C. E. DeVALIN.

Device for Preventing the Escape of Sewer-Gas from Basin Overflows.

No. 213,977. Patented April 8, 1879.

Fig. 1.

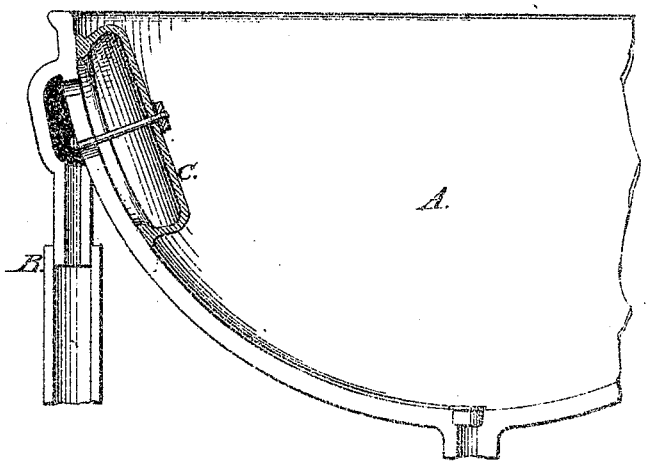


Fig. 2.

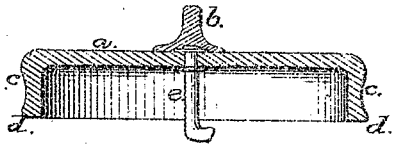
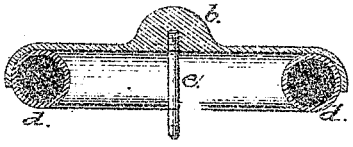


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES E. DE VALIN, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN DEVICES FOR PREVENTING THE ESCAPE OF SEWER-GAS FROM BASIN-OVERFLOWS.

Specification forming part of Letters Patent No. **213,977**, dated April 8, 1879; application filed April 9, 1878.

To all whom it may concern:

Be it known that I, CHARLES E. DE VALIN, of Baltimore, in the county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Vent-Closers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to a device for closing the openings in wash-basins and other household furniture used in sanitary construction through which there is a liability of an escape of gas, deleterious to health. It is to be used more particularly to cover the openings provided for the overflow in permanent wash-basins and sinks.

It consists of a hollow cup-shaped cap, formed of india-rubber preferably, leather, or other elastic material, the base of which will conform to the surface against which it is intended to rest.

In connection with the cap mentioned is a hook, the shank of which is securely fastened to the top to said cap. The object of said hook is to anchor said cap to the bars or spaces between the openings or perforations at the mouth of the overflow-pipe.

In the accompanying drawings, Figure 1 is a sectional view, showing the application of the device in one form to the overflow-openings of a permanent wash basin. Fig. 2 is an enlarged view of the cap of a slightly-different form. Fig. 3 is a section of a cap having the base of tubular form.

Similar reference-letters denote like parts in all of the figures.

A is a section of a wash-basin with perforations near its upper edge, which open into the overflow-pipe B. C is the cap, fastened to one of the spaces between two of the perforated openings in the side of the wash-basin.

In Fig. 2, *a* is the crown of the cap, which is in the form of a disk, with a hold, *b*, which answers the purpose of a handle.

C is the rim of the cap, which is provided with an enlargement at the base *d*, said base having an even or smooth surface to form a perfect joint when bearing against the concave surface of the basin.

In the crown of the cap is secured, by any suitable means, the hook *e*. This hook may be of any required length, and its bend to be fashioned to suit the substance to which it is to be fastened.

In securing the cap to prevent the escape of gas from the sewer I take it in hand, with the hook downward, and press it firmly against the surface of the bowl or basin until the hook finds one of the openings. The cap being of elastic material, when the pressure is removed it will return toward its natural position or shape, and the hook will take hold of the surface with which it comes in contact on the return of the cap and press the base of the cap, bearing hard against the surface of the basin to form an air-tight joint to prevent the escape of gas, &c.

In Fig. 3 I have shown another form of cap, with a tubular base, the crown being formed of a separate piece, which may be of hard material, if preferred.

I have several other forms of caps, and among them one of hemispherical form, with a disk of hard material to form the crown, to which may be fastened the hook described, and another in which is the simple disk of elastic material, with the hook, with or without the rims.

I do not wish, however, to be confined to any particular form of cap, as any cup or cap-shaped figure composed entirely or in part of elastic material, in combination with the hook, could be used to the desired end.

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

In a device for closing the openings of pipes against an escape of sewer-gas, the hollow cap formed of elastic material, or with a bearing-surface of elastic material that will conform to the surface against which it is to bear, and provided with a hook secured to its crown to hold said cap against its bearing-surface to form an air-tight joint, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

CHAS. E. DE VALIN.

Witnesses:
W. S. LEVENS,
JAS. K. FRANKLIN.