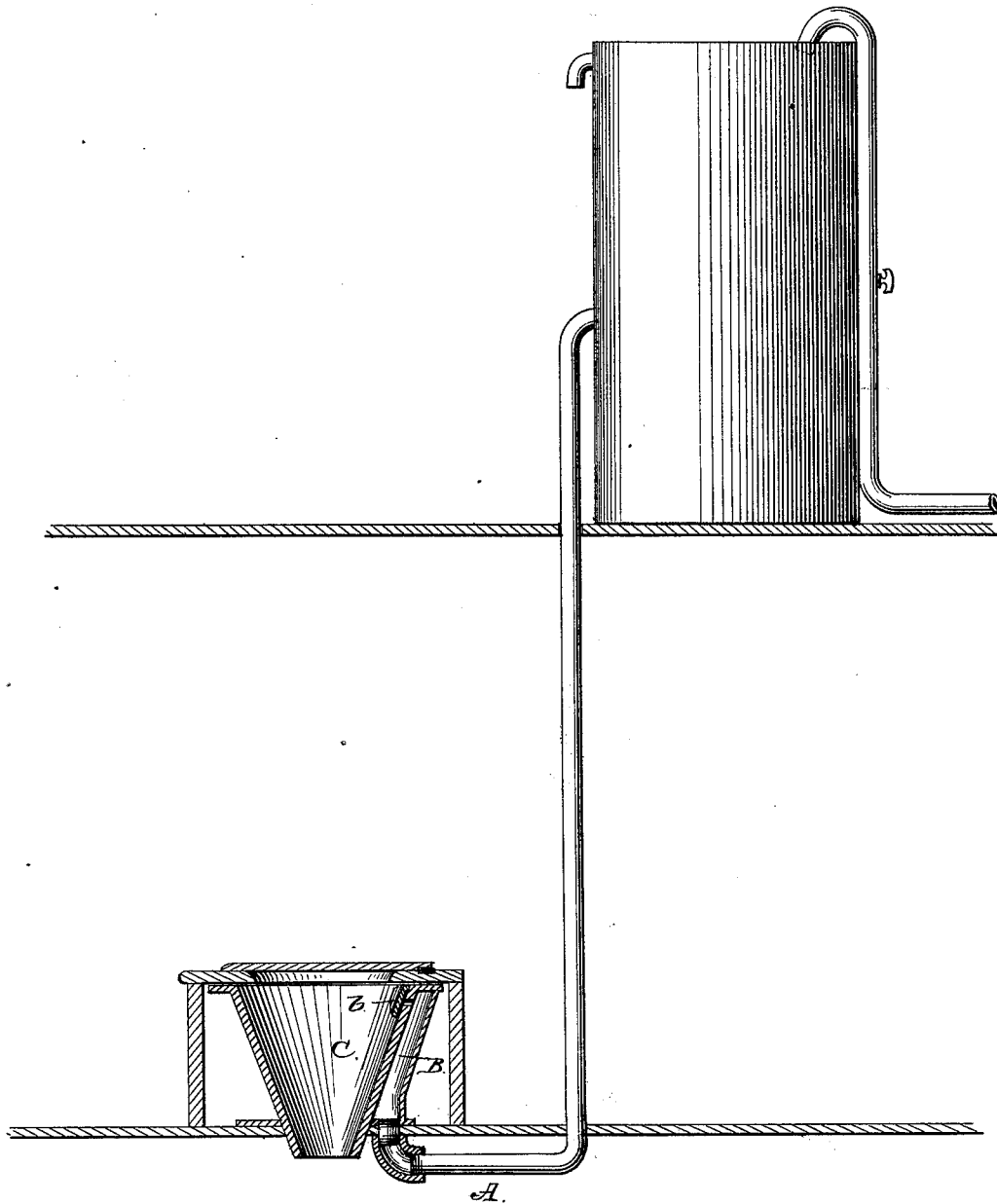


J. M. WILSON.
Water-Closet Hopper.

No. 220,688.

Patented Oct. 14, 1879.



WITNESSES
John A. Ellis
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UNITED STATES PATENT OFFICE.

JOSEPH M. WILSON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WATER-CLOSET HOPPERS.

Specification forming part of Letters Patent No. 220,688, dated October 14, 1879; application filed August 4, 1879.

To all whom it may concern:

Be it known that I, JOSEPH M. WILSON, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and valuable Improvement in Water-Closet Hoppers; 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 drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

The drawing is a representation of a vertical section of my invention.

This invention has relation to improvements in water-closet basins or hoppers.

The object of my invention is to devise a basin especially adapted to be used in connection with the closet-flushing apparatus described in my Letters Patent No. 202,619, April 16, 1878, and No. 214,976, April 29, 1879.

The nature of the invention consists in a canal or conduit cast in the hopper, or attached to it, and extending from the base thereof to a discharge near the top of the hopper, the said conduit forming a continuation of the siphon-tube, as will be hereinafter more fully set forth.

In the annexed drawing, the letter A designates the lower end of a siphon-tube, the upper end of which is extended into a reservoir, and the lower end bent down in the form of the letter U, and its free extremity connected to a conduit, B, formed in or attached to the side wall of a basin or hopper, C. This conduit extends from the base of the hopper up-

ward, and is carried through its wall at a point slightly below the top of the basin or hopper, at which point is a deflecting or spreading plate, *b*, by means of which the water is directed downward and laterally against the inner walls of the hopper.

In the apparatus described in the Letters Patent above referred to the siphon was carried over the rim of the hopper and bent down, and the water was discharged in a solid stream against a single part of the hopper-wall. This construction was faulty for obvious reasons.

The basin may be made of iron, porcelain, or other suitable material.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a water-closet, the combination, with the siphon-tube A of a flushing apparatus, of the hopper C, having conduit B extending from its base upward, and carried through the hopper-wall near its rim, and the deflecting-plate *b* at the educt end of said conduit, substantially as specified.

2. The water-closet hopper having a conduit in its exterior wall, in combination with the long leg of a siphon-tube connected to said conduit at its lower end, and forming therewith a U-bend, substantially as specified.

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

JOSEPH M. WILSON.

Witnesses:

E. L. PERDRIAUX,
GEORGE W. SELTZER.