J. GRAVES.
Basin-Faucet.

No. 211,298. Patented Jan. 14, 1879.

Fig. 1

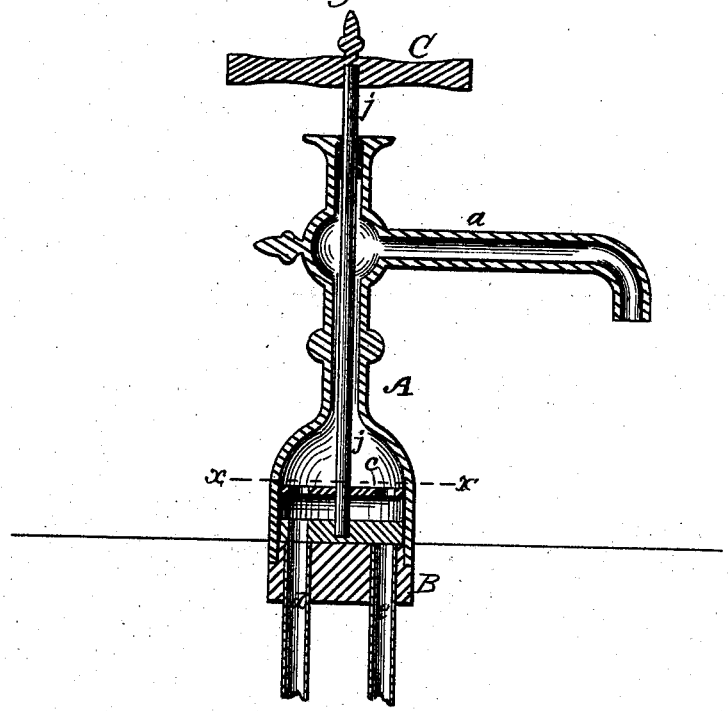


Fig. 2.

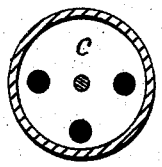


Fig. 3.

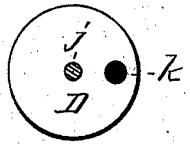


Fig. 4

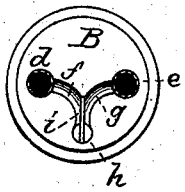
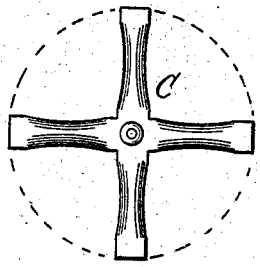


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN GRAVES, OF NEW YORK, N. Y.

IMPROVEMENT IN BASIN-FAUCETS.

Specification forming part of Letters Patent No. **211,298**, dated January 14, 1879; application filed December 11, 1878.

To all whom it may concern:

Be it known that I, JOHN GRAVES, of New York, in the county of New York and State of New York, have invented a new and valuable Improvement in Faucets; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my invention. Fig. 2 is a sectional view taken on line *x x* of Fig. 1. Fig. 3 is a top-plan view of the valve; Fig. 4, a top-plan view of the valve-seat, showing the hot and cold water passages, and Fig. 5 a top-plan view of the handle.

This invention has relation more particularly to that class of cocks or faucets used in wash-basins or sinks; and the object or purpose thereof is to construct a cock or faucet that may be readily turned and set for either the discharge of cold water, hot water, or a mixture of both to any degree desired to regulate the temperature of the water drawn, as will be hereinafter described, and subsequently pointed out in the claim.

In the accompanying drawings, A represents the shell of the faucet, of any suitable metal and design, and is provided or formed with the usual discharge-nozzle *a*. Within the shell A, near the lower end thereof, is a perforated diaphragm, *c*, to distribute the flow of water to the shell. To the lower end of the shell A is fitted a valve-seat, B, the same being provided or formed with hot and cold water inlets *d e*. Communicating with the inlet *d* is a water-way, *f*, and with the inlet *e* a water-way, *g*, the two water-ways meeting at *h*, and divided by a division-plate, *i*.

Passing through the shell A, and through a suitable stuffing-box at the end thereof, is a valve-rod, *j*, provided with an ornamental or plain handle, C, which may, if desired, have engraved or otherwise placed thereon the words "off," "cold," "hot," "any temperature," so that the operator will know the direction and distance which to turn the valve-rod for the purpose desired.

To the lower end of the valve-rod *j*, and below the diaphragm *c*, is rigidly secured a valve, D, having an opening, *k*, the required distance from its periphery, so that when turned to the required position it will register or come over either of the openings or passages in the valve-seat B.

When the faucet is not in use, or turned off, the opening *k* does not register with either of the inlets *d e h;* but should cold water alone be required the valve-rod is turned in the proper direction to bring the opening *k* over the cold-water inlet, when the water will readily flow into the shell A and out through the nozzle *a*. Should hot water be needed, the opening *k* is brought over the hot-water inlet, which allows the discharge of hot water; but should water be needed of a low temperature the opening in the valve is turned to bring it over the point of discharge, as shown at *h*, when the water will flow from both the hot and cold water inlets, pass along the water-ways *f g*, and up through the opening *k* at *h*. By turning the valve slightly to the right or left any degree of temperature of the water can be obtained.

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

The faucet-shell A, provided with valve-seat B, said seat having hot and cold water inlets *d e*, water-ways *f g*, division-plate *i*, and discharge *h*, in combination with rotary valve D, formed with opening *h*, and constructed to operate substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN GRAVES.

Witnesses:

WALTER H. WALDRON,

ABRAHAM GEIER.