F. NORBOE.

Improvement in Water Supply Attachments to Wash-Basins.

No. 116,086. Patented June 20, 1871.

Fig 1

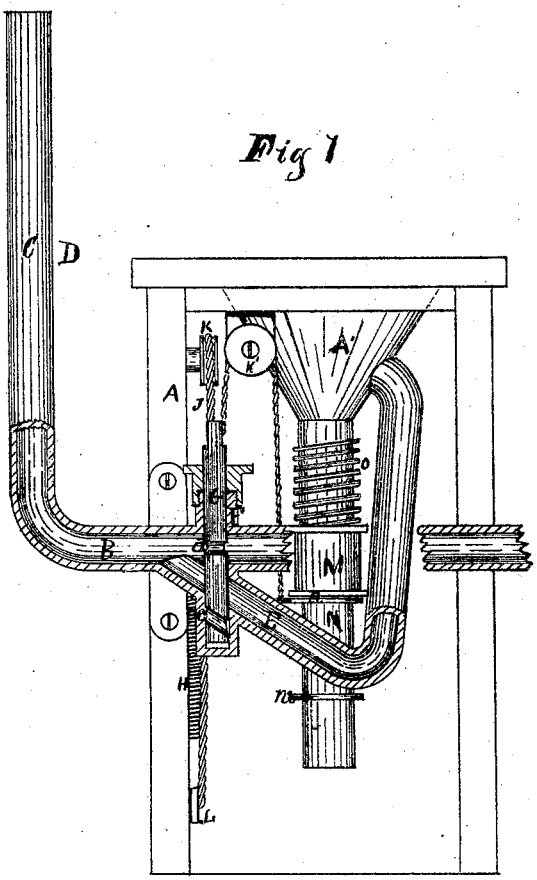
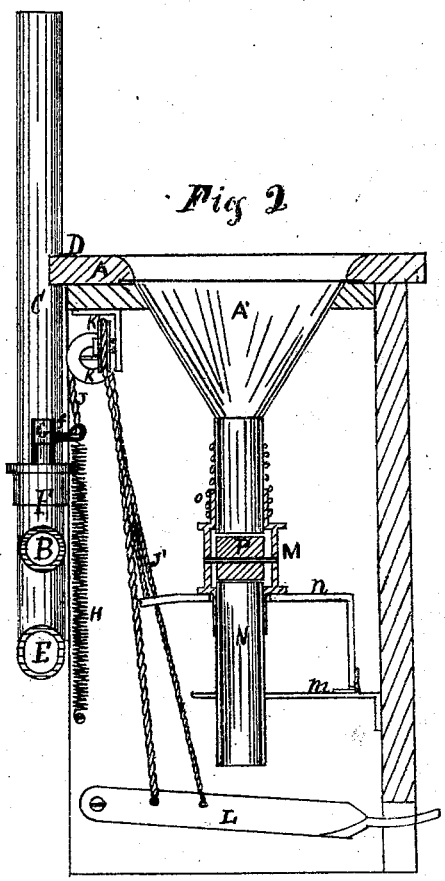


Fig 2



Witnesses
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UNITED STATES PATENT OFFICE.

FREDERICK NORBOE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN WATER-SUPPLY ATTACHMENTS TO WASH-BASINS.

Specification forming part of Letters Patent No. 116,086, dated June 20, 1871.

To all whom it may concern:

Be it known that I, FREDERICK NORBOE, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Water-Supply Attachments to Wash-Basins and Water-Closets; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side elevation of an ordinary wash-basin with my improvement attached thereto, a portion of which is cut through the center, showing its interior position; and Fig. 2 is a vertical transverse central section of the same, showing those parts which are at the left-hand of the line *x x* drawn across Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures of the drawing.

The object of my invention is to provide an attachment to wash-basins and water-closets, by the use of which the required supply of water may be readily supplied to and discharged from the bowl; and to this end it consists in a reservoir or supply-pipe communicating with the bowl, and to which the pipe from the hydrant or other water-supply is connected; also, in providing said pipe with a double-acting faucet, so arranged as to allow the water from the hydrant to enter said reservoir or supply-pipe through the same when closed, or when opened to cut off the supply of water from the hydrant and allow the water contained within the reservoir or supply-pipe to enter the bowl; and also, in the detailed construction of the valve employed within the discharge-pipe of the bowl, whereby the water may be retained or discharged.

In the drawing, A is the case or frame, within which the bowl A′ is secured. Affixed to the rear side of said case, near the lower surface of the bowl, is a pipe, B, which communicates with the hydrant or other main water-supply in the ordinary manner. The end of said pipe, near the case, is bent upward vertically, and is so arranged as to extend above the bowl, as shown at D, thus forming a reservoir, C, into which the water from the hydrant passes. Firmly secured to said pipe, and communicating with the same at a point near the reservoir, is a pipe, E, which is bent upward in a suitable manner to pass through the side of the bowl near its upper edge. The said pipes are provided, near their intersection point, with a vertical cylinder, F, the cavity of which communicates with the cavity of the pipes, and within which cylinder is secured the faucet-stopper G, which is so arranged as to admit of a free-and-easy vertical movement. Within said stopper, and passing through the same, are apertures, *d* and *e*, which are so arranged as to communicate alternately with the cavity of the respective pipes as the stopper is raised or lowered. Affixed to the upper extremity of said stopper, above the cylinder, is an arm, *f*, to which is attached a spiral spring, H, extending downward to or below the lower end of the cylinder, and is firmly secured to the inner side of the case, by which means the stopper is secured firmly in a closed position. Also, attached to the outer end of said arm is a rope, J, which extends upward to and around a shive-wheel, K, pivoted to the inner side of the case; thence downward to or near the lower side of the case, and is connected to a treadle, L, which is pivoted to the case at or near its rear side, and extends forward through the front walls of the same. Thus, as said treadle is forced downward, the stopper is raised, which brings the solid portion thereof across the cavity of pipe B, closing the same, and bringing opening *e* in communication with the cavity of pipe E, by which means the water contained in the reservoir is discharged, through said opening and pipe, into the bowl, and, as the power is removed from the treadle, the stopper is forced downward by the action of spring H, which closes pipe E by the solid of the stopper, and opens pipe B, by which means the reservoir is again filled. Affixed upon the lower extremity of the bowl is an adjustable sleeve, M, within the lower end of which is fitted the discharge-pipe N. Firmly secured to the front side of the case is a horizontal arm, *m*, through the end of which the discharge-pipe N passes, and to which is hinged an arm, *n*, through which the lower end of sleeve M passes. Affixed to

and around the lower end or extremity of the bowl, above and resting upon the sleeve, is a spiral spring, O, which is so arranged as to secure said sleeve against arm *n*. Firmly secured within the sleeve is a valve, P, which comes in contact with and rests upon the upper end of discharge-pipe N, by which means the water is retained within the bowl when desired. Attached to the outer end of said arm *n* is a rope, J′, which extends upward to and around a shive-wheel, K′, secured to the cover of the case; thence downward to the treadle. Thus, as said treadle is forced downward, the valve is raised from the end of the discharge-pipe, and the water contained within the bowl is discharged therefrom around and under the valve through said pipe.

Having thus described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the reservoir or supply-pipe C, the double-acting faucet-stopper G, pipes B and E, sleeve M, valve P, and discharge-pipe N, the whole arranged to operate together substantially in the manner and for the purpose described.

The above specification of my invention signed by me this 30th day of January, A. D. 1871.

FREDERICK NORBOE.

Witnesses:
N. C. GRIDLEY,
N. H. SHERBURNE.