

No. 704,471.

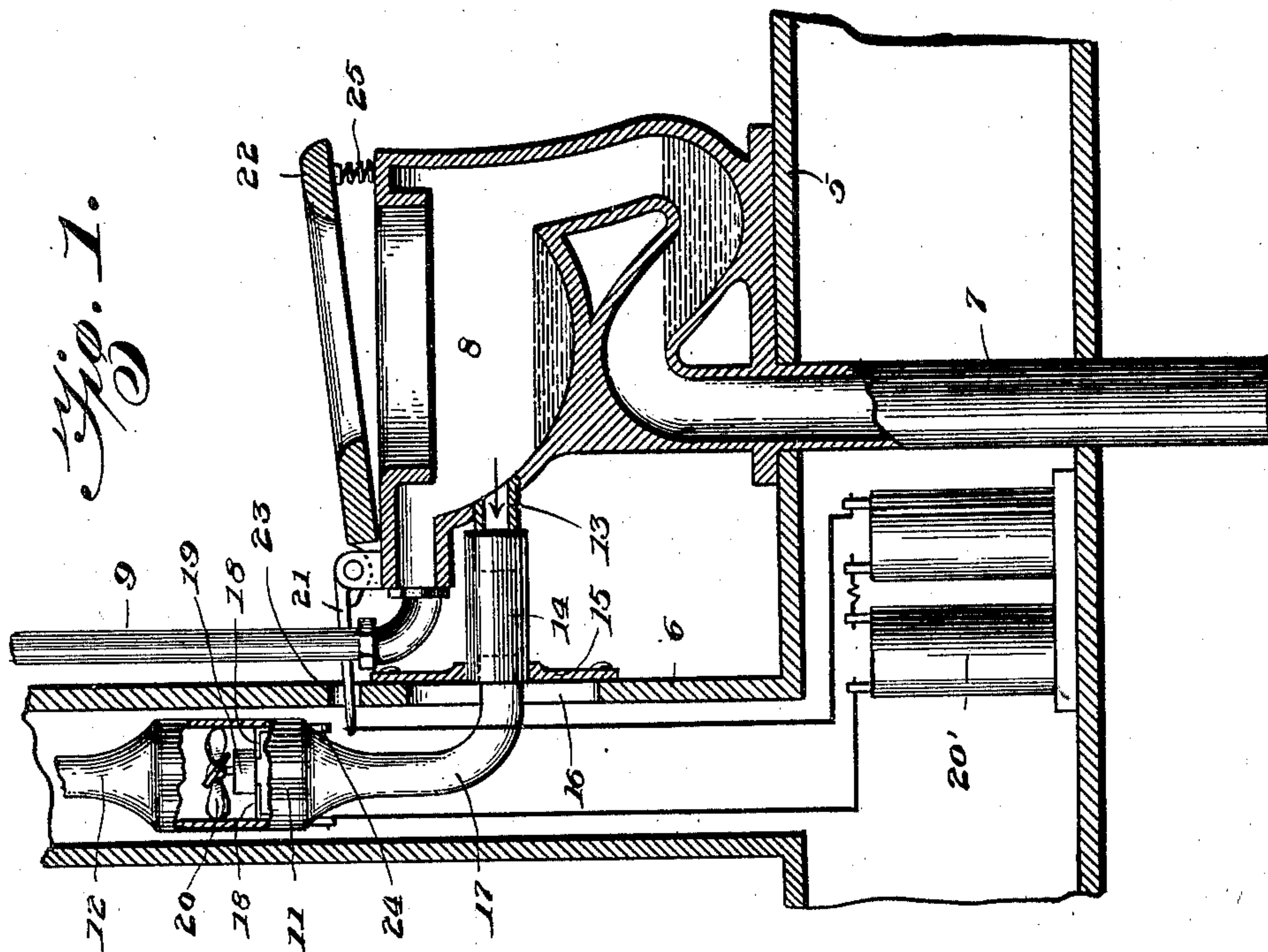
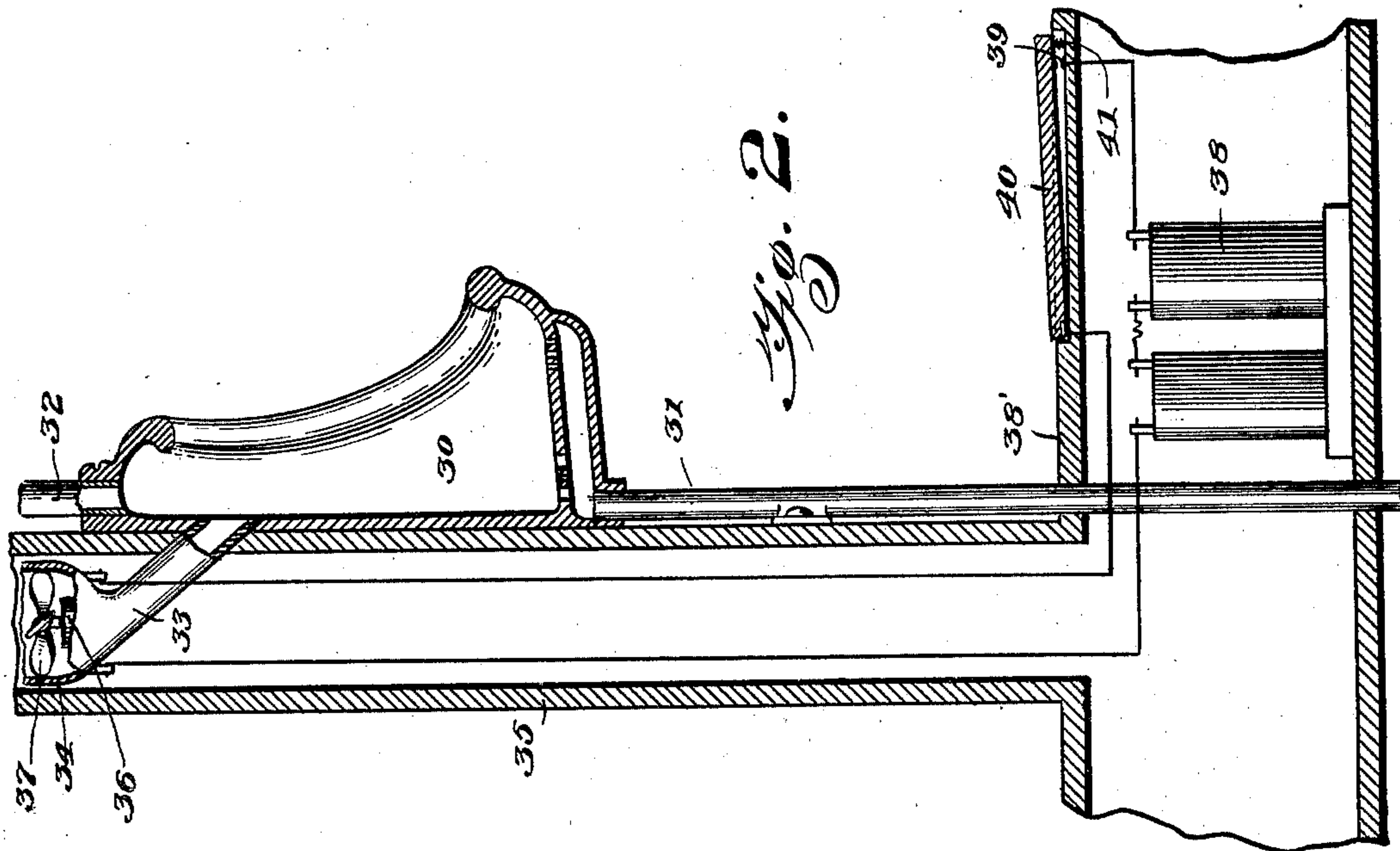
Patented July 8, 1902.

S. C. BROWN.

VENTILATOR ATTACHMENT FOR WATER CLOSETS.

(Application filed Mar. 16, 1901.)

(No Model.)



Witnesses

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# UNITED STATES PATENT OFFICE.

SCHUYLER C. BROWN, OF SARATOGA SPRINGS, NEW YORK.

## VENTILATOR ATTACHMENT FOR WATER-CLOSETS.

SPECIFICATION forming part of Letters Patent No. 704,471, dated July 8, 1902.

Application filed March 16, 1901. Serial No. 51,496. (No model.)

*To all whom it may concern:*

Be it known that I, SCHUYLER C. BROWN, a citizen of the United States, residing at Saratoga Springs, in the county of Saratoga and State of New York, have invented a new and useful Ventilator Attachment for Water-Closets, of which the following is a specification.

This invention relates to ventilators, and particularly to that class designed to carry away the foul odors from water-closets, urinals, and other toilet commodities, the object of the invention being to provide a construction and arrangement of parts wherein when the closet or urinal is in use the ventilator will be operated and when not in use the ventilator will not operate, further objects and advantages of the invention having reference to the details of construction, all of which will be understood from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both views, Figure 1 is a view partly in section and partly in elevation and showing the invention as applied to a water-closet. Fig. 2 is a view partly in section and partly in elevation and showing the invention as applied to a urinal.

Referring now to the drawings, and more particularly to Fig. 1 thereof, there is shown a construction wherein 5 represents a floor and 6 a hollow wall, and through the floor leads the drain-pipe 7 from a water-closet, including a bowl 8, connected with the drain-pipe in the usual manner.

Leading to the bowl 8 is the usual flush-pipe 9, through which water is introduced to the bowl to flush it, and connected with the rear of the bowl and below the point of connection of the flush-pipe is a ventilating-pipe 10, which leads rearwardly and into the hollow wall 6 and in which it is bent upwardly and connects with a casing 11, hereinafter described, the upper end of the casing being connected with the ventilating-stack 12.

The ventilating-pipe includes the nipple 13, connected directly with the closet-bowl, and over the outer end of which is slipped a sleeve 14, which is engaged with a wall-plate 15, disposed to cover an opening 16 in the wall,

through which the ventilating apparatus may be inserted and removed, and in the inner end of the sleeve is engaged the end of the curved pipe-section 17, which is connected directly with the casing 11.

The casing 11 is shown as cylindrical in form, and disposed therein and resting upon brackets 18 is an electric motor 19, having a fan-wheel 20, disposed for rotation in a plane transverse of the casing and having such shape that when rotated it will establish an upwardly-flowing current, so that air will be drawn from the closet-bowl and will be discharged into the ventilating-stack, thus collecting all foul odors from the bowl and discharging them in such manner that none can escape into the room in which the closet is located.

It is desirable that the fan be operated only when the closet is in use, and for this purpose a circuit-closer for the circuit of the motor is provided and includes the seat of the closet. The batteries for energizing the motor are shown at 20', one terminal thereof being connected with a terminal of the motor, while the opposite terminal is connected with a finger 21, which is attached to the hinged closet-seat 22 and projects rearwardly through an opening 23 in the wall 6 into position beneath a contact-point 24, connected with the second terminal of the fan-motor, so that when the closet-seat is depressed, as by a person sitting thereon, the finger is moved upwardly and into engagement with the contact-point to close the circuit of the battery through the motor to energize it. To hold the closet-seat normally in raised position, with the contact-finger out of circuit-closing position, a helical spring 25 is disposed between the under face of the forward portion of the seat and the upper edge of the closet-bowl. Thus when the closet-seat is occupied the motor will be operated to effect a ventilation, and when the seat is unoccupied the mechanism will be at rest.

In Fig. 2 of the drawings there is shown the invention applied to a urinal 30, having a drain-pipe 31 connected with the bottom thereof and a water-supply or flushing pipe 32 connected with its upper portion, and from the back of the urinal and just below the flush-pipe there leads the vent-pipe 33, which ex-



tends upwardly and is connected with a casing 34 in a wall 35, this casing having a motor 36, provided with an exhaust-fan 37 for creating a draft upwardly through the vent-pipe. A battery 38 is located beneath the floor 38', and one terminal thereof is connected with the motor, while the other terminal is connected with a contact-plate 39, adapted for engagement by a hinged plate 40, which is connected with the second terminal of the motor. The plate 40 is held normally from contact with the plate or point 39 through the medium of a retaining-spring 41, and plate 40 is located in front of the urinal, so that a person using the urinal must stand thereon, and his weight will depress the plate and close the circuit of the battery through the motor. When he steps from the plate, the circuit is broken and the motor stops, and thus the ventilating operation takes place only during the use of the urinal.

In practice other modifications of the invention may be made, as will be understood.

What is claimed is—

The combination with a water-closet having a ventilating-nipple, and an adjacent hollow wall having an opening therein, of a covering-plate for the opening, a sleeve passed through the covering-plate and engaged over the nipple, a ventilating-pipe within the wall and connected with the sleeve, said pipe having an enlarged portion forming a chamber, a fan in the chamber and having a motor, and means operable by a person using the closet, for energizing the motor.

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

SCHUYLER C. BROWN.

Witnesses:

WM. P. TORRANT,  
M. MCGOFF, Jr.