

(No Model.)

N. SCHWAB.

GAS TRAP COVER FOR WASH BASINS.

No. 324,492.

Patented Aug. 18, 1885.

Fig. 1.

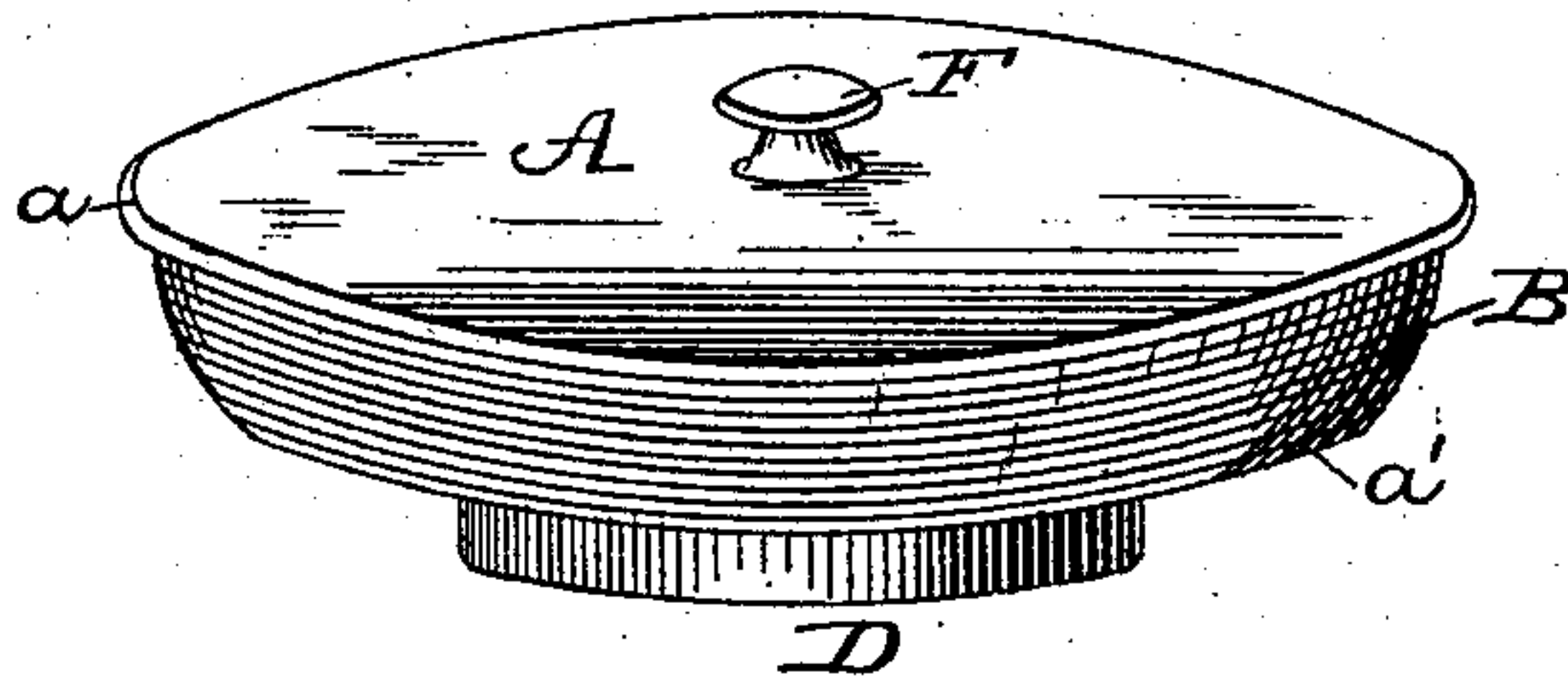


Fig. 2.

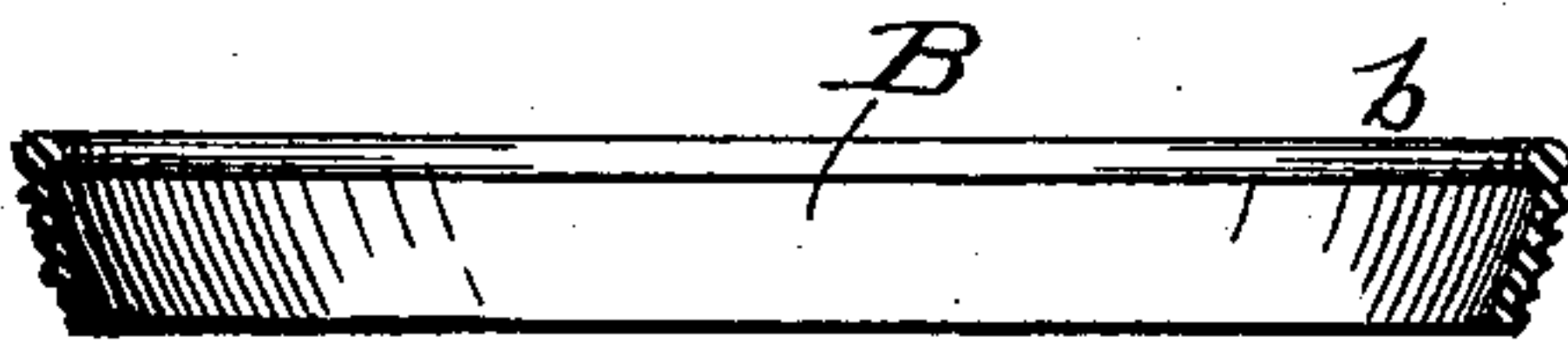


Fig. 3.

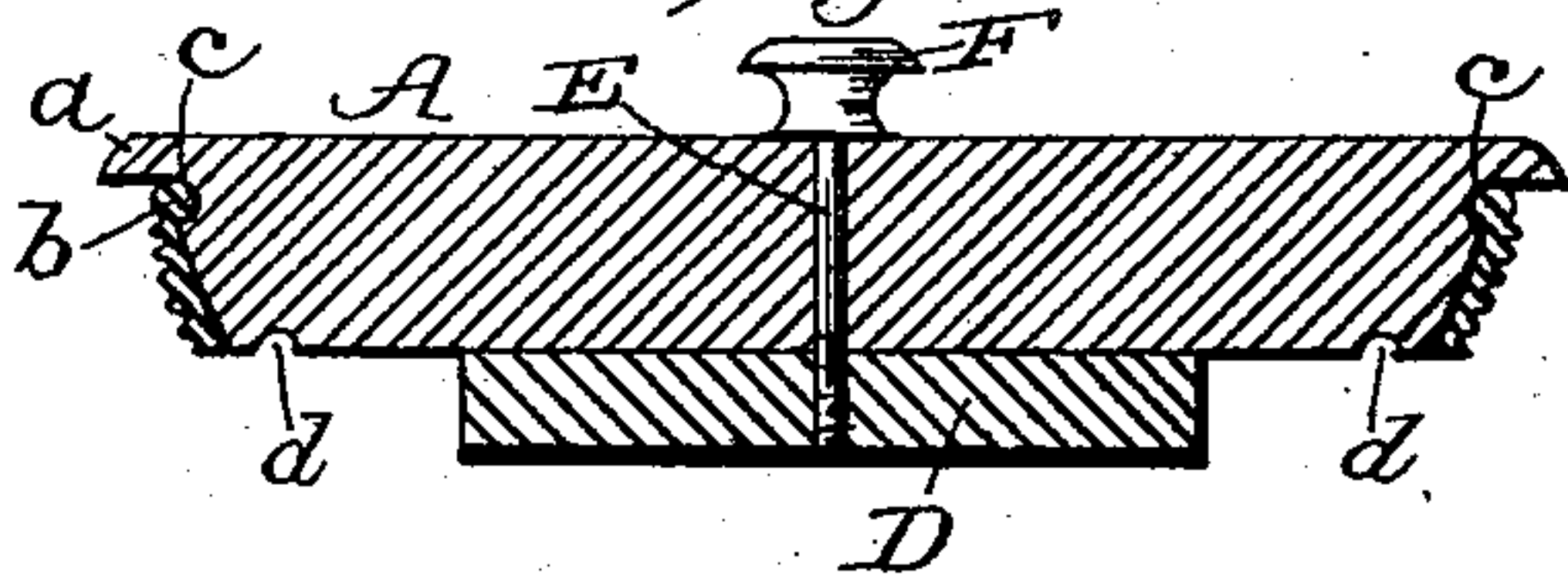


Fig. 4.

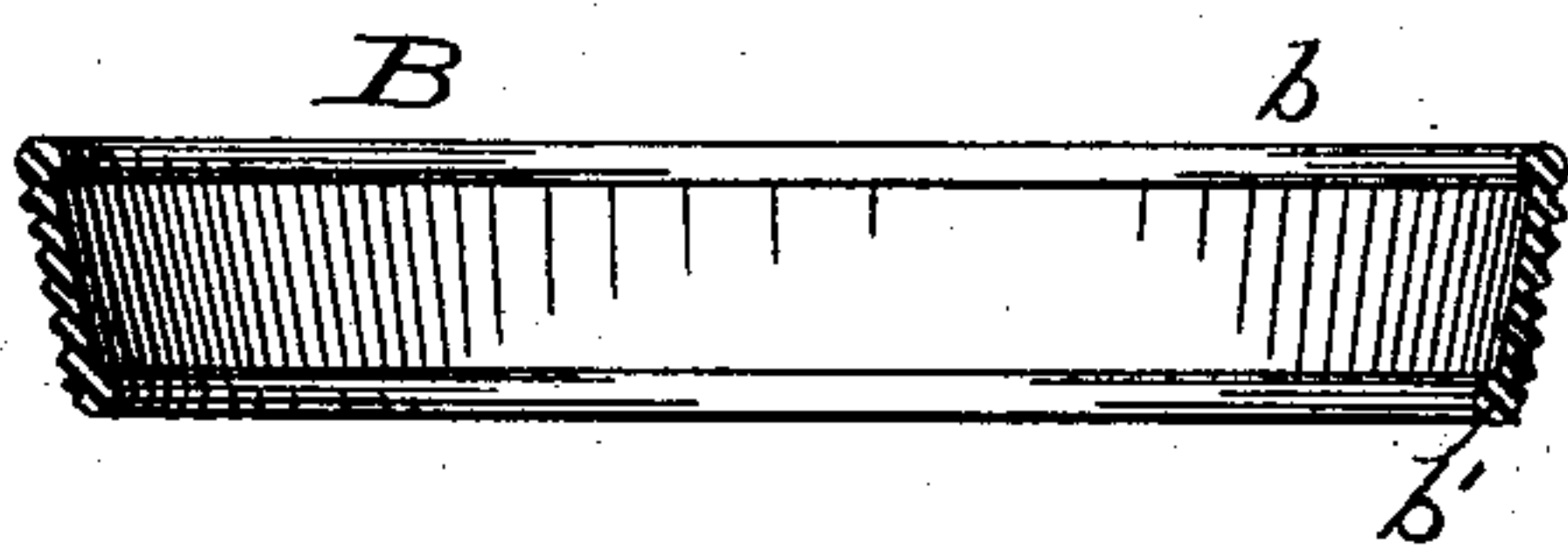
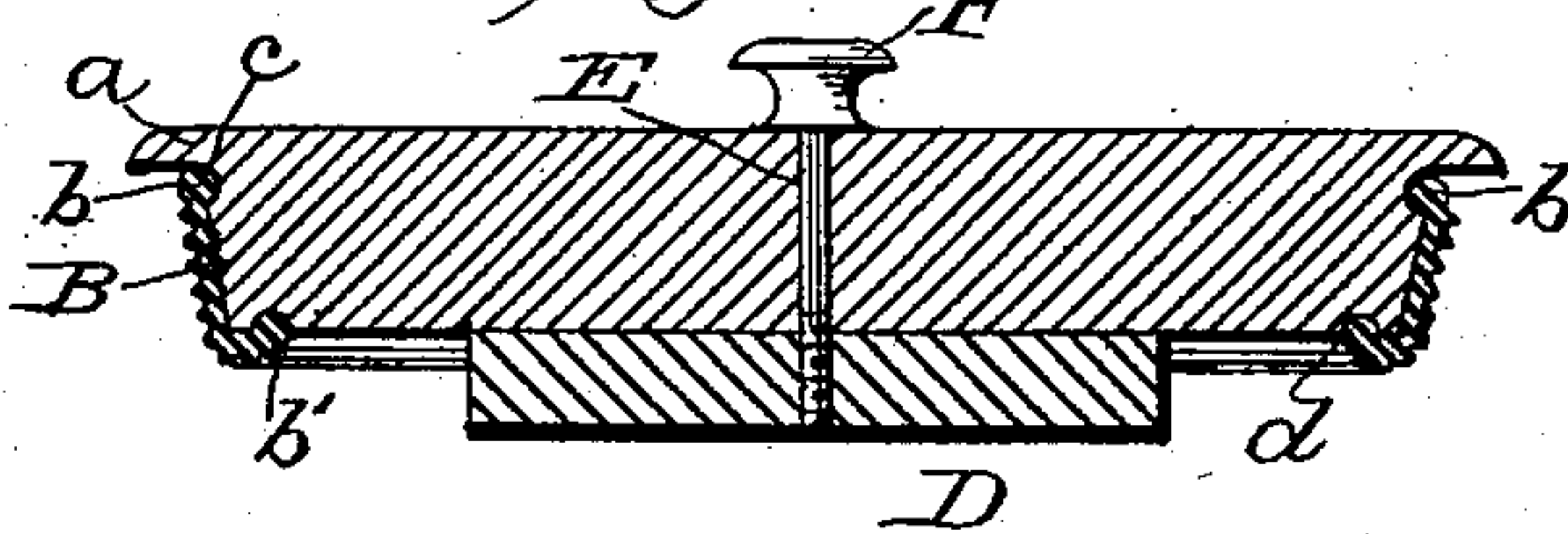


Fig. 5.



WITNESSES

Frank M. Burnham.
W. J. Collier.

INVENTOR

Nathan Schwab
By
M. D. Peck
Attorney

UNITED STATES PATENT OFFICE.

NATHAN SCHWAB, OF NEW YORK, N. Y.

GAS-TRAP COVER FOR WASH-BASINS.

SPECIFICATION forming part of Letters Patent No. 324,492, dated August 18, 1885.

Application filed June 22, 1885. (No model.)

To all whom it may concern:

Be it known that I, NATHAN SCHWAB, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Gas-Trap Covers for Wash-Basins; 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 appertains to make and use the same.

My invention relates to that class of safety-covers for wash-basins intended to prevent the escape of noxious and poisonous gases from the street-sewer into the bed-chamber and other apartments of the house; and it consists in the construction hereinafter described, and more particularly pointed out in the claims. It has become a well-established fact that many kinds of fevers and other low types of disease are contracted in the dwelling and more especially in the sleeping-apartment where there are stationary wash-stands the pipes of which are directly connected with the street or main sewer, from the escape of poisonous gases owing to defective trapping of the pipes; and as it is difficult to always definitely determine whether the trap in the pipe is proof against the escape of sewer-gas, my invention is for the purpose of doubly securing the safety of the occupant of the room against the effects of any escape of the poisonous gas that might under any circumstances occur.

Reference being had to the accompanying drawings, Figure 1 represents a plan view of my improved cover ready for use. Fig. 2 shows a section of a re-enforced band that I apply to the cover. Fig. 3 shows an application of the band to the cover. Fig. 4 shows a band re-enforced at each edge, and Fig. 5 shows an application of said band to the cover.

A represents a cover having a flange, *a*, with an inclined or conical-shaped projection, *a'*, on its under side adapted to fit into the top of any ordinary wash-basin. At or near the upper edge of the projection a groove, *c*, is formed which is adapted to receive and hold an enlarged or re-enforced portion of the upper edge of an elastic band while its lower portion extends over the inclined projection,

and on the under side of the projection of the cover a groove, *d*, is formed for the reception of a re-enforced portion on the lower edge of the band when it may be desirable to secure the band at both the upper and lower edges by this means.

B represents my improved band, which is of thickened rubber or any other desirable elastic material, and is slightly conical in shape, having its lower edge inclined inward from a vertical line with that of the upper edge adapted to fit on the conical projection *a'* of the cover. The outer surface of the band is made with corrugations running in a lateral direction, or around the band, to enable it to take a more secure hold upon the wash-basin and to fill up any unevenness that may exist in the surface of the basin, and thereby provide a more secure trap-cover than has heretofore been made. The edge of the band is thickened or re-enforced at *b* to enable it to fit into the groove *c* when it is stretched over the projection *a'* of the cover to more securely hold the band in place on the projection when the cover is removed, as the tendency of the rubber to adhere to the basin is otherwise liable to draw the band off the projection when the cover is removed.

Aside from holding the band on the cover by means of the re-enforced edge *b* it may also be secured to the projection below the groove by glue or other adhesive substance; but ordinarily this is not necessary.

If desired, the band B may be re-enforced also at its lower edge, as shown at *b'*, and adapted to be stretched over the edge of the bottom of the flange or projection to fit into the groove *d*. By this means of securing the band by re-enforcements in grooves at its upper and lower edges the liability of displacement of the band by crowding it up on the projection when the cover is inserted in the mouth of the basin or of pulling it off when it is removed is obviated.

To more securely hold the cover in place when on the basin, I affix a weight, D, of iron, lead, or other heavy material to the bottom thereof by means of a screw-threaded rod, E, passing through the cover and screwed into the weight or attached thereto in any other convenient way.

On the outer end of rod E, I attach a handle or knob, F, by which the cover is held in the hand.

I am aware that thin smooth rubber has heretofore been placed over the edge of a cover, and also that a rubber tube has been used as a gasket; but these have been found defective for that they are not adapted to fit the frequent unevenness of the mouth of the basin or vessel and are liable to be misplaced to some degree when inserting the cover and thereby allow the escape of gas, and I do not therefore claim these constructions; but

What I do claim, and desire to secure by Letters Patent, is—

1. A gas-trap cover for wash-basins having an inclined or conical projection on its under side with a corrugated elastic band secured thereto, substantially as shown, and for the purpose set forth.

2. The combination, in a gas-trap cover for a wash-basin, of a cover having a flange with an inclined or conical projection on the under side thereof, with a groove at its upper edge, and an elastic band re-enforced at its upper edge and adapted to fit into said groove with its lower portion extended over the inclined projection, as set forth.

3. The combination, in a gas-trap for wash-basins consisting of a cover having an inclined or conical projection on its under side, with a groove at the upper edge of the pro-

jection and a corrugated elastic band re-enforced or thickened at its edge to fit said groove, with its lower portion extended over the inclined projection, substantially as shown, and for the purpose set forth.

4. A gas-trap cover for wash-basins having an inclined or conical projection on its under side with a groove at the upper edge and on the under side of the projection, and an elastic corrugated band re-enforced at its edges and adapted to be stretched over the projection and fit into said grooves, substantially as shown, and for the purpose set forth.

5. In combination with a gas-trap cover for wash-basins, consisting of a cover having an inclined projection on its under side with a groove at the upper edge, and on the under side of the projection having a re-enforced elastic band in said grooves and over the projection, of a weight secured to the under side of the cover, as set forth.

6. A gasket for a cover of a wash-basin, consisting of a corrugated elastic band re-enforced at its edges, as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

NATHAN SCHWAB.

Witnesses:

M. J. SULLIVAN,
H. W. ADAMS.