W. H. CLINE.

VENTILATING DEVICE FOR WATER CLOSETS.

APPLICATION FILED MAY 9, 1908.

908,393.

Patented Dec. 29, 1908.

Fig. 2

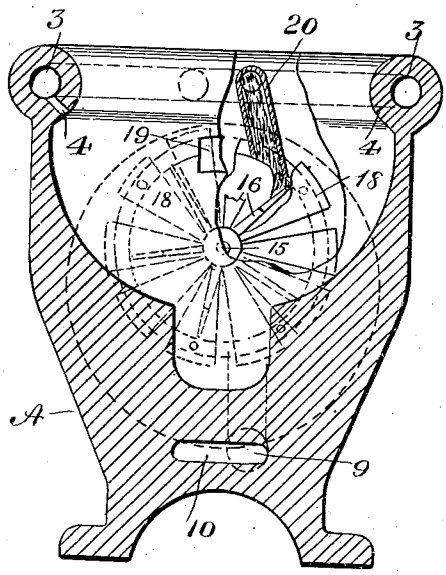


Fig. 1.

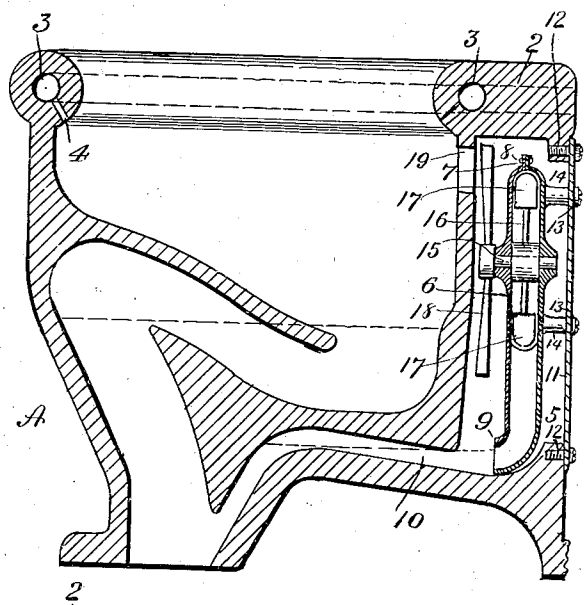
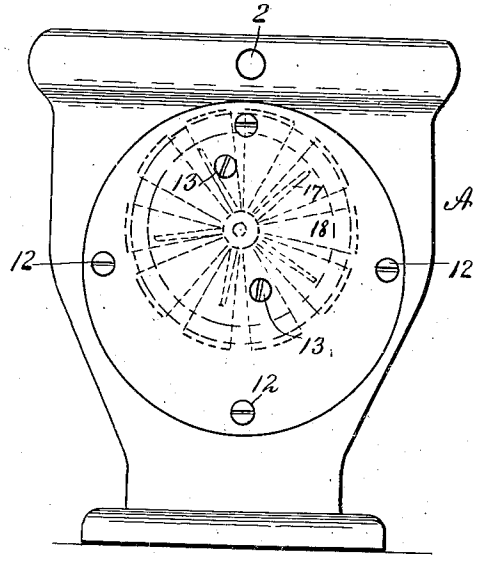


Fig. 3.



Witnesses:
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UNITED STATES PATENT OFFICE.

WATSON H. CLINE, OF ELKHART, INDIANA.

VENTILATING DEVICE FOR WATER-CLOSETS.

No. 908,393. Specification of Letters Patent. Patented Dec. 29, 1908.

Application filed May 9, 1908. Serial No. 431,926.

To all whom it may concern:

Be it known that I, WATSON H. CLINE, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented certain new and useful Improvements in Ventilating Devices for Water-Closets, of which the following is a specification.

My invention relates to an improvement in ventilating devices for water-closets, and the object is to provide means whereby the foul air and gases from the closet bowl can be removed during use.

Another object is to provide a water motor for operating the suction means.

The invention consists of certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claim.

In the accompanying drawings Figure 1 is a longitudinal vertical section of my invention; Fig. 2 is a cross sectional view with the parts broken away, and Fig. 3 is a rear view.

A, represents the bowl of a water-closet of a known construction having the usual water inlet 2 from the rear, which encircles the top portion of the bowl through a channel 3 and is discharged from the channel through the opening 4 to the bowl for flushing.

The rear side of the bowl is hollowed out to form a recess or chamber 5, in which a housing or casing 6 is received. The housing or casing 6 is preferably made in two sections and is secured along its edges by bolts 7, passing through the flanges 8, 8 of the two sections. At the lower end an outlet pipe 9 is formed which discharges the water into an outlet channel 10, which discharges into the waste pipe (not shown). The casing 6 is secured to a plate 11 by screws 13, 13, which pass into sockets 14 on the casing. The plate 11 is secured to the rear bowl by means of screws 12, 12. Journaled in the casing on a shaft 15 is a water wheel 16 having buckets 17 thereon. Mounted on the shaft 15 between the bowl and casing is a suction fan 18. An opening 19 is formed in the upper portion and on the rear side of the bowl leading from the interior to the recess 5. A pipe 20 which is connected to the water supply is connected to the casing 6, through which the water passes to the water wheel. As the wheel revolves the fan is rotated, creating a suction and drawing the foul air and gases through the openings 19 into the recess or chamber 5 and passes out through the channel 10, into the waste pipe. The pipe 20 is provided with a valve 21 for opening and closing the supply of water from the supply pipe.

From the foregoing it will be seen that I have provided a means for ventilating the bowls of water-closets which can be applied to the bowl and will be entirely hidden from view, and the noise incident to the operation of the fan and water motor is removed. Again this attachment can be applied to the bowl and removed without in any wise interfering with the flushing operation of the bowl.

It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to be limited to the exact construction herein set forth, but:—

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

In a ventilating device for water closets, the combination with a bowl, of a chamber formed in the rear side and in communication with the bowl, a water motor received in the chamber, a suction fan connected to the water motor, a pipe for supplying water to the motor which water is discharged through a channel leading from the chamber, and a plate secured to the rear side of the bowl for supporting the motor.

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

WATSON H. CLINE.

Witnesses:

PERRY L. TURNER,

MERLE DOTY.