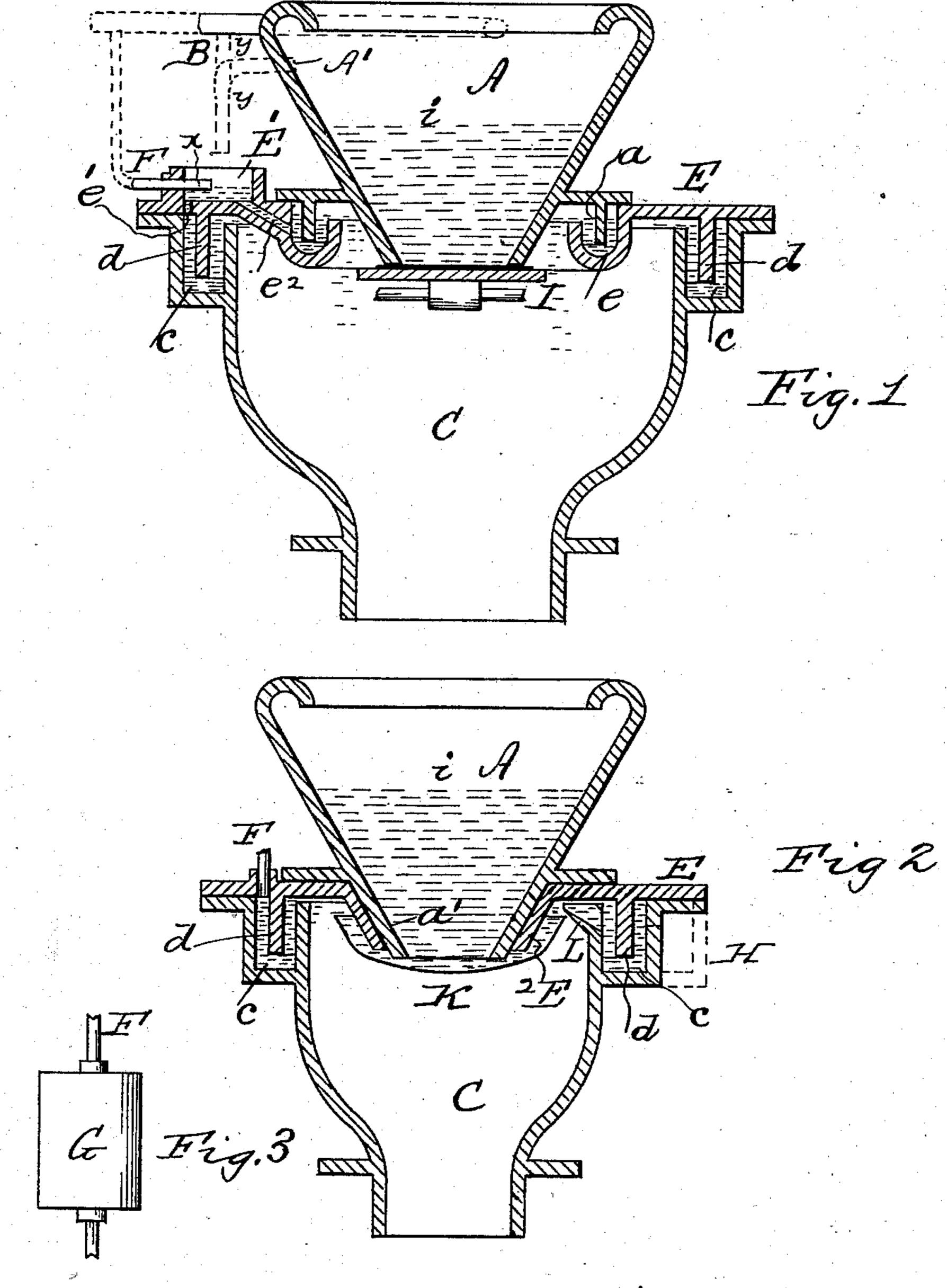
(No Model.)

C. F. PIKE. WATER CLOSET.

No. 271,915.

Patented Feb. 6, 1883.



Witnesses: Chas Fortong WH. Vaw Hong Inventor, Chas. F. Pike, By S. J. Van Stavoren Othorney

United States Patent Office.

CHARLES F. PIKE, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE NATIONAL ANTI-SEWER GAS COMPANY, OF CAMDEN, NEW JERSEY.

WATER-CLOSET.

SPECIFICATION forming part of Letters Patent No. 271,915, dated February 6, 1883.

Application filed August 7, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. PIKE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Water-Closets, of which the following is a specification, reference being had therein to the accompanying drawings, wherein—

bowl and container embodying my invention. Fig. 2 is a like view of a modification. Fig. 3 is a detail elevation of reservoir for holding disinfecting material, and Fig. 4 is a broken plan of a part of the container provided with

a pocket for receiving a disinfectant.

My invention has relation to water-closets, and has for its object to provide a running-fluid seal joint or joints between the bowl and the container to prevent the escape of sewergas and excrementitious odors therefrom.

My invention has for its further object to cause such fluid to pass into or over a disinfecting material before flowing to said joints to provide a disinfecting fluid seal therefor.

My invention accordingly consists of a water-closet and its container having the joints between said parts arranged substantially as hereinafter described and claimed, whereby a running-fluid seal is provided therefor, and, in combination therewith, of a reservoir for holding a disinfectant.

My invention further consists in the novel construction, combination, and arrangement of parts, as hereinafter specifically described

and claimed.

Referring to Fig. 1 of the accompanying drawings, A represents the bowl, having water-supply and flushing pipe B, of suitable con-

40 struction and arrangement.

Cindicates the container, of any suitable configuration, having a groove, c, formed on its top edge all around the same. Into said groove depends a flange, d, cast on container-lid E. The latter is also formed with a groove, e, into which enters a flange, a, depending from the bowl A, as shown.

E' represents an open or closed top recess or chamber on lid E, having openings or ducts e'

e², leading respectively to grooves c and e, so 50 that if water, mercury, or other suitable fluid is poured into chamber E' such fluid will pass through ducts e' e^2 to the grooves c e, filling the latter to any desired height, or sufficiently to immerse the flanges da and seal said grooves, 55 thereby preventing sewer-gas or odors of excrementitious matter escaping from or passing therethrough. If the fluid is poured into said grooves, as described, mercury may be employed to effect such seal; but I prefer to 60 use water for such purpose, and in that case a pipe, F, from water-supply tube B connects with the chamber E', as shown in full lines x, Fig. 1, or as indicated by dotted lines y. Said pipe F may be of very small bore to admit of 65 a minute flow therethrough, or the cock of the pipe B and the branch F may be arranged as shown in an application filed by me October 5, 1881, in order to provide for such small flow for branch F. When the latter is used a con- 70 stant flow of water is running into and out of the grooves ce to form therefor a running-water seal. The branch F may have a reservoir, G, in its path, as shown in Fig. 3. In said reservoir is placed a solid or a fluid disinfect- 75 ant, which commingling with the water as it flows into and through said reservoir, a disinfecting running-water seal is thereby provided for the grooves; or said reservoir may be dispensed with and a pocket, H, formed on the 8c container may be substituted therefor, as shown in Figs. 2 and 4, the disinfectant being placed in pocket H and pipe F, leading thereto. The bowl A is provided with a clapper or valve, I, having the usual or other operating mechan- 85 ism, the latter not being shown in the drawings, to form the customary water-seal i for bowl A.

In Fig. 2 I have shown my invention applied to a pan-closet, in which case the flange 90 a on the bowl is dispensed with, as is also the groove e in container-lid E. I lieu thereof, the latter is provided with an annular flange, E², surrounding the lower end, a', of the bowl. Said flange E² and end a' enter the pan K, as 95 plainly indicated in said figure, and are sealed by the water in said pan. A channel or lip, L, on the container conveys water from groove

c to said pan. The pipe F leads direct to groove c, as shown, thereby dispensing with chamber E'. If a running-water seal be not used for bowl and pan K, the channel or lip L 5 is arranged as above described. If, however, a running-water seal be employed for said pan, the lip L may be secured to the pan and project into groove c to supply the latter with such sealing-fluid.

If a running-water seal is provided for the bowl shown in Fig. 1, an overflow-pipe, A', will be employed therefor, and such pipe will then be conducted to chamber E' and the pipe F dispensed with, as indicated by dotted lines 15 y y, said figure. Such overflow passes from

bowl A to chamber E', and thence to the sealjoints, as above set forth.

What I claim as my invention is— 1. The combination, with a water-closet bowl, 2c of a container and lid, having running-water seal-joints between said parts, substantially as

shown and described.

2. The combination, with bowl A, having flangea, of a container, C, having groove c, and

a lid, E, having flange d and groove e, substan- 25

tially as shown and described.

3. The combination of bowl A, having flange a, the container C, with groove c, and the lid E, having flange d, groove e, recess E', and communicating channels between said recess 30 and grooves e c, substantially as shown and described.

4. The combination, in a water-closet, a bowl, and its water-supply pipe, of a container and lid provided with seal-joints, substantially as 35 shown and described, and a pipe-connection between said joints and the water-supply pipe, substantially as shown and described.

5. In combination with container C and lid E, provided with a seal-joint, of a pipe, F, and 40 disinfectant-holding reservoir, substantially

as shown and described.

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

CHARLES F. PIKE.

Witnesses:

S. J. VAN STAVOREN, CHAS. F. VAN HORN.