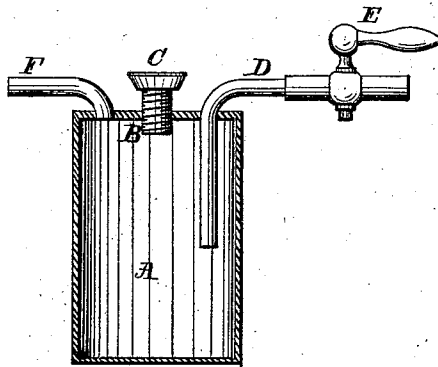


E. HOWARD.

DISINFECTING AND DEODORIZING WATER-CLOSETS AND URINALS

No. 183,264.

Patented Oct. 17, 1876.



Witnesses:

*John Dickinson*

*Edwin L. Dickinson*

Inventor:

*Edward Howard*

# UNITED STATES PATENT OFFICE.

EDWARD HOWARD, OF MOUNT VERNON, NEW YORK.

IMPROVEMENT IN DISINFECTING AND DEODORIZING WATER-CLOSETS AND URINALS.

Specification forming part of Letters Patent No. **183,264**, dated October 17, 1876; application filed February 17, 1876.

*To all whom it may concern:*

Be it known that I, EDWARD HOWARD, of Mount Vernon, in the county of Westchester and State of New York, have invented a new and Improved Mode of Disinfecting and Deodorizing Water-Closets, Urinals, or other places needing to be deodorized or disinfected; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in causing a part of the ordinary water-supply to pass through a concentrated solution of a disinfectant and deodorizer, and therefore to disinfect and deodorize in an automatic manner.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my disinfecting and deodorizing bottle A of earthenware, or any suitable material, large enough to hold about four quarts, fitted with an opening, B, at the top, through which it may be filled with a saturated solution of any good disinfectant and deodorizer, which opening is closed by a stopper, C. On one side is a pipe, D, fitted with a stop-cock, E, which pipe is to be inserted in the water-sup-

ply pipe used to flush the water-closet or urinal. On the opposite side of the bottle A is another pipe, F, which passes from the bottle to the water-supply pipe, to be inserted nearer the point of the water-discharge.

Now, the bottle A being always full of a disinfecting and deodorizing substance, and the pipe D passes into the bottle more than half way toward its bottom, whereas the pipe F commences near the top of the bottle A, it follows that when the water is on in the flushing-pipe some of the disinfectant and deodorizer will be forced through the pipe F by the pressure of water entering the pipe D, and thus automatically disinfect and deodorize.

I usually fill the bottle A with a supersaturated solution of chloride of zinc, but permanganate of potash or other approved substances may be used.

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

In combination, the vessel A, inlet-pipe D, outlet-pipe F, said vessel A having a screw-cap, C, for introducing deodorizing material.

EDWARD HOWARD, M. D.

Witnesses:

JOHN DICKINSON,

EDWIN L. DICKINSON.