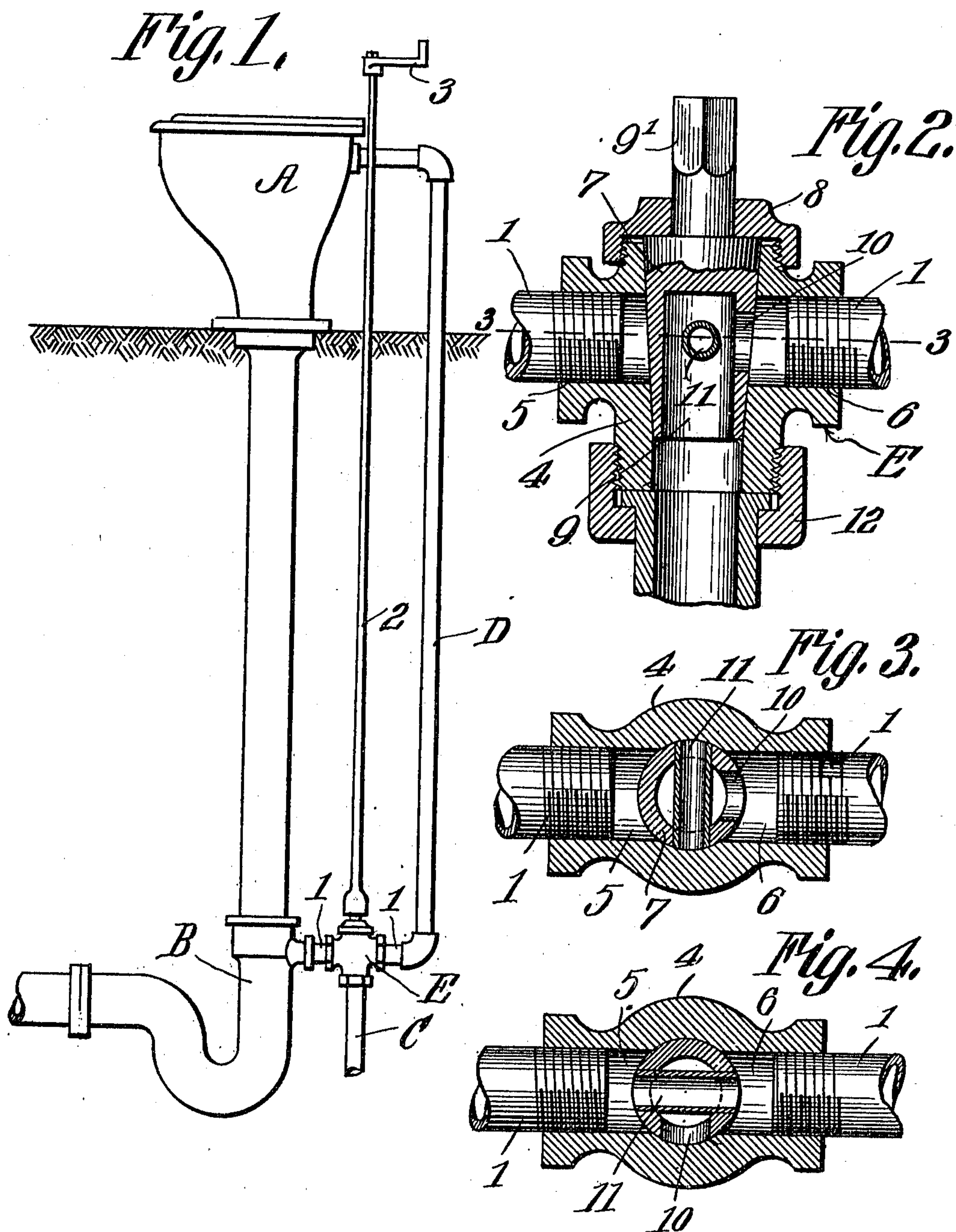


H. C. WEITZEL.
 AUTOMATIC STOP AND WASTE FOR OUTSIDE HOPPERS.
 APPLICATION FILED MAR. 24, 1909.

956,008.

Patented Apr. 26, 1910.



WITNESSES

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UNITED STATES PATENT OFFICE.

HENRY C. WEITZEL, OF BALTIMORE, MARYLAND.

AUTOMATIC STOP AND WASTE FOR OUTSIDE HOPPERS.

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Specification of Letters Patent.

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Application filed March 24, 1909. Serial No. 485,367.

To all whom it may concern:

Be it known that I, HENRY C. WEITZEL, a citizen of the United States, residing at Baltimore city, State of Maryland, have invented certain new and useful Improvements in Automatic Stops and Wastes for Outside Hoppers, of which the following is a specification.

My invention relates to an improvement in water closet valves, and fixtures, the object being to automatically release water which would otherwise remain in the flushing pipe whereby to completely drain the latter and prevent the freezing of the water which would otherwise be in the pipe.

With the foregoing object in view, my invention comprises a connecting pipe which extends from the flush pipe to the trap, the said connecting pipe having a flush valve provided therein constructed and operated in such a manner as to permit a flow of water through the flush pipe at the time of flushing the bowl and drain the flush pipe after the flushing operation.

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

In the accompanying drawings, forming a part of this specification, Figure 1 is an elevation of the valve as applied to a water closet fixture. Fig. 2 is a vertical central section of the valve. Fig. 3 is a horizontal section on line 3—3 of Fig. 2, the valve being shown in open position, and Fig. 4 is a view similar to Fig. 3, but with the valve shown in closed position and the drain pipe open.

A, represents the bowl, B, the usual trap as used for closets located outside of dwellings, principally in the yards adjoining the premises; C, the water supply pipe, and D, the flush pipe extending therefrom to the bowl.

1, indicates a pipe connecting the flush pipe with the trap, into which is interposed the flush and drain valve E connected with the supply pipe C; 2, is a key rod, provided with a lever 3 on the upper end thereof, by which the valve is operated.

The valve E is provided with a casing 4, having ports 5 and 6 provided therein; 7 is a tapered barrel, secured within the casing by means of the cap nut 8, the lower end portion of the barrel being hollow as indicated at 9 and provided with stem 9¹, the upper end of which is squared, for the pur-

pose of being engaged by the key rod 2 by which it is operated. The barrel is provided with an outlet 10 adapted to be made to communicate with the port 6 of the valve into which communicates the connecting pipe 1 connecting with the flush pipe D. Extended through the hollow portion of the barrel and extending transversely of the outlet 10 therein, is a pipe 11, adapted to be made to communicate with the ports 5 and 6 opening into the pipe 1, and communicating with the trap B and flush pipe D respectively.

Connection is made between the supply pipe C and the valve E by any suitable means such as the threaded collar-nut 12 shown.

My invention is operated as follows: By means of the lever 3, the key rod 2 is made to turn, thereby turning the barrel 7 a predetermined distance, so that the outlet 10 thereof is brought opposite the port 6, when in this position water will flow from the supply pipe C through the valve, thence through pipe 1 leading to the flush pipe D from whence it is discharged into the bowl A, thereby flushing the bowl and is finally discharged through the trap B. By the same means the barrel is made to return to its normal closed position, thereby shutting off the water supply, and when in this position communication is established between the flush pipe D and trap B by means of the pipe 11 through the valve barrel and whatever water remains in the flush pipe D after the flushing operation will drain through the pipe 11 and into the trap B, thereby keeping the flush pipe free from water after each flushing operation and preventing damage to the apparatus by eliminating the possibility of freezing.

Slight changes and alterations might be resorted to in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, hence I do not wish to limit myself to the exact construction as herein set forth; but,

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

1. The combination with a bowl and flush pipe, a trap connected with the said bowl, a pipe connecting the said flush pipe with the said trap, a valve provided with a hollow barrel having a port provided therein,

interposed within the said connecting pipe, and means for operating the said valve, substantially as described.

2. The combination with a bowl and flush
5 pipe, a trap connected with the said bowl, a pipe connecting the flush pipe and trap, a valve provided with a hollow barrel having a port provided therein and a pipe extended through the said barrel, transverse
10 of the port provided therein, a supply pipe

connected with the said valve, and means for operating the said valve, substantially as described.

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

HENRY C. WEITZEL.

Witnesses:

E. WALTON BREWINGTON,
MARY M. MAGRAW.