a body or casing containing two valve-chambers and inlet and outlet passages connected therewith, two valves operating in said valve-chambers, two sleeves detachably secured to the body and journaling the valve-stems, a cap detachably secured to the sleeves, an operating-spindle journaled in said cap, and a cam member mounted on

said spindle and engaging the valve-stems so as to operate the valves when said spindle is rotated.

- 3. A faucet comprising a body or easing containing two valve-chambers and inlet and outlet passages connected therewith, two valves operating in said valve-chambers, two sleeves detachably secured to the body and journaling the valve-stems, springs abutting said sleeves and surrounding the valve-stems, said springs operating to close the valves, a camplate overlying the outer ends of the sleeves and engaging the valve-stems, said camplate operating to open the valves against the tension of the springs when suitably rotated, and means for rotating said camplate.
- 4. A faucet comprising a body or easing containing two valve-chambers and inlet and outlet passages connected therewith, two valves operating in said valve-chambers and having 20 elongated stems, two sleeves detachably secured to the body and journaling the valve-stems, stuffing-boxes in said sleeves surrounding the valve-stems, and a cam member engaging the valve-stems and adapted to be 25 moved to operate the valves.

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

FRANKLIN HAWES.

Witnesses:

C. F. Brown, A. D. Harrison.