P. W. Neefus,

Water Closet,

No. 37,635. Patented Feb. 10, 1863.

Fig. 1.

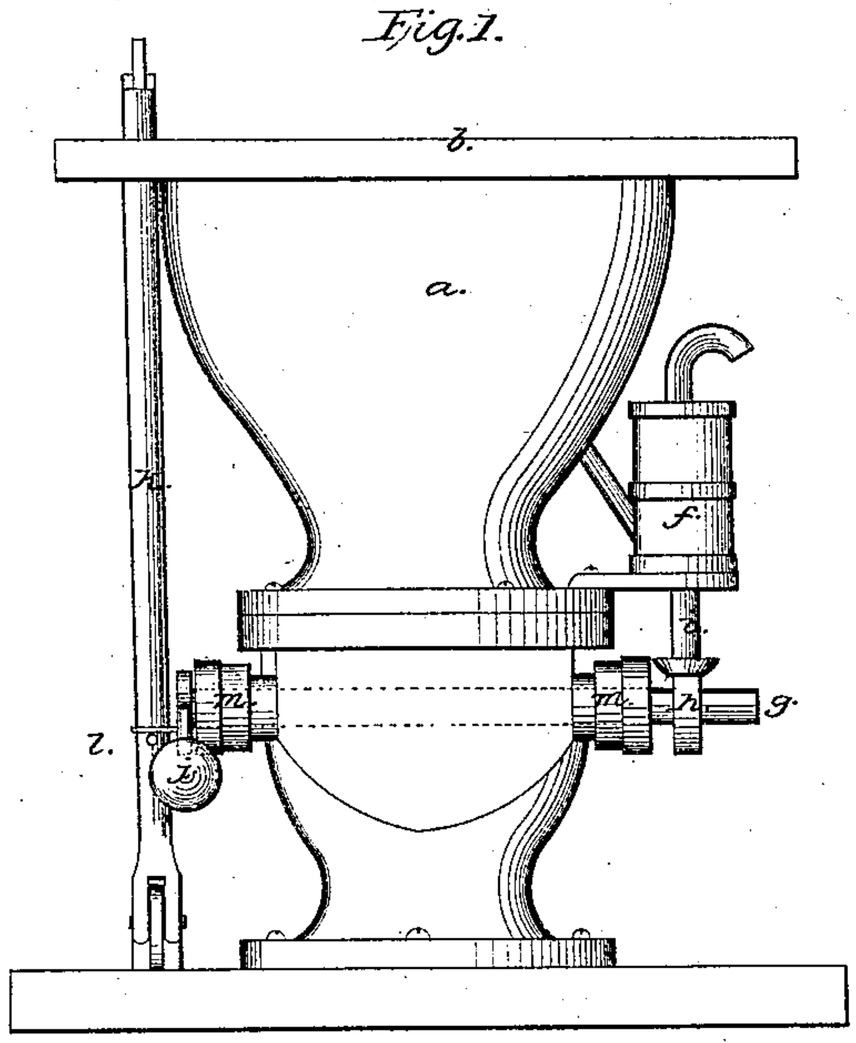
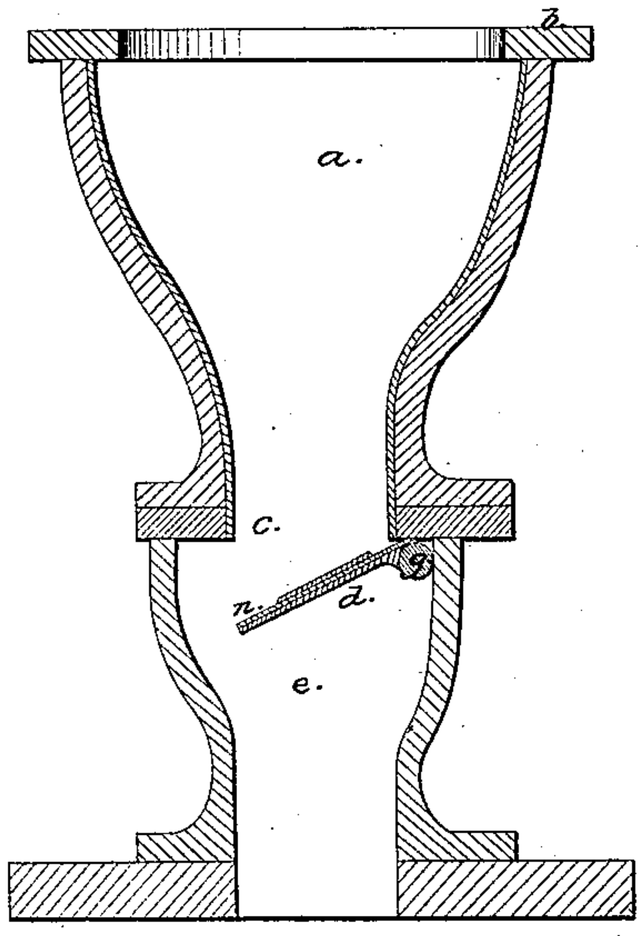


Fig. 2.



Witnesses:

Chas. H. Fowler.

Geo. B. Sanborn.

Inventor:

P. W. Neefus.

by Atty T. T. Everett,

UNITED STATES PATENT OFFICE.

PETER W. NEEFUS, OF NEW YORK, N. Y.

IMPROVEMENT IN SHIPS' WATER-CLOSETS.

Specification forming part of Letters Patent No. **37,635**, dated February 10, 1863.

To all whom it may concern:

Be it known that I, PETER W. NEEFUS, of the city of New York, in the State of New York, have invented a certain new and useful Improvement on Water-Closets; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters and marks thereon.

It is very important that all the joints of water-closets should be air and water tight, particularly when they are intended for ships and ocean vessels. Heretofore great difficulty has occurred in making tight the valves and the shafts or stems operating them, and it is to the remedying of this difficulty that my invention is directed.

The drawings forming part of this specification show my invention applied to a single water-closet for a ship, as is evident the invention may be applied to double water-closets, whether intended for ships or for buildings.

Of these drawings, Figure 1 is a side view of a water-closet, and Fig. 2 a view by vertical section on a line at right angles to the valve-shaft.

In both of these figures where like parts are shown like letters and marks are used to indicate the parts.

The chamber of the closet is marked *a*, its top piece *b*, its aperture *c*, and the valve closing the aperture *d*. The second chamber is marked *e*, and the water-cylinder *f*. The valve *d* is attached to a shaft, *g*, which passes through the chamber *e*, this shaft having at one end a cam, *h*, for elevating the rod *i* of the water cylinder, and being weighted, *j*, at its other end, the operation of the weight being to close the valve *d*. A rod, *k*, by its arm *l*, when elevated opens the valve. It will be perceived that the shaft *g* passes through stuffing-boxes *m*, and that the escape of gas or fluid through the shaft-holes in the chamber is thus entirely prevented. These stuffing-boxes will be packed with india-rubber or some good packing material. It will also be perceived that the valve *d* is faced with leather *n*, and that by thus facing the valve with leather, india-rubber, or some good packing material, it is rendered perfectly air and water tight, and that in closets in ships the surging up of the water will tend to keep the valve to its seat, while the weight, usually, will prevent any escape of gas through the opening between the chambers.

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

Combining with the shafts, journals, and valves of ship's water-closets, substantially as described, stuffing-boxes and faced valves, so as to make them air and water tight, as herein set forth.

This specification signed this 29th day of November, 1862.

PETER W. NEEFUS.

Witnesses:

Z. PLATT,

WM. A. CORBIERE.