

W. S. BATE.
Wash-Stand Faucets.

No. 145,609.

Patented Dec. 16, 1873.

FIG. 1.

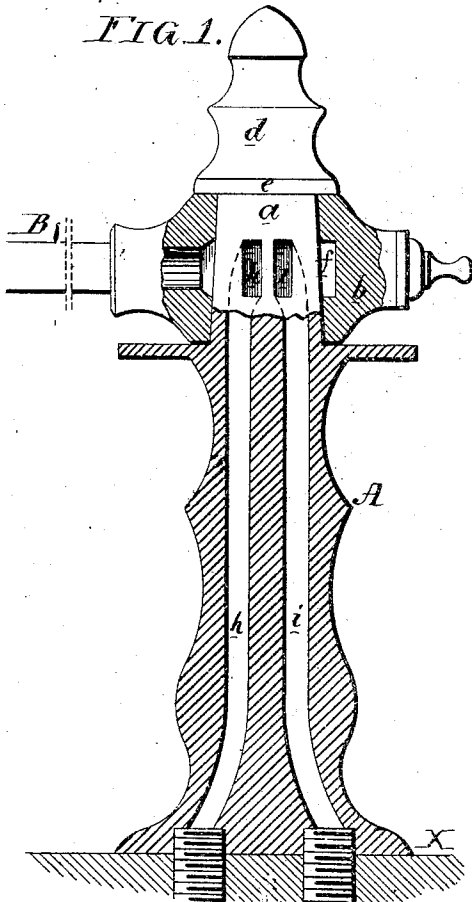


FIG. 2.

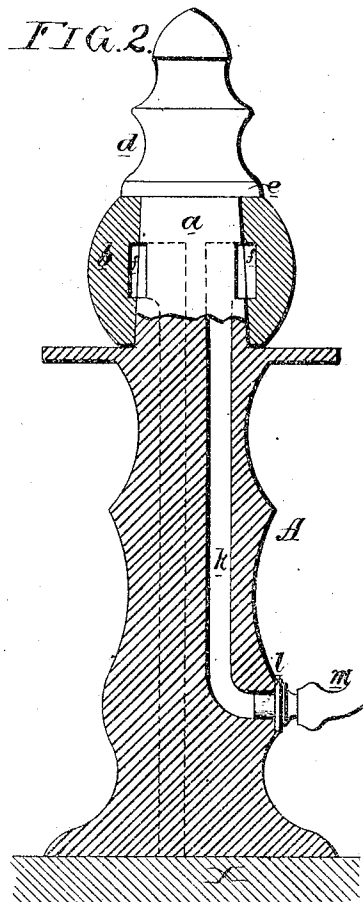


FIG. 4.

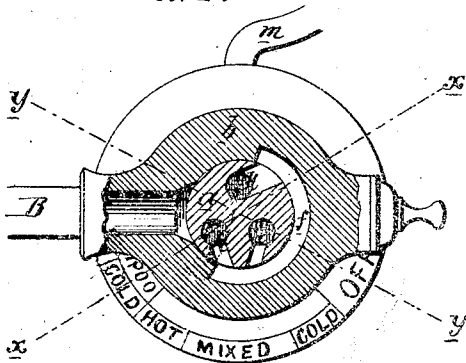
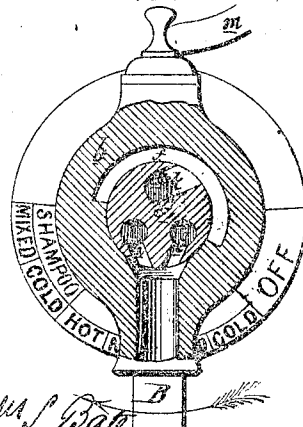


FIG. 3.



Witnesses, Hubert Howson
Harry Smith

W. S. Bate
By his Attys.
Howson and Son

UNITED STATES PATENT OFFICE.

WILLIAM S. BATE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WASH-STAND FAUCETS.

Specification forming part of Letters Patent No. 145,609, dated December 16, 1873; application filed October 18, 1873.

To all whom it may concern:

Be it known that I, WILLIAM S. BATE, of the city and county of Philadelphia, State of Pennsylvania, have invented an Improved Wash-Stand Faucet, of which the following is a specification:

The objects of my invention are, first, to obtain a supply of either hot or cold water, or a mixture of both, from the swivel-spout of a wash-stand faucet; and, second, to supply both a basin and a shampooing device with water from one faucet. I attain these objects by constructing the faucet in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figures 1 and 2 are vertical sectional views of the faucet, and Figs. 3 and 4 sectional plan views.

The fixed pillar or stem A of the faucet is secured in any suitable manner to the top X of a wash-stand adjacent to the basin, and to the upper tapering portion, a, of the said stem is fitted the enlargement b of the swivel-spout B, which is held in place as usual by a nut, d, and washer e. Within the enlargement b there is a semicircular recess, f, which, by manipulating the spout, can be turned to any desired position on the tapering portion or plug a of the stem. There are three passages in the stem and its plug; namely, a passage, h, communicating with the hot-water pipe, a passage, i, communicating with the cold-water pipe, and a passage, k, communicating with a branch, l, to which is attached one end of a flexible pipe, m, the other end of the latter having a rose through the perforations of which water can be projected for shampooing purposes. When the spout is in the position shown in Fig. 3, its orifice is directly above the center of the basin of the wash-stand, and both hot and cold water from the passages h and i are flowing from the spout. On turning the spout a short distance in the direction of the arrow, Fig. 3, hot water alone will escape into the basin, and on turning the spout in a contrary direction to a limited extent, cold water alone can pass into

and through the spout. On turning the spout to the position indicated by the dotted line x x in Fig. 4, the internal recess f, in the enlargement of the spout, will form a communication between the port i of the cold-water passage and the port k, communicating with the shampooing apparatus; and, by turning the spout a little farther, to the position shown by full lines in Fig. 4, the recess f will communicate with both hot and cold water passages, and will be the means of transmitting a mixture of the two graduated to the desired temperature, by slight manipulations of the spout, to the shampooing device. To establish communication between the hot-water pipe h alone, and the outlet-port k through the passage f, the latter would have to be turned to a position the reverse of that indicated by the dotted line x x. On turning the spout to the position shown by the line y y in Fig. 4, all communication between it and the passages in the stem of the faucet will be cut off. If a basin-faucet only is required, the recess f, passage k, and shampooing attachment may be dispensed with; and, in some instances, where cold water only is required for the basin and shampooing apparatus, the hot-water passage h may be dispensed with.

I claim as my invention—

1. The combination, in a wash-stand faucet, of a stem, A, having two supply-passages, h and i, and a swivel-spout, B, which may be brought into communication with either or both of said passages, substantially as set forth.

2. The combination of the swivel-spout B, and its recess f, with the fixed stem A, having one or more supply-passages, and an outlet-passage, k, all substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WM. S. BATE.

Witnesses:

WM. A. STEEL,
HENRY SMITH.