

J. W. SOFTLEY.
CABINET CLOSET.
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953,401.

Patented Mar. 29, 1910.

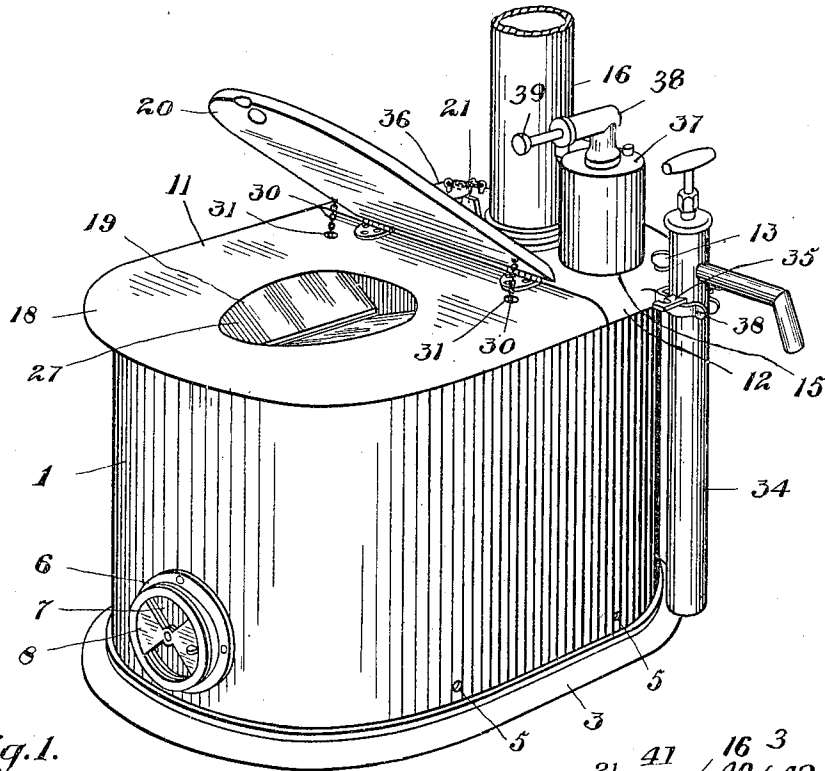


Fig. 1.

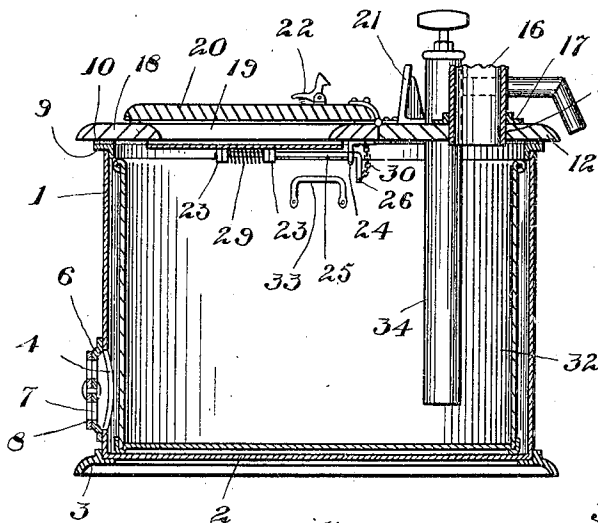


Fig. 2.

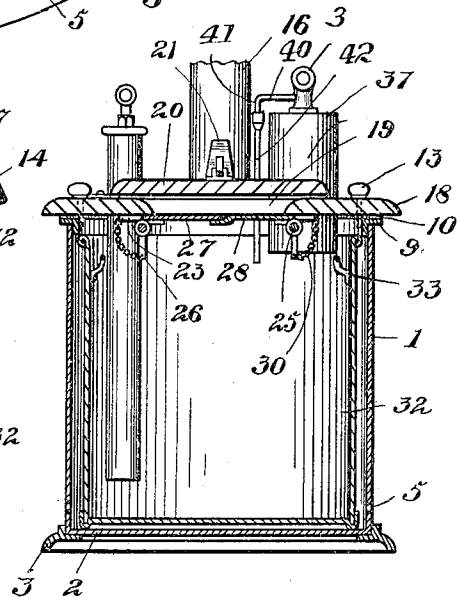


Fig. 3.

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UNITED STATES PATENT OFFICE.

JAMES WILSON SOFTLEY, OF GRIMSBY, ONTARIO, CANADA.

CABINET-CLOSET.

953,401.

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To all whom it may concern:

Be it known that I, JAMES WILSON SOFTLEY, a subject of the King of Great Britain, and resident of the town of Grimsby, county of Lincoln, Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in Cabinet-Closets, of which the following is a specification.

10 The invention relates to improvements in cabinet closets, as described in the following specification and illustrated in the accompanying drawings that form part of the same.

15 The invention consists essentially in the novel construction and arrangement of parts, whereby a constant circulation of air around the septic tank is assured by inclosing said tank within a casing having suitable air inlets and an outlet and whereby the seat opening is automatically and tightly closed by a hinged plate or shutter or a pair of shutters co-acting with the cover or lid.

20 The objects of the invention are, to provide a sanitary closet to be used where it is not possible to have the ordinary water flushed closet and to devise a neat and simple form of closet, which is odorless and well ventilated.

30 In the drawings, Figure 1 is a perspective view of my device showing the cover in a partly raised position disclosing the inside closing members. Fig. 2 is a longitudinal vertical section of my device. Fig. 3 is a vertical cross section.

35 Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, 1 is a casing preferably formed of sheet metal and having a closed bottom 2 secured in a metal ring 3 forming the base, said casing having a circular opening 4 in the front end thereof adjacent to the bottom and the small openings 5 in the sides.

45 6 is a plate covering the circular opening 4 and having the damper openings 7 therethrough and supporting the damper 8.

9 is a ring formed angular in cross section secured to the upper edge of the casing 1.

50 10 is a gasket of felt or other suitable material cemented to the flat top of the ring 9.

11 is the top formed in two sections the rear section 12 being rigidly secured to the

ring 9 by a suitable thumb-nut 13 and having a central orifice 14 therethrough and a side orifice 15. 16 is a pipe inserted in the central orifice 14 and having a suitable collar 17 resting on the said top and holding the said pipe securely in position, said collar being secured to said top in any suitable manner. The pipe 16 leads to a suitable exit opening either to the open air or to a chimney flue and thus establishes an air circulation through the said casing from the damper 8 and openings 5 in the side wall of said casing.

18 is the front section of the top 11 hinged to the section 12 and resting on the gasket 10 and having an opening 19 therethrough. 20 is a cover hinged to the said back and front sections and swinging from said front section on its hinged support independently.

21 is a bracket rigidly secured to the rear section 12 and extending upwardly therefrom.

22 is a dog pivotally secured to the cover 20 and adapted to engage the top of the bracket 21, said dog being spring held to remain in engagement with said bracket on the raising of said cover to its open position.

23 are pairs of brackets secured to the under-side of the front section 12 of the top, close to the side edges of the opening 19 and about mid-way of the length of said opening, said brackets having a journal orifice therein. 24 are brackets secured to said top adjacent to its hinged end and having journaled orifices therethrough arranged in alinement with said pairs of brackets 23. 25 are rods journaled in said brackets 23 and 24 and having the lever ends 26 extending downwardly from the brackets 24.

27 and 28 are plates of sheet metal or other suitable material fixedly secured to the rods 25 and arranged to overlap and completely close the opening 19, said plates being spring held in their closed position by the springs 29 encircling the rods 25.

30 are short length of chain secured at one end to the lever ends of the rods 25 and extending upwardly through the holes 31 in the front section 12 of the top and secured to the cover 20. It will thus be seen that when the cover 20 is in its closed position the plates 27 and 28 are also in

their closed position. A slight slackness is allowed in the chains 30 so that the cover may be raised part-way before the plates 27 and 28 are operated, but when the slack of the said chains is taken up, the upward movement of the cover, pulling on the lever ends of the rods 25, swings said plates downwardly and outwardly clear of the opening 19. The cover is held in its raised position by the dog 22 engaging the bracket 21. On the dog 22 being released by pressing on the finger portion thereof, the cover may be closed. Immediately the cover begins to move downwardly the plates 27 and 28 swing inwardly to their closed position closing the opening 19 before the cover reaches the downward limit of its movement. The casing or cabinet is thus completely closed and rendered air-tight at the top and all air passing through the vent openings adjacent to the bottom of said casing will pass through the pipe 16.

32 is a receptacle placed within the casing 1 having the handles 33 secured to the inner side thereof. This receptacle is lined or coated on its inner surface with a suitable acid proof material and forms the septic tank.

34 is a suction pump of any suitable style having the lugs 35 secured thereto adjacent to the top. The pump 34 is adapted to be inserted in an opening in the rear section 12 of the top and extend into the septic tank and operated to remove the contents of said tank.

36 is a plug secured to the top of the casing by a suitable chain and closing the opening through which the pump is inserted.

37 is a disinfectant receptacle secured in the orifice 15 in the top 11.

38 is an air pump having its discharge opening leading into the receptacle 37 and a spring held plunger 39 adapted to engage the cover 20 on the raising of same.

40 is a pipe extending downwardly in the receptacle to near the bottom thereof. The outer end of the pipe 40 projects beyond the receptacle and is formed with a downwardly turned end 41.

42 is a pipe attached to the end of the portion 41 of the pipe 40 and leading to the septic tank. An air vent is formed at the connecting point of the pipes 40 and 42 so that the disinfecting fluid will not siphon out of the receptacle. When the cover is raised it engages the plunger 39 and forcing said plunger inwardly creates a pressure within the receptacle 37. The air pressure causes a small quantity of the disinfecting fluid to flow through the pipes 40 and 42 to the septic tank.

The pump 34 is, when not in use, supported in the spring clip 38 secured to the top of the device.

A device such as described being completely closed in at the top, prevents the escape of air therefrom into the room in which it is placed and as the air inlets are arranged at the bottom of the casing and the outlet at the top of the casing, a natural ventilation is established, thus rendering the device perfectly sanitary, so that it may be used with perfect safety in private uses, hospitals, school houses or other buildings where there is no sewage disposal and water works system.

A suitable acid solution is placed in the receptacle 32 and may be renewed as required.

What I claim as my invention is:—

1. In a cabinet closet, a septic tank, a casing inclosing said tank and having air inlets and an air outlet, a top having a suitable seat opening therethrough, a cover hinged to said top and closing over said seat opening, a pair of shutters hinged at their outer sides to the underside of said top and closing together at their inner edges to close said seat opening, spring means for holding said shutters to their closed position, and means connected to said cover for swinging said shutters downwardly and outwardly.

2. In a cabinet closet, a septic tank, a casing inclosing said tank and having air inlets and an air outlet, a top having a suitable seat opening therethrough, a cover hinged to said top and closing over said seat opening, a pair of shutters hinged at their outer sides to the underside of said top and each having a lever extending angularly therefrom, spring means for holding said shutters to their closed position, and flexible means connected to the outer ends of said levers and to said hinged cover for swinging said shutters outwardly and downwardly on the raising of said cover.

3. In a cabinet closet, a septic tank, a casing inclosing said tank and having an open top, a top closing in said casing and having a seat opening therethrough and a pair of small orifices arranged one at each side of said seat opening and to the seat thereof, a pair of rods pivotally secured to the underside of said top and having cranked ends, a pair of leaf shutters, one secured to each of said rods and closing together at their inner edges to close said seat opening, springs holding said shutters to their closed position, and a pair of flexible cords or chains connected at one end to the cranked ends of said rods and extending through the small orifices in said seat and secured at the other ends to said hinged cover.

4. In a cabinet closet, a septic tank, a casing inclosing said tank and having air inlets and an air outlet, a top having a suitable seat opening therethrough, a cover hinged to said top and closing over said seat open-

ing, a pair of shutters hinged to the under-
side of said top and closing said seat opening
in co-action with the operation of said cover,
a bracket rigidly secured to said top, and a
5 dog secured to said cover and engaging said
bracket in the raised position of said cover.

Signed at the city of Guelph, county of

Wellington, Province of Ontario, in the Do-
minion of Canada, this 12 day of January,
1909.

JAMES WILSON SOFTLEY.

Witnesses:

ERNEST E. PRINE,

J. R. HOWITT.