

H. S. RUMSEY.
WATER CLOSET.
APPLICATION FILED NOV. 25, 1910.

1,013,616.

Patented Jan. 2, 1912.

Fig. I.

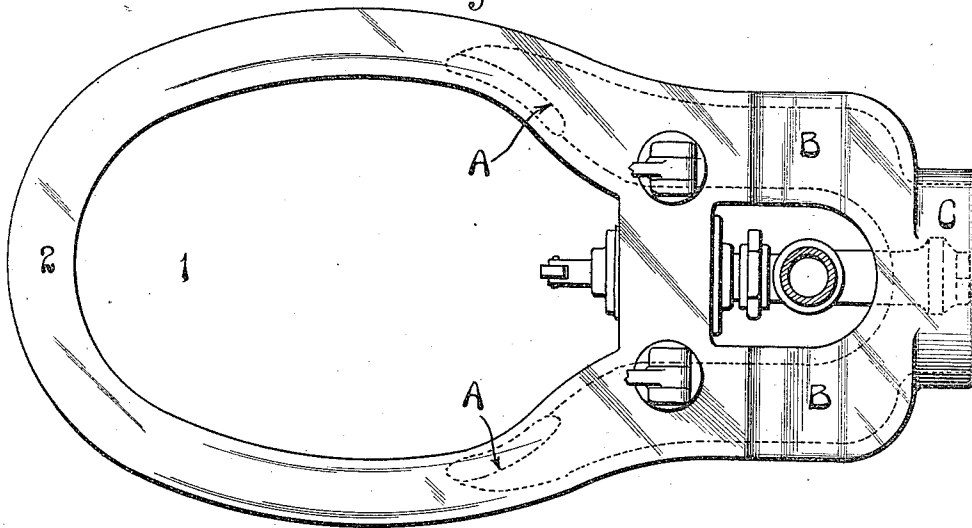
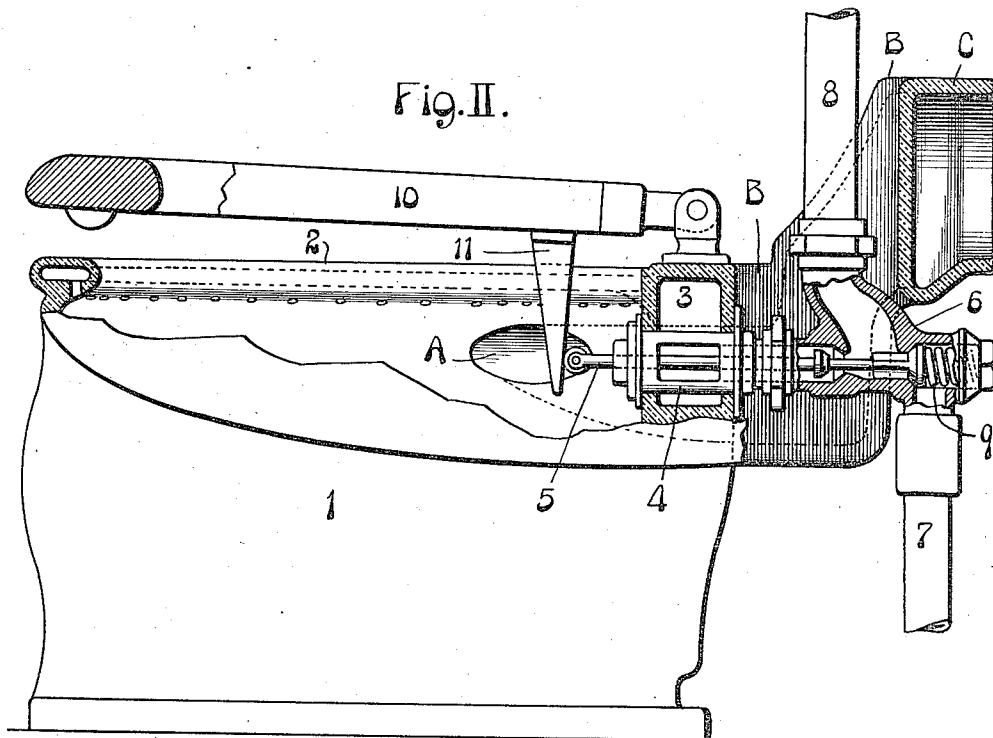


Fig. II.



Attest
W. J. McCauley
M. C. Hamman

Inventor:
H. S. Rumsey
by *[Signature]* Att'y.

UNITED STATES PATENT OFFICE.

HORACE S. RUMSEY, OF ST. LOUIS, MISSOURI.

WATER-CLOSET.

1,013,616.

Specification of Letters Patent.

Patented Jan. 2, 1912.

Application filed November 25, 1910. Serial No. 594,007.

To all whom it may concern:

Be it known that I, HORACE S. RUMSEY, a citizen of the United States of America, residing at the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Water-Closets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to that character of water closets to which the flush water is delivered from a pressure tank, and its admission to the bowl of the closet is controlled by a valve operable directly in the bowl and commonly operated in part by the seat of the closet to provide for the construction being such that the valve will be so operated when pressure is exerted upon the seat as to provide for flow of water from a supply pipe to the pressure tank without flow to the bowl, and provide for flow being established from the pressure tank to the bowl when pressure upon the seat is relieved.

The object of the present invention is to provide a closet of the kind referred to with a double vent leading from each side of the bowl and comprising branches that are separated to permit the presence of the flush water controlling valve and the connections associated therewith, in order that these parts may occupy their proper positions without interference with the proper venting of the bowl, which venting is taken care of with a high degree of efficiency due to its construction in combination with the bowl.

Figure I is a top or plan view of my water closet, the seat being omitted. Fig. II is a view, partly in side elevation and partly in vertical section of the closet.

In the accompanying drawings:—1 designates the bowl of my closet, provided with a flushing rim 2, of an ordinary or usual type, and having an inlet chamber 3.

4 is an apertured barrel or inlet member seated in the bowl 1 and having communication with the inlet chamber 3. This inlet chamber serves as a guide for a valve rod 5 that extends longitudinally through the inlet member to the interior of the bowl and leads rearwardly into a valve housing 6 within which the valve rod is provided with valves that control a passageway from a supply pipe 7 to a flush pipe 8 that leads to a pressure tank, and also controlling communication from said flushing pipe through

said valve housing to the inlet member 4, and therefore to the flushing rim 2 of the closet bowl. The valve rod 5 is moved forwardly by a spring 9 to normally close communication between the supply pipe 7 and the flushing pipe 8, and said rod is moved in the opposite direction to establish communication between the supply pipe and the flushing pipe and prevent communication between the flushing pipe and the closet bowl at such time, and through the medium of the closet seat 10 that is provided with a downwardly extending lug 11 adapted to press against the forward end of the valve rod. A friction reducing device is provided in the present embodiment by a roller journaled in the end of the valve rod 5.

At each side of the bowl is a vent A, and projecting rearwardly from the bowl on either side is a hollow branch, said branches being spaced apart and united in the rear to form an open framework. Each branch communicates through one of the vents with the interior of the bowl. These branches or vent pipes are made integral with the bowl so as to be permanent parts thereof and are joined to a common neck C which is adapted to be connected to a main vent pipe of ordinary description that leads to the exterior of the building in which the water closet is used. By means of the construction herein described, I am enabled to secure an efficient venting of the bowl and by forming the venting pipes within the two hollow branches which are separated from each other at the back to provide a central open space in the rear of the bowl, a valve for controlling the flow of water from a pressure tank may be installed in such a position as to render it readily accessible and open to inspection. Furthermore, by elevating the common neck C with which the hollow branches connect, it becomes possible to extend the controlling valve rearwardly to connect up with the supply pipe 7 from below.

I claim:—

1. In a device of the character described, a bowl provided with a pair of rearwardly projecting bowl branches with an open space therebetween for forming a frame open above and below for the reception of a valve housing, said branches being connected up with said bowl to provide ventilating channels therefor.

2. In a device of the character described,

a bowl provided with a pair of rearwardly projecting hollow branches forming an open framework for the reception of a valve housing, and with ventilating vents opening
5 into said branches, said branches being united in a common neck in the rear.

3. In a device of the character described, a bowl provided with a pair of rearwardly projecting hollow branches forming an
10 open framework for the reception of a valve

housing, and with ventilating vents opening into said branches, said branches being united in a common neck in the rear, and said neck being elevated above said branches to permit the valve housing to project rear- 15 wardly thereunderneath.

HORACE S. RUMSEY.

In the presence of—

JOHN M. O'SHEA,

J. B. MEGOWN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
