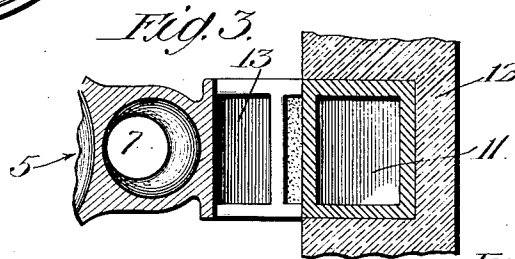
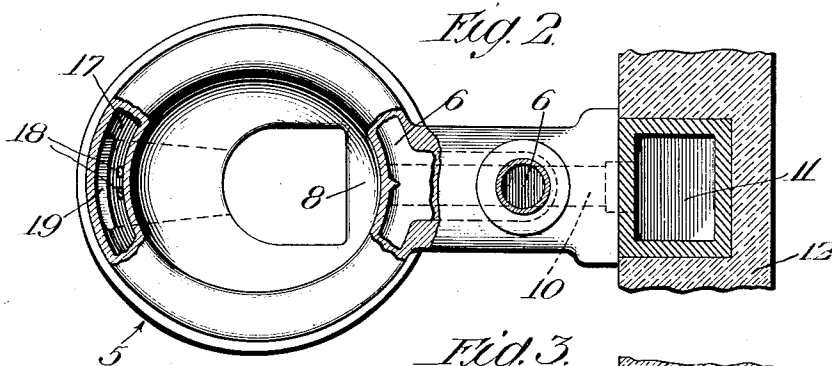
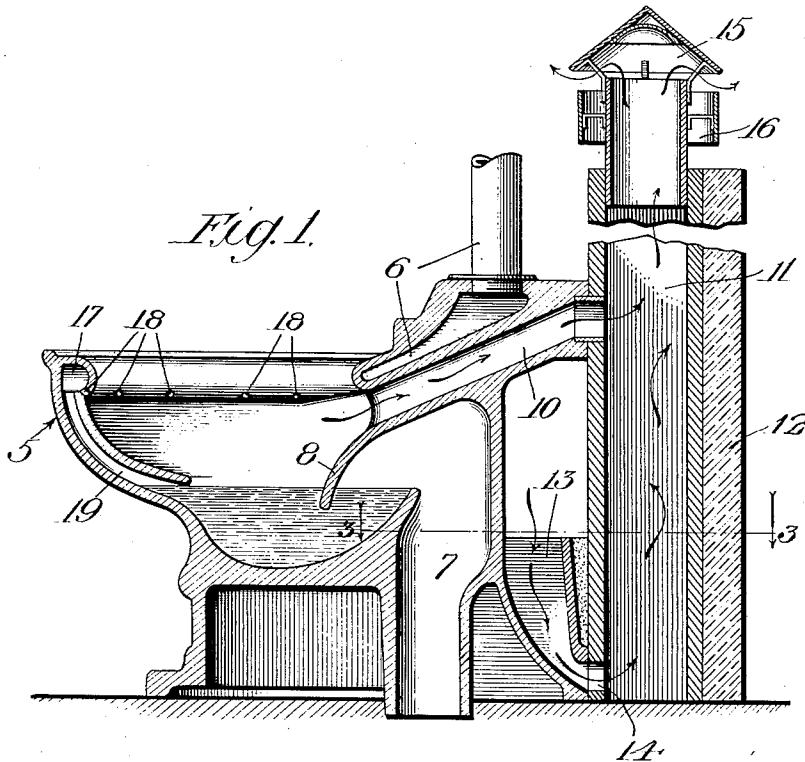


J. K. PENNINGTON.
VENTILATED WATER CLOSET.
APPLICATION FILED JUNE 6, 1907.

936,561.

Patented Oct. 12, 1909.



Witnesses:
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M. A. Jones

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UNITED STATES PATENT OFFICE.

JOHN K. PENNINGTON, OF LOS ANGELES, CALIFORNIA.

VENTILATED WATER-CLOSET.

936,561.

Specification of Letters Patent.

Patented Oct. 12, 1909.

Application filed June 6, 1907. Serial No. 377,524.

To all whom it may concern:

Be it known that I, JOHN K. PENNINGTON, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented new and useful Improvements in Ventilated Water-Closets, of which the following is a specification.

My invention relates to a method of effecting the ventilation of water closets without the use of mechanically operated devices, and an object thereof is to provide a device that will instantly eliminate any foul or disagreeable odors created while the closet is in use, thereby maintaining a perfectly ventilated room in which the closet is placed. I accomplish this object by means of the device described herein and illustrated in the accompanying drawings, in which:—

Figure 1— is a central vertical section of a water closet embodying my invention. Fig. 2— is a plan of the closet partly broken away. Fig. 3— is a transverse section of my closet taken on line 3—3 of Fig. 1.

Referring to the drawings, 5 designates a closet bowl of usual form, provided with a water inlet 6, and a waste pipe 7 all of usual construction. Bowl 6 is provided with the usual wall 8 behind which the siphon is formed.

Leading from bowl 5 is a ventilating passage-way 10 that communicates with a ventilating draft flue 11 that is formed in one of the walls 12 of the building (not shown). Flue 11 extends from a point adjacent the floor line of the building in which it is formed to a point above the roof where it communicates with the outside air. The closet is also provided in the rear thereof with a supplementary ventilating flue 13 leading from a point which is approximately, the same height from the floor as the bottom of the bowl 5, downwardly and communicates with an opening 14 formed in the front wall of the ventilating flue 11 adjacent the floor line. The top of the ventilating flue 11 is provided with a conical cap 15 which will prevent air from entering therein, and just below the cap 15 is an annular sleeve 16 that materially assists the draft in the flue 11 by preventing the outside air from interfering therewith.

The closet during use being closed the circulation of air up flue 11 is maintained by means of the supplementary ventilating flue 13. As the air rushes up flue 11 a partial

vacuum will be formed, thereby exhausting the foul air in the closet bowl through the ventilating passage-way 10, thus rendering the air in the room in which the closet is located comparatively pure.

The closet bowl is provided with an annular channel 17 which is provided with a series of spray inlets 18, and in front with an enlarged channel or opening 19 that extends from channel 17 downwardly ending near the bottom of bowl or basin 5. The water passes into the bowl through this channel with great force and rapidly carrying with it anything that may happen to be in the bowl, thus promoting the ventilation of the closet.

It will be noted from the foregoing description that I have provided a closet bowl that will be ventilated while in use without the aid of mechanically operated means.

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

1. The combination of an upwardly extending ventilating flue open at its upper end, of a water closet bowl having a ventilating passage-way extending upwardly from the closet bowl and communicating with said ventilating flue at a point above its lower end, and a supplementary ventilating flue open to the atmosphere at its top and leading downwardly to the lower end of said ventilating flue.

2. The combination of an upwardly extending ventilating flue communicating with the atmosphere at its upper end, of a water-closet bowl disposed in a toilet room provided with a ventilating passage-way connecting its interior with said flue at a point above its lower end, the said ventilating flue having an opening leading into the room adjacent the toilet fixture.

3. In a ventilating means for water-closet bowls disposed in toilet rooms the combination with a vertically extending ventilating flue open at its upper end and communicating with the atmosphere, said flue being closed at its extreme lower end, of a water-closet bowl provided with a ventilating passageway connecting its interior with said flue at a point above its lower end, the said flue being further provided with a draft opening leading to the room near the bottom thereof adjacent the base of the closet bowl.

4. In a ventilating means for water-closet

bowls disposed in toilet rooms the combination of a plurality of upwardly extending ventilating flues communicating with the atmosphere at their upper ends, but closed at
5 their extreme bottom ends, of a plurality of water-closet bowls, each provided with a ventilating passageway connecting their interiors with their respective ventilating flue at a point above their lower ends, each of
10 said flues being further provided with a

draft opening leading to the room near the bottom thereof adjacent the base of each of the closet bowls.

In witness that I claim the foregoing I have hereunto subscribed my name this 24th 15 day of May, 1907.

JOHN K. PENNINGTON.

Witnesses:

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MYRTLE A. JONES.