

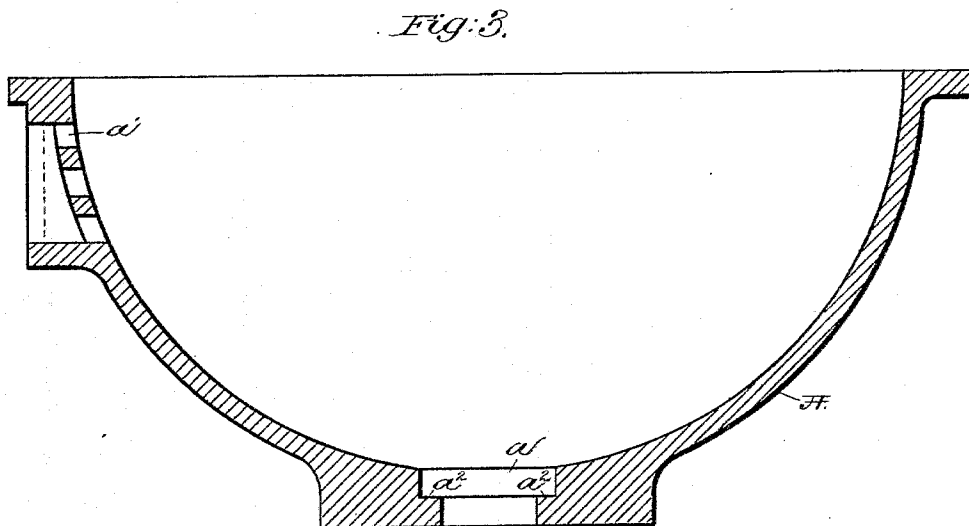
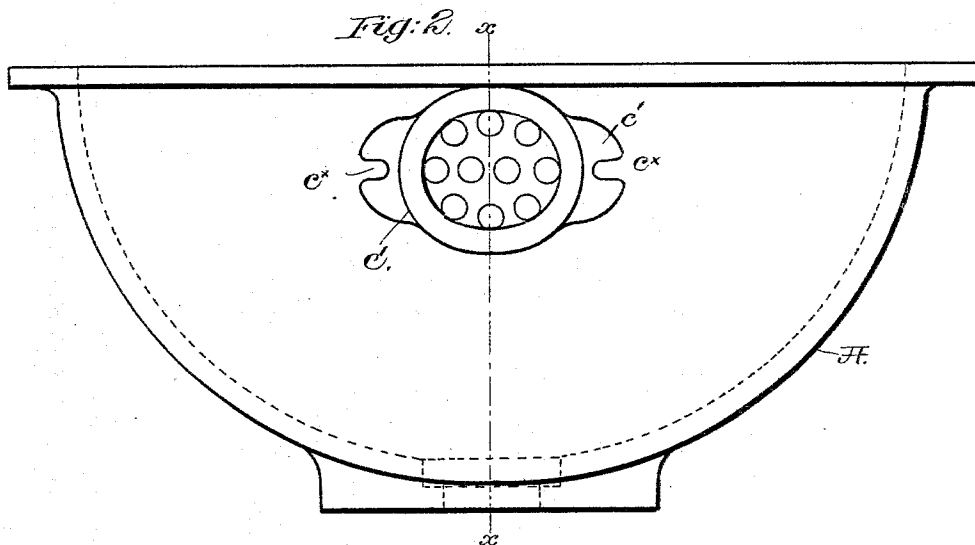
(No Model.)

3 Sheets—Sheet 2.

A. P. CREQUE.
WASHBOWL.

No. 531,992.

Patented Jan. 1, 1895.



WITNESSES:

Howard T. Eaton.
John F. C. Proctor.

INVENTOR

Allen P. Creque

BY

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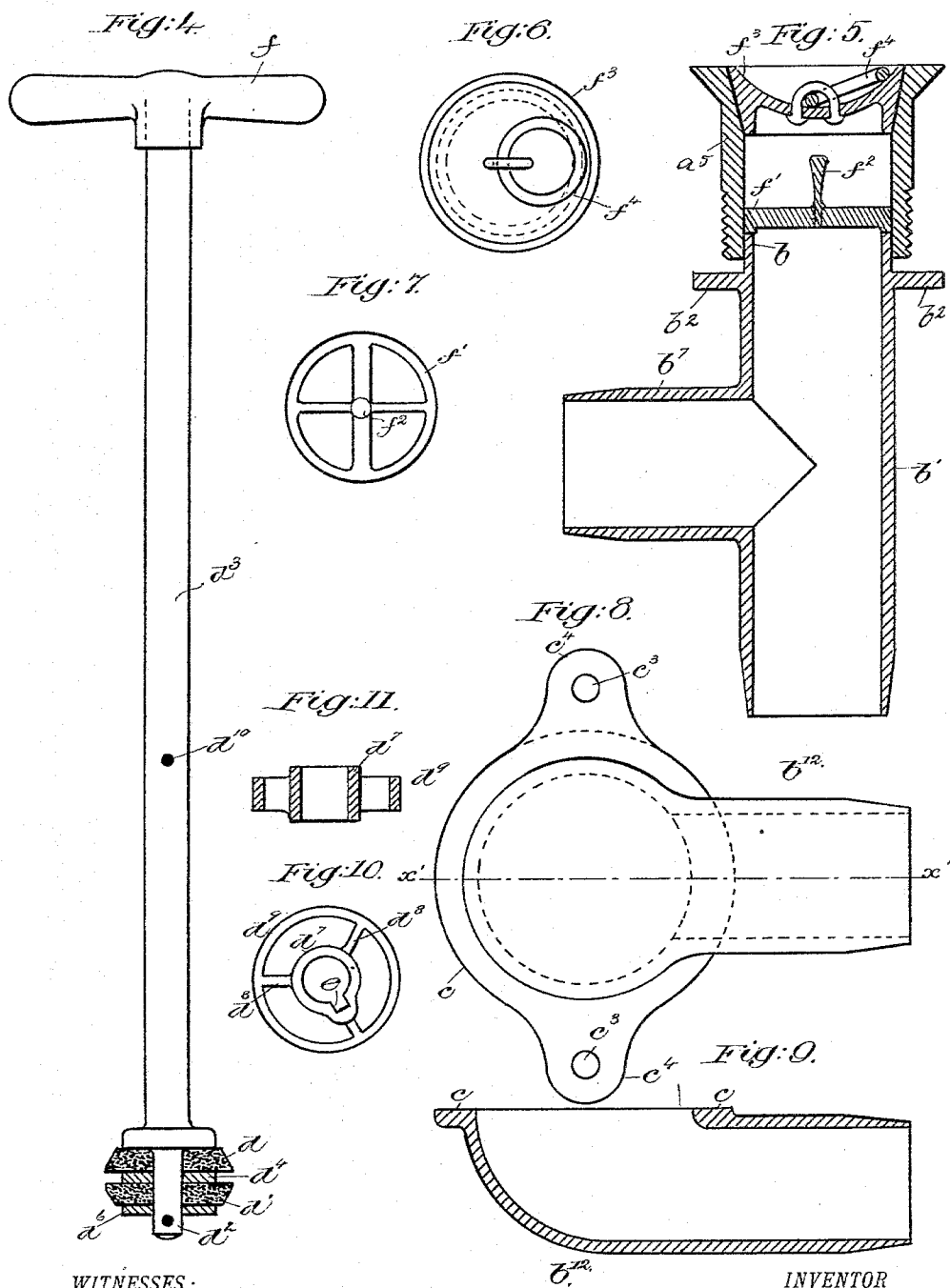
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Howard F. Eaton.
John F. C. Pringle.

INVENTOR

Allen P. Creque.
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UNITED STATES PATENT OFFICE.

ALLEN P. CREQUE, OF NEW YORK, N. Y.

WASHBOWL.

SPECIFICATION forming part of Letters Patent No. 531,992, dated January 1, 1895.

Application filed June 28, 1887. Serial No. 242,709. (No model.)

To all whom it may concern:

Be it known that I, ALLEN P. CREQUE, of New York, county of New York, and State of New York, have invented an Improvement in Washbowls, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to wash-bowls and has for one of its objects to improve the construction of the same, whereby the outlet of the said bowl may be rendered air or gas tight to prevent the admission of sewer and other gases into the house during the night. This feature of my invention I accomplish by means of a sealing device to be described, which is adapted to be inserted into the main outlet pipe below the point where the overflow pipe empties therein, the said sealing device fitting the said main outlet pipe gas and water tight so that gas is prevented from passing up into the bowl, the over-flow and main outlet pipe above the said seal being preferably filled with water to render the obstruction to the passage of sewer gas absolutely sure, the said water being prevented from being siphoned out of the said trap and pipes by the said seal.

My improved sealing device is adapted to be removed in the day time, a removable strainer or sieve being then placed in the outlet pipe, the said strainer being removed when the sealing device is inserted therein.

My improved sealing device may also be employed to remove any dirt, grease, &c., which may adhere to the inside of the outlet pipe, the said dirt, grease, &c., after lapse of time putrifying and thereby giving rise to deleterious odors and gases which are unwholesome and unsanitary.

The particular features in which my invention consists will be pointed out in the claims at the end of this specification.

Figure 1 is a vertical section of a wash bowl constructed in accordance with my invention and provided with my improved sealing device, the latter being shown in elevation; Fig. 2, a side view of the bowl looking toward the right in Fig. 1 the over-flow pipe being omitted; Fig. 3, a section of Fig. 2 on line $x-x$; Fig. 4, an enlarged detail of the sealing device removed from Fig. 1; Figs. 5, 6 and 7 details to be referred to; Fig. 8, an under side

view of the portion of overflow pipe which is fastened to the bowl; Fig. 9, a section of Fig. 8 on line $x'-x'$, and Figs. 10 and 11, details to be referred to.

The bowl A, provided at its bottom, see Fig. 3, with a main outlet a , and at its sides with an over-flow passage a' may be composed of porcelain or other material such as now commonly used. The outlet passage a is contracted or made of smaller diameter for a portion of its length, to form a shoulder a^2 to support a packing ring a^3 , see Fig. 1, the said packing ring being shown in section as a right-angled triangle, the hypotenuse a^4 of which forms a seat for a nozzle a^5 , which is extended from inside the bowl A through the outlet passage a , and beyond the outside of the said bowl.

The portion of the nozzle a^5 projecting beyond the bowl A is screw threaded as shown on its outside, to be engaged by a threaded ring a^6 having a flange a^7 , a packing a^8 being interposed between the said ring and the bowl A.

The nozzle a^5 receives within it one end b , see Figs. 1 and 5, of a pipe section b' , having a flange b^2 , between which and the ring a^6 is another packing ring b^3 , the pipe section b' and packing ring b^3 being secured in position by a clamping device herein shown as a ring b^4 fastened to the clamping ring a^6 by bolts b^5 extended through the said clamping rings and secured by nuts b^6 , the said packing rendering the bowl water tight at its main outlet. The pipe section b' is provided with an angular extension or branch b^7 united as shown by a wipe joint b^8 to one end of an overflow pipe b^9 , the other end of which is united by a wipe joint b^{10} to one end of the overflow section b^{12} . See Figs. 1, 8 and 9.

The over-flow section b^{12} , see Figs. 8 and 9, has a flange c made to fit a shoulder or flange c' around the overflow passage a' , a packing ring c^2 being interposed between the shoulder c' and flange c , the said packing ring and overflow section b^{12} as shown being secured to the bowl A by bolts not shown, but which are inserted through holes c^3 , see Fig. 8, in the ears c^4 of the flange c , and through holes or openings c^x in the flange c' . See Fig. 2.

The pipe section b' has connected to or forming part of it one end of a pipe as c^5 , see Fig. 1, which is extended into an opening in

a cap c^6 , a second opening in said cap having connected to it a bent pipe c^7 , the said cap having an outlet which is closed by a threaded plug c^8 , the pipes c^5 c^7 and cap c^6 forming a trap of ordinary form and such as now commonly used in connection with wash bowls and sinks.

To prevent the passage of sewer gas through the trap referred to and into the room or closet in which the wash-bowl may be located, I have provided a sealing device by which the pipe b' or the pipe c^5 below the branch b' is rendered gas and water tight.

The sealing device referred to, see Figs. 1 and 4, is herein shown as composed essentially of two rings or disks d, d' , preferably of rubber, having a central hole through which is extended a foot d^2 of a spindle or stem d^3 , the said rings or disks being separated by a washer d^4 and being secured on the said foot, as shown, by a nut d^5 , a washer d^6 being shown interposed between the said nut and the disk d' . The rings or disks d, d' , are preferably beveled at their edges or periphery in opposite directions. The spindle or stem d^3 will preferably have upon it a collar d^7 , see Fig. 10, joined by radial ribs d^8 to a ring d^9 , the latter being designed to rest upon the upper end b of the pipe section b' to form with a pin d^{10} on the spindle d , a stop for the said spindle when the latter is in its elevated position, shown in Fig. 1. The collar d^7 has a groove or notch e through which the pin d^{10} may be passed to change the position of the disks d, d' , in the pipes b' and c^5 .

As shown in Fig. 1 the spindle d^3 and the attached disks d, d' , are in the position to be occupied by them at night time when it is desired to prevent the admission of sewer gas into the house, the pin d^{10} being above the collar d^7 and the spindle turned so as to bring the said pin out of line with the groove or notch e , the said pin resting upon the said collar and serving to support the said spindle and disks in elevated position.

The disks d, d' , fit the pipe b' gas tight, so that any gas in the pipe c^5 is prevented from passing up above the said disks, and the said disks also prevent the water either in the pipe b' above the said disks or in the overflow pipe or bowl A or in the trap below the said disks from being siphoned off or evaporated.

During the day-time, the sealing device is removed, the pin d^{10} being placed in the dotted line position shown in Fig. 1, and the spindle and attached disks and also the collar are removed by withdrawing the said spindle by means of the handle f .

In the daytime an ordinary strainer f' , such as shown in Fig. 7, may be seated upon the end b of the pipe section b' , it having a handle f^2 if desired, by which it may be easily removed as shown in Fig. 5.

The outlet passage a may be closed, when it is desired to use the bowl in the day time, by a plug f^3 fitted into the nozzle a^5 , and having a ring f^4 by which it may be removed.

When desired the pipes b' and c^5 may be cleansed from dirt and grease by working the spindle d^3 up and down in the said pipes, the disks d, d' , removing the said dirt or grease adhering to the sides of the said pipes.

I prefer to employ a sealing device composed of two disks but it is evident one disk may be dispensed with.

I claim—

1. A wash bowl, an outlet nozzle therein, an outlet pipe of uniform diameter from the nozzle to the bend of the usual trap, and an overflow pipe opening into the outlet pipe below the bowl, combined with a sealing and cleaning device, consisting of a suitable number of flexible disks, and a spindle to which they are affixed, said spindle being of sufficient length to be worked with its disks up and down the entire length of the outlet pipe from the outlet nozzle to the trap and also being freely removable at pleasure together with its flexible disks from the pipe and bowl, substantially as described.

2. The bowl A, nozzle a^5 , packing a^3 interposed between said nozzle and bowl, ring a^6 , packing a^8 interposed between the ring a^6 and bowl A, clamping ring b^4 and packing b^3 , combined with the pipe section b' having a flange and an end b to fit the nozzle, and with means to fasten the said rings together, substantially as described.

3. The bowl, the nozzle a^5 , and the independent pipe section b' and the pipe c^5 , the interior of the pipe section b' and the interior of the pipe c^5 being flush to form a uniform continuous passage, combined with a removable sealing device comprising a ring of elastic or yielding material and a spindle or stem d^3 , the said removable sealing device being capable of effectively cleansing the outlet pipe, substantially as described.

4. The bowl, its nozzle provided with an ordinary plug-seat and adapted to receive a removable strainer, an outlet pipe, and means to connect it with the nozzle, the said outlet pipe being substantially straight and of uniform diameter from the nozzle to the bend in the usual trap, and adapted to receive a combined sealing and cleaning device consisting of a suitable number of disks and a spindle to which the disks are secured, substantially as and for the purpose described.

5. A wash bowl having an outlet pipe of uniform diameter, and an overflow pipe connected to it, combined with a sealing device comprising a disk or ring of flexible material and a spindle and a stopping device, the said sealing device and its stopping device being bodily removable freely and at pleasure through the bowl, substantially as described.

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

ALLEN P. CREQUE.

Witnesses:

JAS. H. CHURCHILL,
C. M. CONE.