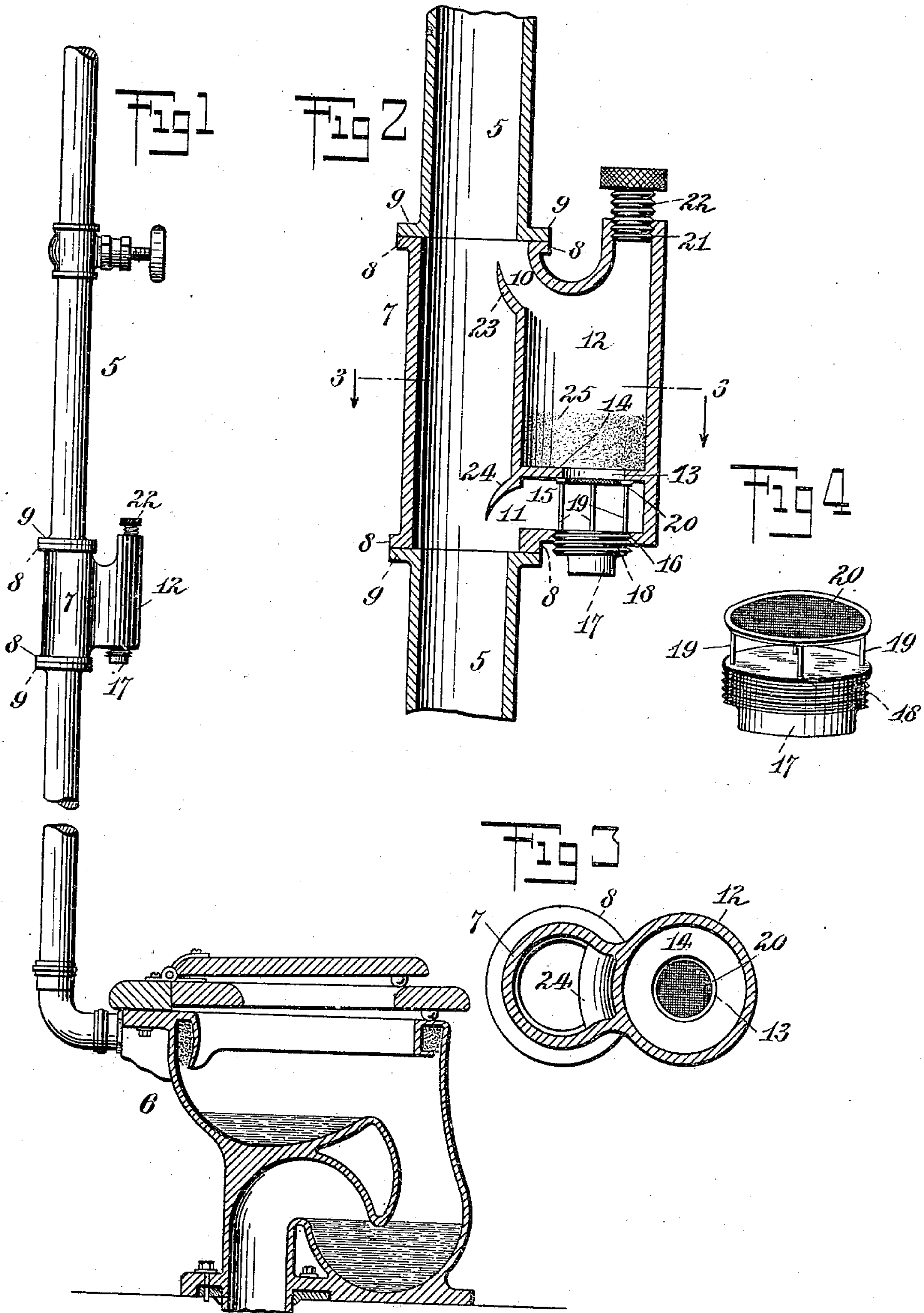


J. H. MELVILLE.
DISINFECTANT DISTRIBUTER.
APPLICATION FILED AUG. 12, 1909.

960,984.

Patented June 7, 1910.



WITNESSES
O. J. Hackenberg
E. B. Marshall

INVENTOR
Joseph H. Melville
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOSEPH H. MELVILLE, OF NEW YORK, N. Y.

DISINFECTANT-DISTRIBUTER.

960,984.

Specification of Letters Patent.

Patented June 7, 1910.

Application filed August 12, 1909. Serial No. 512,522.

To all whom it may concern:

Be it known that I, JOSEPH H. MELVILLE, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Disinfectant-Distributor, of which the following is a full, clear, and exact description.

10 My invention relates to distributors for disinfectants, and it has for its object to provide a section of a pipe leading from the flushing tank to a water closet, with two openings leading to the disinfecting chamber, one opening being disposed above the other, to direct a certain proportion of the water flowing from the flushing tank through the disinfecting chamber, the disinfecting chamber having a communicating means thereunder leading to the lower opening in the pipe, there being openings in the bottom of the disinfecting chamber and in the bottom of the communicating means; a plug being provided to close the opening in the communicating means, the plug having a screen supported on arms adapted to be brought into close proximity to the opening in the disinfecting chamber.

30 Still other objects of the invention appear in the following complete description.

In this specification I will describe the preferred form of my invention, it being understood that the scope of the invention is defined in the appended claims.

35 Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

40 Figure 1 is a view showing my disinfectant distributor as applied to the pipe leading from the flushing tank of a water closet; Fig. 2 is an enlarged sectional elevation of my disinfectant distributor; Fig. 3 is a sectional view on the line 3—3 of Fig. 2; and Fig. 4 is an enlarged view showing the plug with the screen, the plug being adapted to close the opening in the communicating means leading from the disinfecting chamber.

50 By referring to the drawings it will be seen that the usual pipe 5 leads from the flushing tank, not shown, to the water closet 6, a section of this pipe 5 being removed in order that my disinfectant distributor may be inserted. My device consists of a pipe

section 7 adapted to fit the pipe 5 at both ends, the pipe section 7 having flanges 8, which are adapted to engage flanges 9 on the pipe 5 to make a tight joint.

60 The pipe section 7 has two openings 10 and 11, one disposed above the other, the opening 10 leading to the disinfecting chamber 12, which has an opening 13 in its bottom 14, there being a pipe or communicating means 15 leading from the opening 13 at the bottom of the disinfecting chamber 12 to the opening 11 in the pipe section 7. There is also a threaded opening 16 in the bottom of the communicating means 15, and a plug 17 provided with a thread 18, is adapted to close the said opening 16. Upwardly disposed arms 19 are secured to the plug 17, and to these arms 19 is secured a screen 20, which is normally disposed against the lower side of the bottom 14 to cover the opening 13 in the said bottom 14.

75 The disinfecting chamber 12 has an opening 21 in its top, this opening 21 being threaded, a screw plug 22 being provided to close the said opening 21 in the pipe section 7. There is a deflecting plate 23 extending inwardly and upwardly from the lower end of the opening 10, there being also a deflecting plate 24, which extends downwardly and inwardly from the upper portion of the opening 11 in the pipe section 7.

80 In using my invention, the plug 17 is adjusted in the opening 16 at the bottom of the communicating means 15, so that the said opening 16 is closed and the screen 20 is disposed to cover the opening 13 in the bottom 14 of the disinfecting chamber 12. The plug 22 is then removed from the disinfecting chamber 12 and the disinfectant 25 is fed into the disinfecting chamber 12 through the opening 21. The disinfectant distributor is then ready for use, and when the valve is opened permitting the water to flow from the flushing tank, not shown, to the water closet 6, a certain proportion of the water is led by the deflecting plate 23 into the disinfecting chamber 12, the said water passing through the disinfectant 25, through the screen 20 and out through the communicating means or pipe 15 to the opening 11, in the pipe section 7, the deflecting plate 24 preventing the water from flowing into the communicating means 15. When the disinfectant material 25 has lost its power and must be renewed, the plug 17

is removed, and as it is removed it takes with it the screen 20, and as the diameter of the screen 20 is less than the diameter of the plug 17, and as the screen 20 is disposed directly above the plug 17 with the same center, it is possible to remove the screen 20 through the opening 16 in the bottom of the communicating means 15. When this is done the disinfectant 25 will fall through the opening 13 and through the opening 16 into a receptacle disposed below the communicating means 15, permitting its removal. When the disinfectant 25 has been removed from the disinfecting chamber 12, the plug 17 is again introduced into the opening 16 to close the said opening, and the screen 20 is disposed against the under side of the bottom of the disinfecting chamber 12 to close the opening 13 therein. When this has been done the plug 22 is removed and the disinfecting chamber is again supplied with fresh disinfectant.

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

1. In a disinfectant distributor, a pipe having two openings spaced apart, a casing forming a disinfecting chamber, having an opening in communication with one of the openings in the pipe, there being a second opening in the said casing, a communicating means leading from the second opening in the casing to the other opening in the pipe, there being an opening in the communicating means, a plug adapted for closing the opening in the communicating means, a screen adapted to be disposed in the second opening in the said casing, and members connecting the screen with the plug by which it may be removed with the plug.

2. In a disinfectant distributor, a pipe, a casing integral therewith having a disinfecting chamber, there being two communicating means between the pipe and the chamber, one disposed above the other, a deflect-

ing plate in the pipe disposed in close proximity to the upper communicating means, the lower communicating means extending below the chamber and having two openings substantially in alinement, one opening affording communication with the chamber and the other opening affording communication with the exterior of the device, a plug adapted to close the opening affording communication with the exterior of the device, a screen adapted to be disposed in close proximity to the opening affording communication with the chamber, and members connecting the screen with the plug by which it may be removed with the plug.

3. In a disinfectant distributor, a pipe, a casing integral therewith having a disinfecting chamber, there being two communicating means between the pipe and the chamber, one disposed above the other, a deflecting plate in the pipe disposed in close proximity to the upper communicating means, the lower communicating means extending below the chamber and having two openings substantially in alinement, one opening affording communication with the chamber and the other opening affording communication with the exterior of the device, a plug adapted to close the opening affording communication with the exterior of the device, a screen adapted to be disposed in close proximity to the opening affording communication with the chamber, members connecting the screen with the plug by which it may be removed with the plug, there being an opening in the top of the casing, and a plug adapted for closing the said opening.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH H. MELVILLE.

Witnesses:

EVERARD B. MARSHALL,
PHILIP D. ROLLHAUS.