L. H. CROW.

CLOSET.

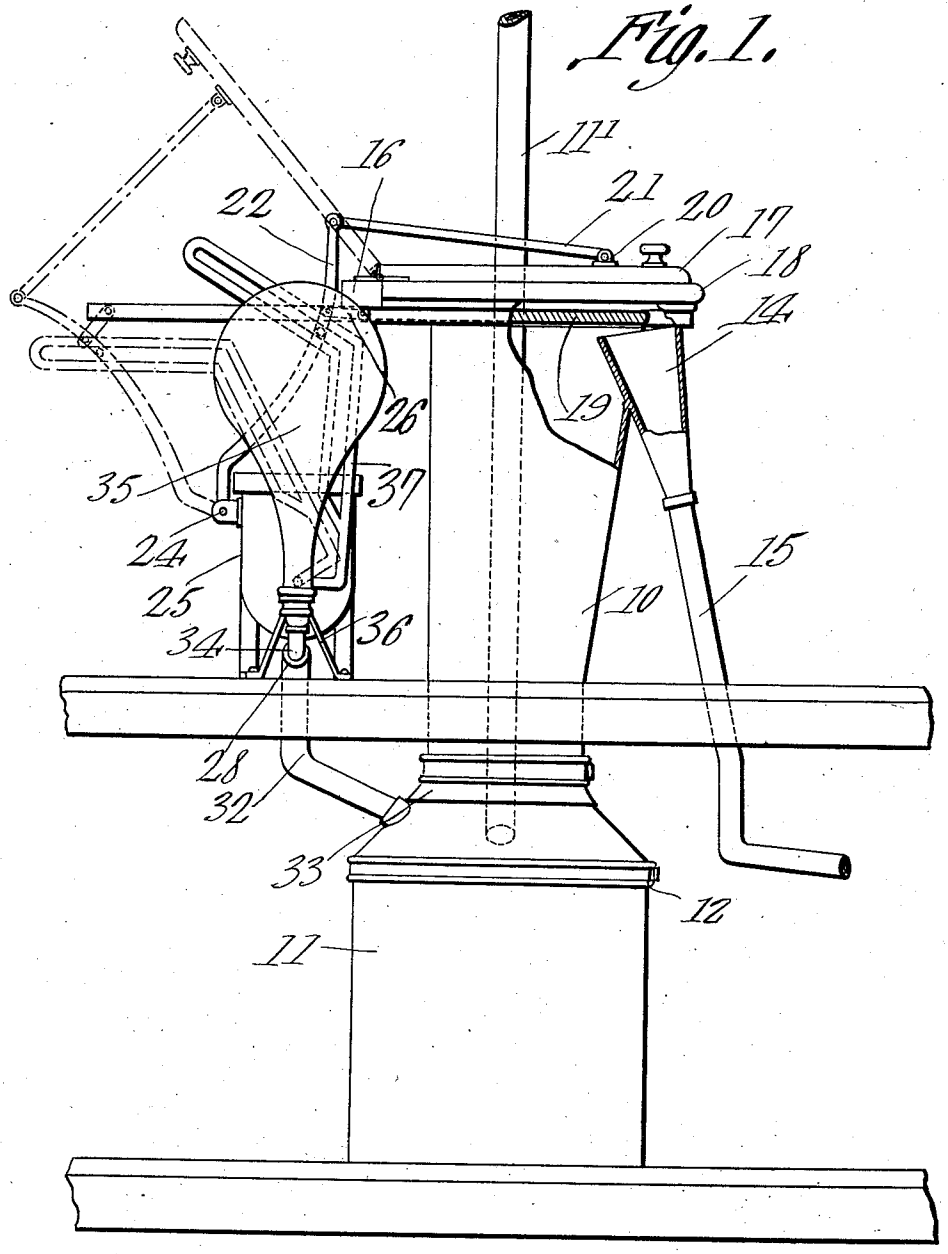
APPLICATION FILED JULY 18, 1911.

1,021,763.

Patented Apr. 2, 1912.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

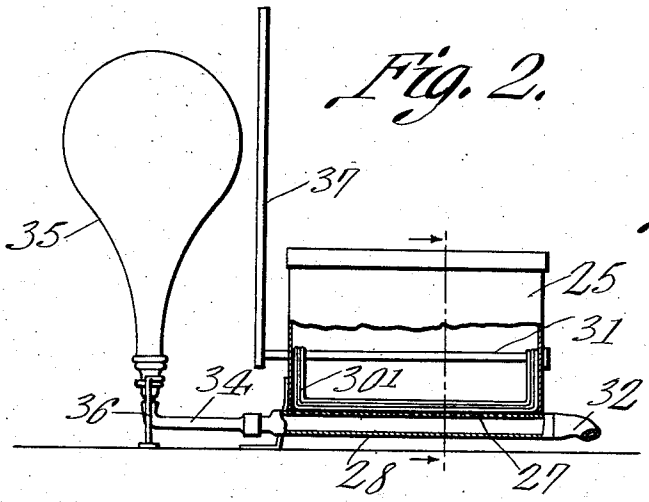


Fig. 3.

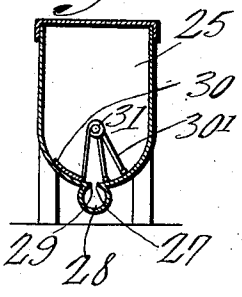


Fig. 4.

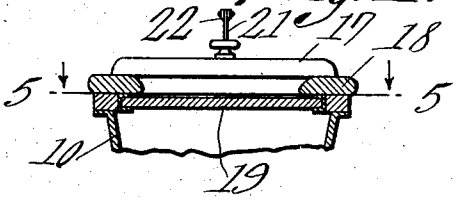
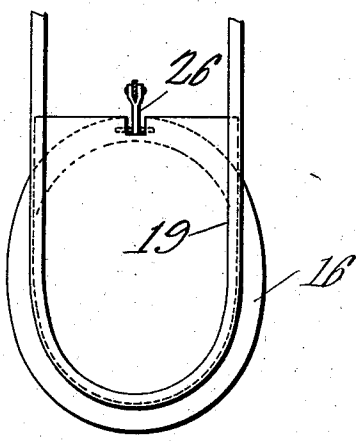


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

LEVI H. CROW, OF WICHITA FALLS, TEXAS.

CLOSET.

1,021,763. Specification of Letters Patent. Patented Apr. 2, 1912.

Application filed July 18, 1911. Serial No. 639,206.

To all whom it may concern:

Be it known that I, LEVI H. CROW, a citizen of the United States, residing at Wichita Falls, in the county of Wichita and State of Texas, have invented a new and useful Closet, of which the following is a specification.

This invention relates to an improvement in dry closets.

The primary object of the invention is to so construct a dry closet that the odors will not be admitted to the room in which the same is placed.

Another object is to provide means for closing the opening to the hopper when the closet is not in use, said means being opened and closed as the lid of the closet is raised and lowered.

A further object is to provide means for conveniently spraying a disinfectant within the excreta receptacle, and a still further object is to so construct the closet that the excreta will be deposited in one receptacle, while the urine will be conducted to a point remote from the closet.

In the drawings:—Figure 1 is a side elevation, a portion of the closet being broken away to show the arrangement of the urine trough. Fig. 2 is a front elevation, partly in section of the disinfectant distributing mechanism. Fig. 3 is a section on the line 3—3 of Fig. 2. Fig. 4 is a section on the line 4—4 of Fig. 1. Fig. 5 is a top plan view of the sliding closure.

In the drawing 10 designates the hopper which is supported by a stand or as shown in the drawings, the same may be supported by the floor. The base extending to a point above a platform which is designed to support a receptacle for the excreta. The hopper is preferably tapered, the smaller end being so formed as to extend with a receptacle 11 which is removably positioned beneath the hopper, said receptacle having a restricted neck of sheet metal which may be reinforced by a metal band 12.

Arranged to rest within the hopper is the trough 14 which is connected to a tube 15. This trough receives the urine and the pipe 15 conducts the same to a point remote from the closet. The odors from the receptacle are conducted from the closet by means of a pipe 11′ which is secured to the receptacle 11 in such a manner that said receptacle may be removed without displacing said pipe.

A supporting block 16 is positioned at the rear of the hopper and to this block are hingedly secured the lid 17 and the seat 18. The seat is spaced from the hopper a distance sufficient to allow a sliding closure 19 to move beneath the same. Pivotally secured between the bifurcations of a lug 20 which is secured to the lid 17 is a lever 21 which in turn is connected to a curved lever 22 which is pivoted at 24 to the casing 25. A short link 26 connects the sliding closure 19 with said lever and it will be noted that by this connection the lifting of the lid 17 will slide the closure 19 to the position shown in dotted lines in Fig. 1.

The receptacle 25 is adapted to contain a disinfectant which is preferably in the form of a powder, the walls of the receptacle adjacent the base being so shaped as to direct the powder through a plurality of apertures 27. A tube 28 is secured below said casing 25, said tube being formed with a longitudinal slot 29 which registers with the apertures 27. The apertures 27 are normally closed by means of a slide 30 arranged within the receptacle. This slide is mounted on one of a plurality of L-shaped members 30′ formed of wire and which are secured to a shaft 31. This shaft 31 is supported by the end walls of the casing 25 and when rotated in the manner which will be hereinafter described moves the slide 30 to uncover the apertures 27, thus allowing the disinfectant to enter the tube 20. The L-shaped members 30′ extend radially from the shaft 31 and the members other than the one carrying the slide 30 act to properly distribute the material within the pipe 28.

The tube 28 is provided at either end with a flexible extension, the flexible tube 32 entering the receptacle 11 at the point 33, the other extension 34 being connected to a bulb 35 which is supported by a bracket 36 at a point adjacent the casing 25. It will be noted that by this construction a pressure of the bulb 35 will spray the material contained in the tube 28 to the receptacle 11, the apertures being closed during this spraying. In order to open the slide 30 at the proper intervals the slotted L-shaped lever 37 is arranged on the shaft 31, the projection 31′ carried by the lever 22 being adapted to extend within the slot formed in the lever 37. Thus it will be noted that as the lid 17 is raised and the lever 21 moved to the position shown in dotted lines in Fig. 1,

the L-shaped lever 37 will move to the position shown in dotted lines, which movement will rotate the shaft 31 to admit the material within the tube 28. After the closet has been used the lid 17 is closed which will move the slide 19 to close the hopper, the slide 30 being moved consonantly with the slide 19 to close the apertures 27 in the receptacle 25. The bulb 35 is then pressed to force the disinfectant within the receptacle 11.

The many advantages of a closet constructed in this manner will be clearly apparent as it will be noted that the odors which would normally penetrate into the room in which the closet is placed are conducted to a point remote from the room, the excreta deposited within the receptacle being sprayed with a disinfectant, this disinfectant being supplied by a distributing member after each use of the closet.

Particular attention is called to the peculiar construction of the casing 25 and the manner in which the disinfectant is supplied to the tube arranged beneath the same. It will be noted in a construction of this character that the entire closet is at all times in a perfect sanitary condition, the same having every advantage of a water closet in which a liquid seal prevents the fumes from arising from the hopper.

What is claimed is:—

1. In a dry closet, a hopper, a receptacle positioned below said hopper, a connection between said receptacle and hopper, a disinfectant distributing mechanism, a hinged lid for said hopper, a lever actuated by said hinged lid, said disinfectant mechanism including a casing, a pipe arranged below said casing, a shaft which when rotated causes the disinfectant material to be deposited within said pipe, a slotted lever mounted on said shaft, said lever being formed with an offset end, a pin carried by the first mentioned lever, said pin riding in the slot formed in the second mentioned lever, and means for spraying the disinfectant within said receptacle.

2. In a dry closet, a hopper, a receptacle positioned below said hopper, a connection between said receptacle and hopper, a disinfectant distributing mechanism, a hinged lid for said hopper, a lever actuated by said hinged lid, said disinfectant distributing mechanism including a casing, the side walls of which slope toward the base, the bottom of said casing being provided with a slot, a shaft supported by and extending within said casing, a closure for said slot mounted on said shaft, a plurality of agitators arranged on said shaft, a slotted lever arranged on the said shaft, said slotted lever having an operative connection with the first mentioned lever, and means for spraying the said disinfectant within the said receptacle.

3. In a dry closet, a hopper, a receptacle arranged below said hopper, a hinged lid for said hopper, a disinfectant distributing mechanism, said mechanism including a casing, a shaft rotatably supported within said casing, said casing being provided with a plurality of apertures, a pipe arranged below said casing, said pipe being formed with a longitudinal slot, a closure for said apertures carried by said shaft, a plurality of agitators carried by said shaft, and means for spraying the disinfecting material within said receptacle.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

LEVI H. CROW.

Witnesses:
FRED SOLOSTLZ,
J. W. RELING.

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