(No Model.)

2 Sheets—Sheet 1.

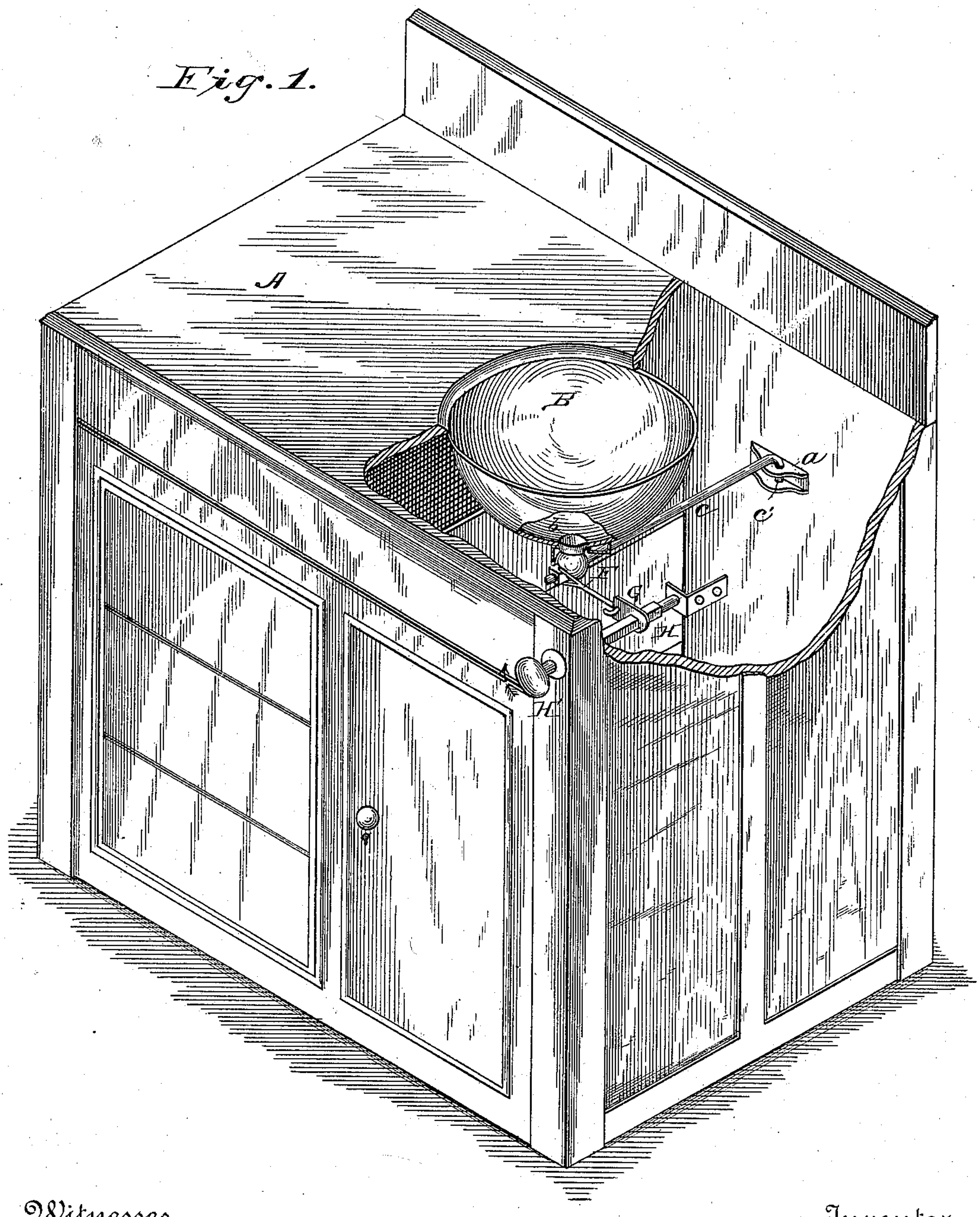
N. O. BOND.

WASH STAND BOWL.

No. 382,251.

Patented May 1, 1888.

Fig. 1.



Witnesses.

H. S. Rohrer.

Robt. H. Wiles.

Inventor.

Nathan O. Bond.

By his Attorney

Schuyler Duryee.

(No Model.)

2 Sheets--Sheet 2.

N. O. BOND.

WASH STAND BOWL.

No. 382,251. Patented May 1, 1888.

Fig. 2.

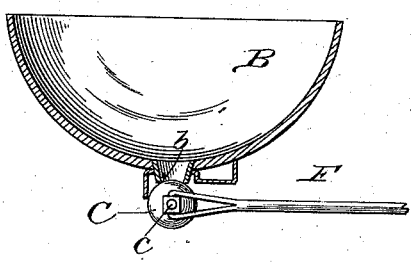


Fig. 3.

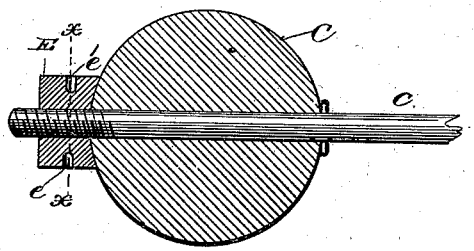


Fig. 4.

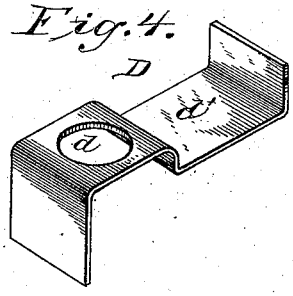


Fig. 6.

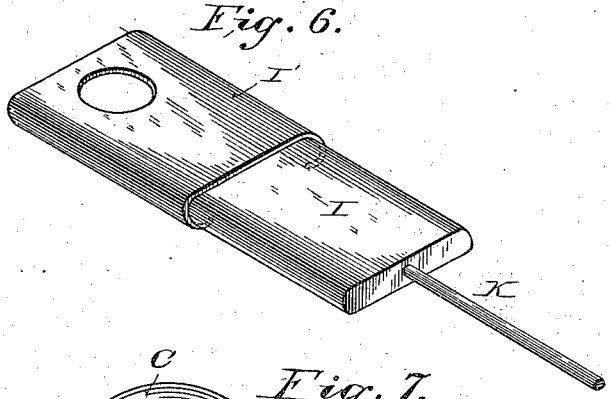


Fig. 5.

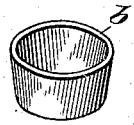
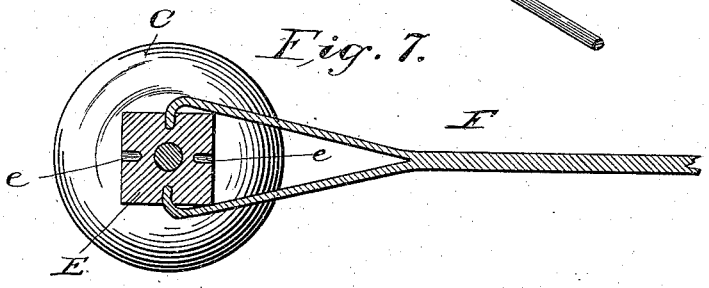


Fig. 7.



Witnesses.

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UNITED STATES PATENT OFFICE.

NATHAN O. BOND, OF FAIRFAX COURT-HOUSE, VIRGINIA, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE BOND FURNITURE IMPROVEMENT COMPANY, OF WASHINGTON, DISTRICT OF COLUMBIA.

WASH-STAND BOWL.

SPECIFICATION forming part of Letters Patent No. 382,251, dated May 1, 1888.

Application filed October 5, 1887. Serial No. 251,498. (No model.)

To all whom it may concern:

Be it known that I, NATHAN O. BOND, a resident of Fairfax Court-House, in the county of Fairfax and State of Virginia, have invented certain new and useful Improvements in Wash-Stand Bowls; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to improvements in bowls for wash-stands, and more particularly in devices for closing the discharge-openings of such bowls, and is fully described and explained in this specification, and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a wash-stand and bowl provided with one form of my improved device for closing the discharge-opening of the bowl, parts of the wash-stand being broken away to show the internal construction. Fig. 2 is a central vertical section of a bowl provided with a closing device of the same form illustrated in Fig. 1. Fig. 3 is an enlarged central section of the elastic ball-valve constituting a part of the device illustrated in Fig. 1, together with the rod on which it is mounted. Figs. 4 and 5 are perspective views illustrating parts of the device shown in Figs. 1, 2, and 3. Fig. 6 is a perspective view of a modified form of my invention; and Fig. 7 is a transverse vertical section through the line *x x*, Fig. 3.

In the views, A is a wash-stand of any known or desired construction.

B is a wash-bowl of any desired form mounted in said wash-stand in the usual manner, and having in its bottom a discharge-opening provided preferably with a downwardly-extending tube or funnel, *b*, which may be formed integrally with the bowl, or inserted in it, as illustrated. Below the lower end of the tube *b* is a preferably elastic ball, C, mounted on one end of a rod, *c*, whose opposite end is provided with a pivot, *c'*, which is journaled in a suitable bracket, *a*, attached to one of the walls of the wash-stand. The rod *c* is preferably of spring-wire, and the position of the rod and its pivot with reference to the tube *b* is such that in order to bring the ball into the position illustrated in Figs. 1 and 2, below the lower end of the tube, the end of the rod on which the ball is mounted must be sprung downward slightly, so that the elasticity of the rod presses the ball upward and holds it firmly against the lower end of the tube, thereby closing the tube securely. A guide, D, is fastened to the bowl, or to some attachment thereof, and is provided with an opening, *d*, which encircles the tube *b* when the guide is in position, the location of the guide with reference to the tube being such that when the rod *c* is swung about its pivot *c'* in such a way as to withdraw the ball C from its position below the mouth of the tube the ball rolls along the lower surface of the part *d'* of the guide, and is thus held in such a position that it may be readily returned to the lower end of the tube. The accidental detachment of the ball by slipping off the free end of the rod *c* is prevented by a nut, E, engaging the screw-threaded end of the rod and formed with openings or sockets *e* in its faces for the reception of the inwardly-turned ends of a bifurcated rod, F. (Shown in Figs. 1, 2, and 7.) The opposite end of the rod F is hooked or otherwise secured to the front end of a lever, G, mounted on the squared portion of a rod, H, whose ends are journaled in the walls of the stand, or in attachments fastened thereto. One end of the rod H projects through some portion of the wall of the wash-stand, and is provided with a knob, H', by means of which the rod may be rotated; and it is evident that the rotation of the knob H' and the rod H in the direction indicated by the arrow in Fig. 1 must raise the free end of the lever G and draw the free end of the rod *c* away from the tube *b* and toward the rod H, and thus withdraw the ball C from its position below the mouth of the tube *b*, the ball in its withdrawal being rotated on the rod *c* and rolled along the lower surface of the part *d'* of the guide D. It is also evident that a reverse rotation of the knob H' and the rod H will return the ball to the position illustrated in Figs. 1 and 2 and close the discharge-opening of the bowl.

Fig. 6 illustrates a modified form of closing

device, in which the ball is replaced by an elastic slide, I, fitting closely in a guide, I′, of a shape corresponding to that of the closing device and actuated by means of a rod, K, corresponding in function and operation to the rod F. (Illustrated in Figs. 1, 2, 3, and hereinbefore described.)

The operation of this device is sufficiently evident, since it merely serves as a cover for the lower end of the tube or discharge-opening of the bowl, and is made to open or close such opening by a reciprocal movement imparted to it by the same mechanism illustrated in the drawings for the operation of the device already described. The forms illustrated, and hereinbefore described, are intended by me merely as types of a class which I intend to include in my invention and to cover by the claims of this application.

It is evident that any skilled mechanic may construct various modifications of the devices shown herein, and that all of said modifications may have practically the same operation and produce the same result; and I do not therefore intend to limit myself to either or all the forms herein illustrated and described.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with a bowl having a discharge-opening in its bottom, of an adjustable elastic cover suspended outside of said bowl and swinging in approximately the plane of said opening, said cover being adapted, when in one position, to close said discharge-opening.

2. The combination, with a bowl having a discharge opening in its bottom, of an elastic cover lying outside of said bowl and revoluble about a vertical axis, and an adjustable elastic support on which said cover is mounted, whereby said cover may be brought into position to close said discharge-opening, and may in such position be pressed against the bowl only by its own elastic force and that of said support.

3. The combination, with a bowl having a discharge-opening in its bottom, of an adjustable elastic cover lying outside of said bowl, and adapted when in one position to close said discharge-opening, and moving substantially in the plane of said opening, a longitudinal reciprocating rod attached to said cover and imparting its own reciprocal motion thereto, and means, substantially as shown and described, for imparting motion to said rod, substantially as and for the purpose set forth.

4. The combination, with a bowl having a discharge-opening in its bottom, of an elastic ball lying below said discharge-opening, a swinging rod on which said ball is mounted, the plane of motion of said rod being approximately tangent to said bowl, and means, substantially as shown and described, for actuating the free end of said rod and bringing said ball into or withdrawing it from a position immediately below and in contact with the walls of said opening, substantially as and for the purpose set forth.

5. The combination of the bowl B, having an opening, *b*, in its bottom, the rod *c*, swinging in a plane substantially perpendicular to the axis of said opening, the ball C, mounted on the free end of said rod, the guide D, and means, substantially as shown and described, for moving the free end of the rod *c*, substantially as and for the purpose set forth.

6. The combination of the bowl B, having the discharge-opening *b* in its bottom, the swinging rod *c*, oscillating in a plane intersecting the axis of said opening, and the elastic ball C, mounted thereon, the rotating rod H, and the lever G, rigidly mounted thereon, and the rod F, connecting the free end of the lever G with the free end of the rod *c*, whereby the rotation of the rod H actuates the free end of the rod *c*, substantially as and for the purpose set forth.

7. The combination, with the bowl B, having an opening, *b*, in its bottom, of the swinging rod *c*, oscillating about a vertical axis, the ball C, mounted thereon, the nut E, having sockets *e* in its walls, the rotating rod H and lever G, and the rod F, having one of its ends connected with the free end of the lever G, and provided at its opposite bifurcated end with inwardly-turned points entering the sockets *e* in the nut E, substantially as and for the purpose set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

NATHAN O. BOND.

Witnesses:
ROBINSON WHITE,
FRANK G. MATTINGLY.