

J. P. PUTNAM.
Combined Water-Closets and Urinals.
 No. 147,348. Patented Feb. 10, 1874.

Fig. 1.

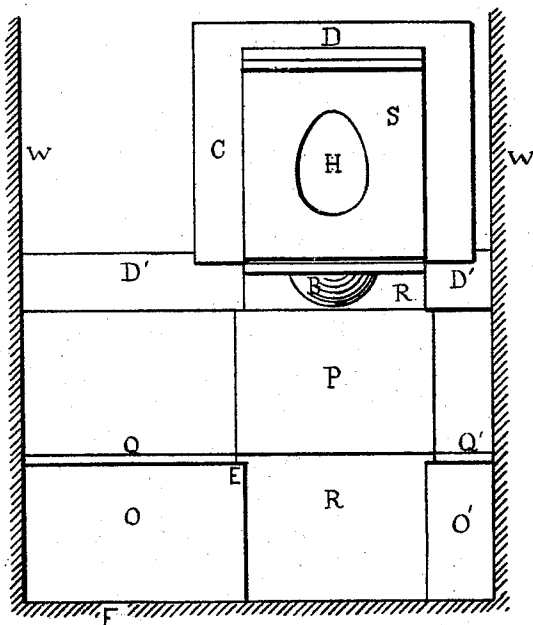


Fig. 2.

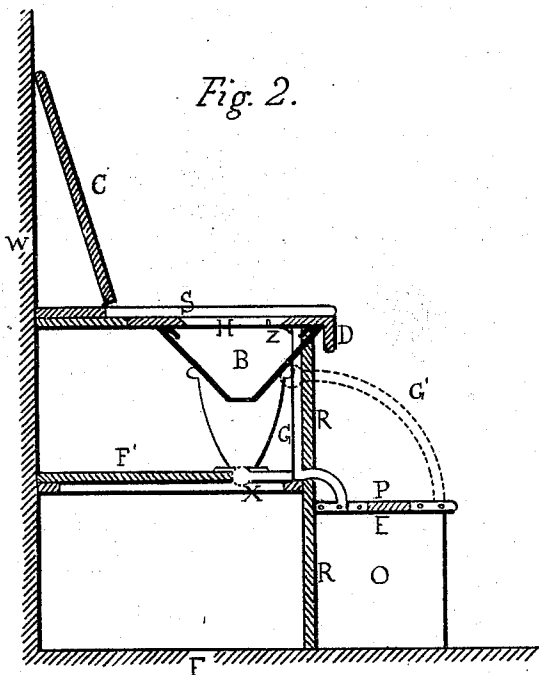
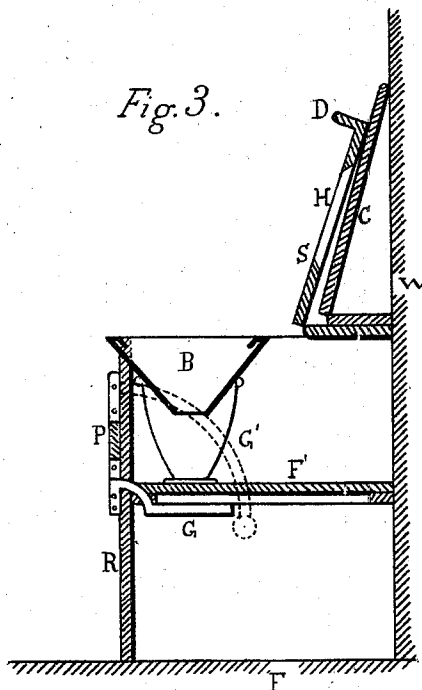


Fig. 3.



WITNESSES.
 Arthur Rotch
 Geo. T. Tilden

INVENTOR.
 J. P. Putnam

UNITED STATES PATENT OFFICE.

JOHN PICKERING PUTNAM, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN COMBINED WATER-CLOSETS AND URINALS.

Specification forming part of Letters Patent No. 147,348, dated February 10, 1874; application filed December 11, 1873.

To all whom it may concern:

Be it known that I, JOHN PICKERING PUTNAM, of Boston, in the county of Suffolk, State of Massachusetts, have invented a Combined Water-Closet and Urinal, of which the following is a specification:

My invention consists in the combination of a high water-closet bowl and seat with a movable step, so arranged that the bowl may be used with equal facility as a water-closet or as a urinal. The object of my invention is to secure convenience, economy, and cleanliness in this particular, and dispense with the use of separate urinals, which are expensive, inelegant, and liable to get out of order, besides emitting generally a disagreeable odor.

Figure 1 is the front elevation of the contrivance embodying my invention. In this figure the water-closet seat S and the step or pedal P are raised, showing the appearance of the bowl B used as a urinal. Figs. 2 and 3 are transverse sections of the same, the former showing the bowl B used as a water-closet, the latter showing the same used as a urinal.

In these figures similar letters refer to similar parts of the apparatus.

W W represent the side walls of the closet, and F the floor. B is the water-closet bowl, which is raised to the height of an ordinary urinal—say, from two feet two inches to two feet five inches. This bowl projects somewhat beyond the front face of the riser R, in order to facilitate its use as a urinal, when the step P is raised, as in Figs. 1 and 3. In order to allow of this projection, the riser has a semicircular opening cut on its upper edge, as shown in elevation in Fig. 1, and in section in Figs. 2 and 3. In order to screen this projecting portion of the water-closet bowl, and to bring the hole H over the center of the bowl B, the seat S is made to project beyond the front edge of the bowl and riser, and is provided with a drop, D, which covers the projecting part of B, and continues the pieces D' D' when the seat is down. In this way the water-closet bowl may be comfortably and safely used as a urinal, and the necessity of using a double seat is avoided. The step P, when down, rests upon the box O on one side, and upon the projection O' on the other. The cover Q of the box O may be made to raise like the step P, and may

be used as a service-box or otherwise. When the step P is down it forms, with the cover Q when shut, and with Q', the top of O', a single continuous and comfortable foot-rest for the sitter. The rising and falling of the step P is facilitated by the regulator or governor G. This consists of a flat piece of iron or other strong and heavy material, so adjusted, at right angles with the surface of the step, that the weight of the latter is balanced when at an angle of forty-five degrees, and a slight blow of the foot or hand will raise or lower it, as desired, and cause it to remain fast in either of the two positions shown in Figs. 3 and 2. In order to facilitate the balancing of the step the regulator G may be loaded, if necessary, at its end farthest from the center of rotation. The regulator is fastened to the step near its center or axis of rotation, and at such a point on the axis that its movement will not interfere with the plumbing. It has the form of a quarter of a circle, concentric with the center of rotation, where it is secured to the step and passes through the riser R. This facilitates its passage through R, and, if it is in any case desirable to dispense with the supports O and O', the radius of this quarter-circle may be made equal to the width of the step, and the regulator then receives the simple form G', in dotted lines, and serves both to balance and support the step at once. The raising of the step may be made automatic and simultaneous with the raising of the seat S, if desired, so that the bowl cannot be used as a urinal without first raising the seat S. This insures its perfect cleanliness, as without this device it might often be soiled by carelessness in neglecting to raise it before use. This is accomplished by means of a spring, Z, fastened to the under side of the seat, in such a manner and position that it will catch the perpendicular arm of G when the step is down, and hold it in this position until the seat be raised. The lifting of the seat will cause the step to rise immediately by setting free the arm of G from the spring Z, and allowing a weight, X, forming one piece with G and heavier than P, to fall.

I claim as my invention—

1. The combination of the water-closet bowl B, the seat S, set at the ordinary height of a

urinal, and the movable step P, balanced by the regulator G, or its equivalent, substantially as and for the purpose set forth.

2. The combination of the step P, the regulator G, the weight X, the spring Z, and seat S, substantially as and for the purpose set forth.

3. The combination of the water-closet bowl B, cutting through and projecting beyond the

upper part of riser R, with water-closet seat S and drop D, substantially as and for the purpose set forth.

JNO. PICKERING PUTNAM.

Witnesses:

GEO. T. TILDEN,

A. L. HAYES,

ARTHUR ROTCH.