

J. DEMAREST.
Hopper Water-Closet.

No. 221,217.

Patented Nov. 4, 1879.

Fig. 1.

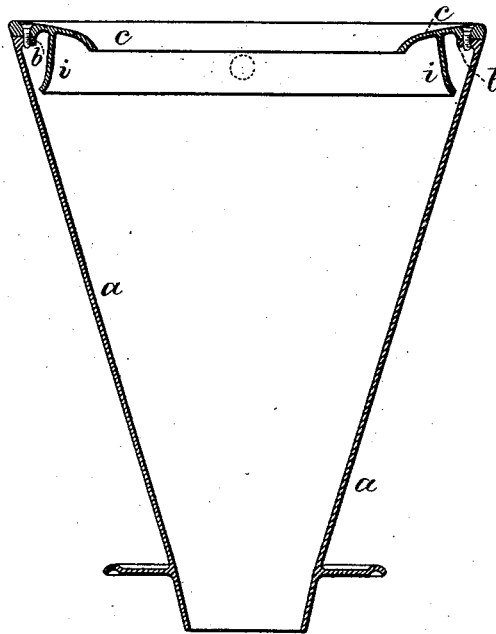
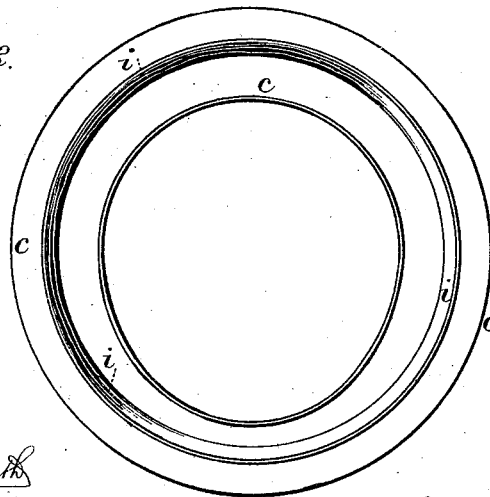


Fig. 2.



Witnesses

Chas. H. Smith
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Inventor

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per Lemuel W. Perrell
att'y

UNITED STATES PATENT OFFICE.

JOHN DEMAREST, OF NEW YORK, N. Y., ASSIGNOR TO THE J. L. MOTT IRON WORKS OF SAME PLACE.

IMPROVEMENT IN HOPPER WATER-CLOSETS.

Specification forming part of Letters Patent No. **221,217**, dated November 4, 1879; application filed July 30, 1879.

To all whom it may concern:

Be it known that I, JOHN DEMAREST, of the city and State of New York, have invented an Improvement in Hopper Water-Closets, of which the following is a specification.

Hopper water-closets have been made with an inward flange at the upper end, upon which the movable seat has rested, and in some instances a wooden rim has been screwed to said flange. This character of water-closet has also been provided with what is known as a "flushing-rim," which is a vertical rim within the flange, to equalize the action of the water and cause the same to wash the entire inner surface of the closet, there being a narrow opening between the lower edge of this flushing-rim and the inner surface of the closet-hopper.

My invention is made for dispensing with the ordinary seat, lessening the expense of the closet, and rendering the same stronger and more cleanly.

I combine a metallic seat with the flushing-rim and secure the same to the upper end of the hopper-closet. By this construction the hopper and seat are permanently connected, so as to dispense with the ordinary wooden seats, and rendering the closet indestructible, whereby it may be used in prisons, public institutions, and other places where the wooden seats are often designedly broken.

In the drawings, Figure 1 is a vertical section of the hopper-closet, and Fig. 2 is an inverted plan of the seat and flushing-ring.

The hopper *a* is of any usual size or shape. The top flange, *b*, projects inwardly, and upon this rests the metal seat *c*, that fits the outside of the hopper and has the required opening in it, the upper surface being beveled down-

wardly, so as to form a seat and cause any water that falls upon the surface to drip from its edge and run directly into the hopper.

The flushing-rim *i* is upon the under surface of the seat-ring, and extends downwardly to near the inner surface of hopper, leaving a space for the water to issue, such water being supplied into the annular space that there is between the flushing-rim and the hopper and flange.

The hopper-seat and flushing-rim may be wholly or partially enameled or painted.

I do not claim a flushing-rim with a plate above it having a downward flange, as this has been used; but the top of the plate being flat and having an angular edge was not adapted to use as a seat.

I am also aware that earthen basins have been made with a hollow flushing-rim all in one piece with the rest of the basin. This form is difficult to make in metal, and the hollow flushing-rim cannot be properly finished on the inside unless the flange is separate from the basin.

I claim as my invention—

The combination, with a hopper water-closet, of a metallic separate plate, *c*, the surface of which is beveled downwardly and forms a seat, and the flushing-rim upon the under side of such plate *c* extending downwardly to near the inner surface of the hopper, as and for the purposes specified.

Signed by me this 26th day of July, A. D. 1879.

JOHN DEMAREST.

Witnesses:

AUGUSTUS W. MOTT,
GEO. C. GOELLER.