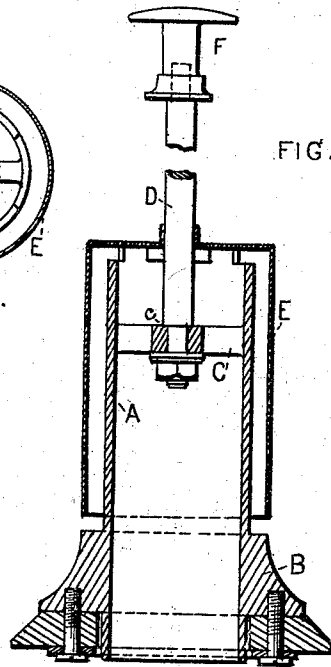
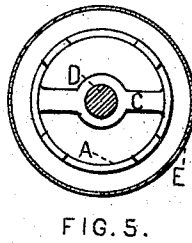
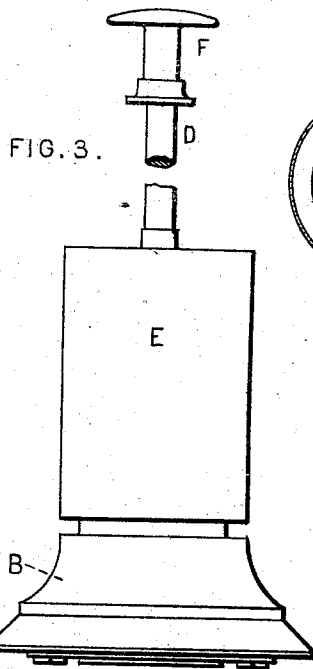
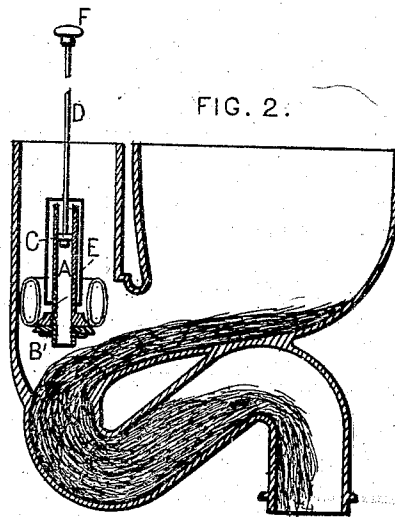
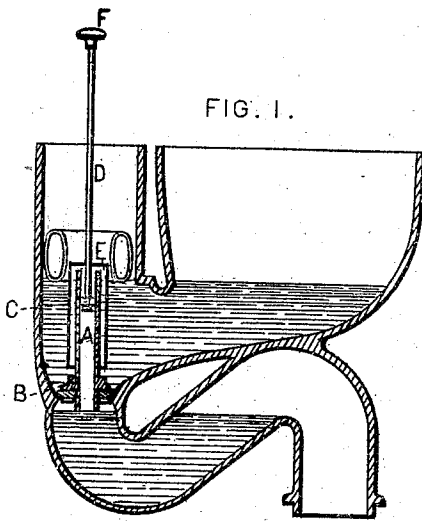


W. S. BLUNT.
PLUGS FOR WATER-CLOSETS.

No. 173,760.

Patented Feb. 22, 1876.



WITNESSES,
Geo. W. Allen
C. Q. Gordon

William S. Blunt by Alfred Brown atty.
INVENTOR.

UNITED STATES PATENT OFFICE.

WILLIAM S. BLUNT, OF BAY RIDGE, NEW YORK.

IMPROVEMENT IN PLUGS FOR WATER-CLOSETS.

Specification forming part of Letters Patent No. **173,760**, dated February 22, 1876; application filed January 26, 1876.

To all whom it may concern:

Be it known that I, WILLIAM S. BLUNT, of Bay Ridge, Kings county, New York, have invented, made, and applied to use Improvements in the Construction of Plugs for Use in Water-Closets; and that the following is a full, clear, and a correct description of my invention, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a view of a closet to which my plug has been applied, the plug being shown down. Fig. 2 is a view of a closet to which my plug has been applied, the plug being shown up. Fig. 3 is a side elevation of my plug. Fig. 4 is a sectional view of my plug. Fig. 5 is a top view of plug and hood, showing the cross-bar C.

In the drawings like parts of the invention are designated by the same letters of reference.

The nature of the present invention consists of the construction of a plug or valve, as more fully hereinafter set forth, and intended more particularly to be used in connection with that class of water-closets in which the pan is stationary, and which are automatically supplied with water, and from which the water and contents of the pan flow as the valve or plug is raised by the party using the closet; and the invention consists in combining with the plug or valve a hood or cover, constructed as more fully hereinafter set forth, intended to be passed over and around the plug or valve, and to form, as it were, a casing for the same, and move with it, so that as the plug or valve is raised from its seat by the hand of the operator the cover or shield will move with the valve or plug, the object of this invention being, by covering the plug or valve, to prevent the admission or ingress of any gases from the sewer, or from any other sources, which would result if the valve or plug were constructed as those now in use are—namely, a valve or plug made hollow to perform the office of an overflow-pipe; further, that the valve, being covered or protected, as shown, serves as a siphon to fill the lower trap of the water-closet, when the same is suddenly emptied from any source, as the running out of the water creates a

vacuum in the valve or plug, and this vacuum sucks up or draws water from the basin portion of the closet, and supplies it to the lower trap through the valve or plug, as clearly shown in Fig. 1; and, further, to prevent the evaporation of the water in the lower trap, which is apt to result while a hollow valve or plug, uncovered, is used.

To enable those skilled in the arts to make and use my invention, I will describe the construction and operation of the same.

A shows the plug or valve, formed of any suitable material, consisting of a tube made of the proper length, and having an enlargement at its lower base, as shown at B. At or near the upper end of the plug, upon its interior, is secured a cross bar or brace, C, provided with an opening, c, through which is passed the lower portion of the rod D, passed through and secured in the hood or cover E. D shows the rod provided with the handle F, and inserted in the hood or cover, and projecting in the interior of the same, and passed through the cross bar or brace, and secured in it, thus attaching the hood or cover E to the plug or valve A. The point where the rod enters the hood is closed, so as to make the hood air-tight. E shows the hood or cover, consisting of a section of a cylinder closed at its top, through which is passed and inserted the rod D, and made shorter than the plug or valve A, and passed over the same and attached to it by the rod fastened to the plug or valve. The hood or cover E is preferably made removable from the plug or valve A for the purposes of cleaning, or to facilitate the removal of any foreign matter that may work its way into the plug, and would have a tendency to stop the same, or prevent the working of the siphon.

Such being the construction, the operation is as follows: The cover or hood having been secured in its position upon the valve or plug, the same is placed in position upon a valve-seat, resting upon the exit for the water from the basin to the lower portion of the closet or trap, which is connected with the soil-pipe. The party making use of the closet, desiring to empty the contents of the basin or pan, raises the handle by which the plug or valve is raised from its seat, and the contents of the

pan or basin, with the water formerly supplied to the same, will leave the upper portion of the basin through the valve or opening, pass to the lower portion of the closet, and thence to the soil-pipe. The valve or plug is then closed upon the valve-seat by depressing the lever or handle.

It will be observed that, by the use of a plug constructed and encased as described, when the plug or valve is closed upon its seat it will be difficult for any gases from the sewer, or gases arising from other causes, to force their way into the house through the closet, as the plug or valve is submerged in water, and even if the lower trap be empty the plug and cover form an additional trap, which cannot be emptied so long as water remains in the upper basin; that, by the use of a plug constructed and secured as shown, a siphon

is formed of the tube and hood or protector, which fills the lower trap (when the same is suddenly emptied) from the basin portion of the closet; that the evaporation of water in the lower trap of the closet is prevented from the plug or valve being surrounded by the hood or cover; and that the plug or valve as constructed acts in harmony with and co-operates with a closet automatically supplying itself with water.

Having now set forth my invention, what I claim as new is—

The combination, with a plug or valve, A, of the hood or cover E and rod D, substantially as and for the purposes set forth.

WILLIAM S. BLUNT.

Witnesses:

A. SIDNEY DOANE,
THOS. F. STODDARD.