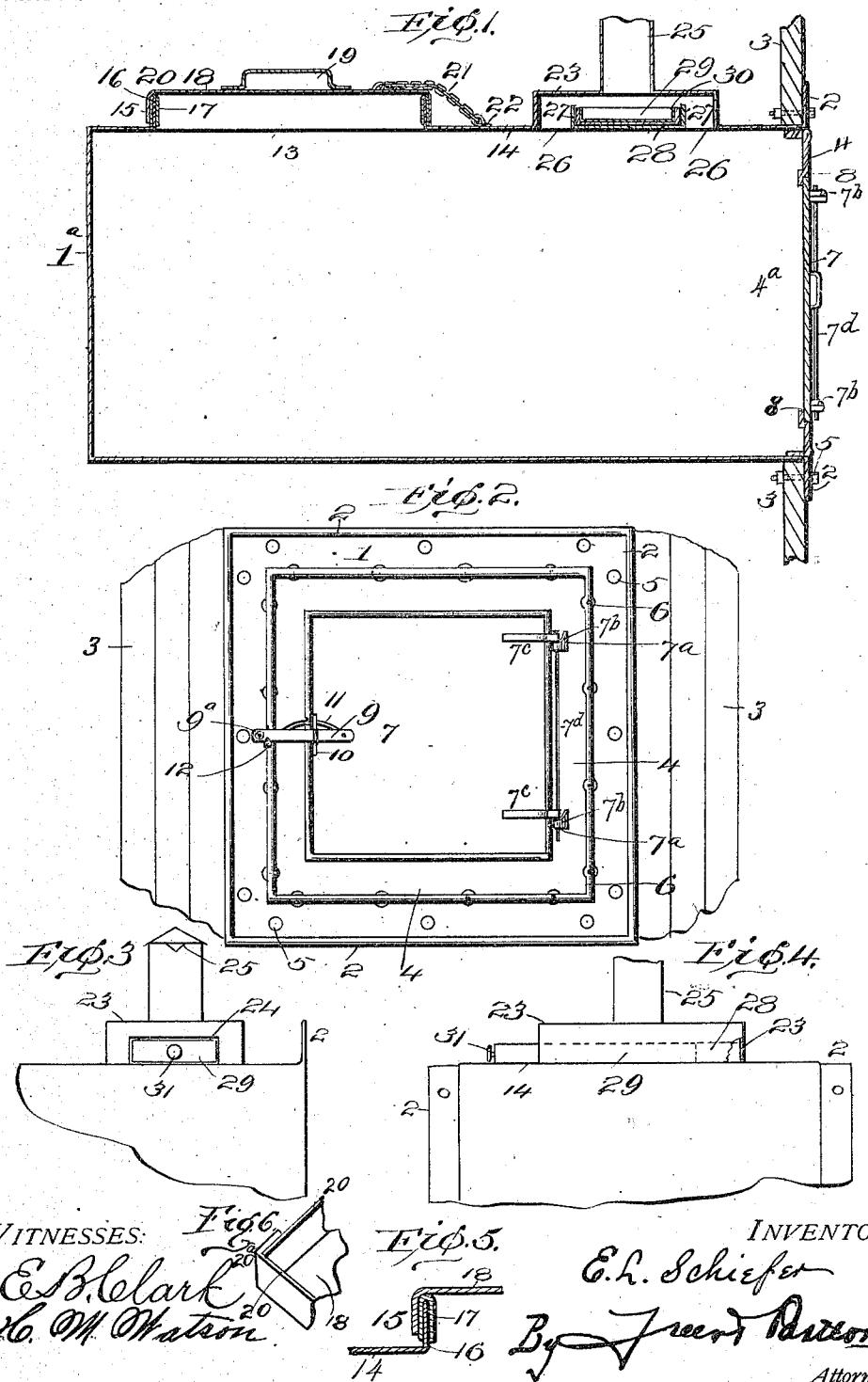


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E. L. SCHIEFER.  
GARBAGE VAULT OR RECEPTACLE.  
APPLICATION FILED DEO. 2, 1902.

NO MODEL.



# UNITED STATES PATENT OFFICE.

EDWARD L. SCHIEFER, OF ST. LOUIS, MISSOURI.

## GARBAGE VAULT OR RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 723,318, dated March 24, 1903.

Application filed December 2, 1902. Serial No. 133,572. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD L. SCHIEFER, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented 5 new and useful Improvements in Garbage Vaults or Receptacles, of which the following is a specification.

This invention relates to garbage-vaults, and more particularly to a metallic vault 10 adapted to be secured to a fence or wall or in the wall of an outbuilding and made accessible by an outer doorway to the garbage-collector, who may pass in an adjacent alley.

The object of my invention is to provide a 15 garbage-vault which is simple in construction, strong and durable, and is convenient and effective in meeting the needs of the public.

A special object of my invention is to provide 20 a vault which shall be safe and altogether sanitary, having means for disinfecting and deodorizing any noxious gases which may arise from the contained garbage, so as to prevent the escape of all bad odors and 25 gases into the atmosphere.

The matter constituting my invention herein will be defined in the claims.

I will now describe the details of construction of my improved vault by reference to 30 the accompanying drawings, in which—

Figure 1 represents a vertical longitudinal section of the vault. Fig. 2 represents a front end elevation showing the delivery-door with its self-closing hinges and spring-latch. Fig. 3 represents a detail view in elevation of the 35 sanitary vault or chamber, showing the removable pan or drawer for holding the disinfectant and deodorizer. Fig. 4 represents a longitudinal sectional detail showing the 40 disinfectant-pan partly withdrawn from its receiver. Fig. 5 represents a detail view, on enlarged scale, showing the construction of the lid-casing frame 15. Fig. 6 represents a detail view of one corner of the cover.

The garbage-vault 1 is constructed of galvanized iron or other suitable heavy sheet metal, though it may be made of wood lined with sheet metal. It is preferably made of galvanized iron and at the delivery end is provided with outwardly-extending flanges 2, by means of which and suitable bolts or rivets 5 it is secured to the fence 3 or to the

wall of an outbuilding, wherever it will be most convenient and accessible to the collector of garbage. To the delivery end is secured the door-frame 4 by means of bolts or rivets 3. The door-frame is provided at its inner edges with an inset or jamb 8, adapted to receive the door 7, which is connected with the frame by means of self-closing hinges 7<sup>a</sup>. 55 These hinges are of peculiar construction and of such a nature that when the door has been swung open they will automatically swing it forward and close it upon its seat or jamb 8. To the door-frame 4 are secured the lugs 7<sup>b</sup>, having curved outer surfaces and inclined upper edges, upon which rest the outer ends of the lugs 7<sup>c</sup> on the door. A long rod or pintle 7<sup>d</sup> passes through both sets of lugs for hinging the door to the frame. When 60 the door is swung open, the lugs 7<sup>c</sup> on the door ride up on the inclined edges of the lugs 7<sup>b</sup>, carrying the door upward as it is opened. When the door is released, it will by gravity slide down the inclined upper 65 edges of the lug 7<sup>b</sup>, and thus automatically close upon its seat 8. Near the front edge of the door is pivotally connected a spring-latch 9, which is held in position by a keeper 10, which permits the latch to be raised and 70 lowered. To the latch 9 is secured a flat spring 11, which bears against the upper part of the keeper, so as to press the latch downward in order that it may be caused to engage with the catch 12 upon the door-frame 75 for latching and holding the door closed. The outer end of the latch 9 is provided with a knob 9<sup>a</sup> for raising it by hand out of the catch 12. By means of the self-closing hinges 7<sup>a</sup> and the spring-fastening devices above described the door will always be certainly 80 closed when released by the garbage-collector or other attendant.

The garbage-vault is made long enough to receive a depository drawer or pan of any desired shape and also to contain at the top a depository-opening 13 and a sanitary chamber 23. At the depository-opening 13 the metal of the top plate 14 is cut so that there shall be formed a flange 16 on the four sides, which is turned up vertically and is embraced all around by a continuous strip or collar 17, bent double and secured by rivets or solder to the bent-up flange 16, as shewn in Figs. 1 85 90 95 100

and 5. This bent-up flange 16 and the embracing-collar 17 form the lid-casing frame 15 and when made as described and shown is water-tight, strong, and durable. The cover 5 18 is made of one piece of sheet metal, and the turned-down flanges 20 are overlapped at the corners 20<sup>a</sup> and secured by solder or rivets to make tight joints. To the top of the cover is secured a handle 19 and a chain 10 21 by means of a staple or other device, and the chain is connected at its other end to a staple 22 in the top plate 14, so that the cover, while free to be raised and lowered, is not liable to be lost or misplaced.

15 To the top of the vault is secured the sanitary chamber 23, which is provided at one side with a rectangular opening 24 for receiving the pan or drawer 29, and it is also provided at the top with a flue or chimney 25, 20 which may extend to the top of the fence or to the top of the outbuilding where the vault is placed, as preferred. Within the sanitary chamber 23 the top plate 14 of the vault is cutaway to form transverse rectangular openings 26, which are substantially parallel and are spaced apart, as shown in Fig. 1. The metal flaps or flanges 27, which are cut from the opening 26, are turned up at right angles to the plate 14 and form the receptacle 28 for 30 the pan or drawer 29, which can be slid outward and inward through the opening 24, Fig. 3, and is provided with a lining 30, of glazed pottery-ware or glass, which may be in the form of a removable pan or tray. The pan 35 or drawer 29 is for the purpose of receiving a disinfectant and deodorizer either in liquid or powdered form. Any suitable lining which will resist the action of the disinfectant can be applied to the drawer instead of the glass 40 or pottery dish 29. The rectangular openings 26 on each side of the drawer 29 are for the escape of gases which may arise from the garbage in the vault, and the openings are so placed that the gases must pass directly over 45 and practically in contact with the top of the drawer containing the disinfectant, so that they shall be deodorized and disinfected on their passage to the escape-flue or chimney 25. It will be noted that the disinfectant-drawer 50 is directly below the opening to the chimney, which is located a very short distance above the drawer, so that the gases must pass close to or in contact with the disinfectant in their passage to the chimney. The drawer 29 is 55 provided at its front end with a knob or handle 31, by means of which it can be readily

drawn out and the disinfectant be replenished at will.

My improved vault is portable and can be quickly secured in place to the fence 3 or the 60 wall of an outbuilding wherever most accessible and convenient for the collector of garbage. Being simple in construction and every part being made strong it will be quite durable and effective in use. It is my purpose to use with this vault my improved garbage can or tank, though any improved form 65 of depository drawer or box can be used in the vault and placed directly below the depository-opening 13. By means of the door 70 provided with self-closing hinges and a spring-fastening device the garbage-collector can quickly open the door, remove the garbage can or drawer, and again tightly close the door, so that the vault shall not remain 75 open to give out offensive odor. By means of the sanitary chamber the gases are effectively deodorized, so that no offensive odors are allowed to escape into the external air.

Having described my invention, what I 80 claim, and desire to secure by Letters Patent, is—

1. A garbage-vault having a top and an end opening provided respectively with a cover and a door, and having at the top a 85 sanitary chamber provided with a lateral opening 24, and with a ventilating flue or chimney at the top, a central removable pan or drawer 29 for containing disinfectant, fitting in said lateral opening and directly below said flue, and the top of the vault having openings 26 into the sanitary chamber on each side of said disinfectant-drawer, substantially as described.

2. A garbage-vault constructed of sheet 95 metal and having portions 27, at the top, cut and turned up to form a receptacle for a pan or drawer, and make lateral openings 26 for gases, in combination with a sanitary chamber covering said receptacle and openings and having a lateral opening, a disinfectant-drawer 29 fitting said receptacle and opening, and a ventilating-flue opening above said drawer for disinfecting and deodorizing the gases arising from the vault, substantially as 100 described.

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

EDWARD L. SCHIEFER.

Witnesses:

JOSEPH M. O'REILLY,  
ROBERT A. PETERSEN.