H. T. CRONK.

REFUSE TANK.

APPLICATION FILED MAY 4, 1912.

1,203,707. Patented Nov. 7, 1916.

FIG. 1.

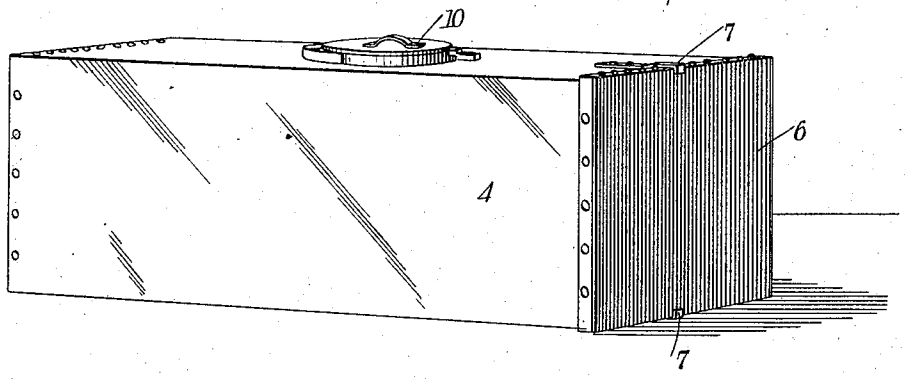
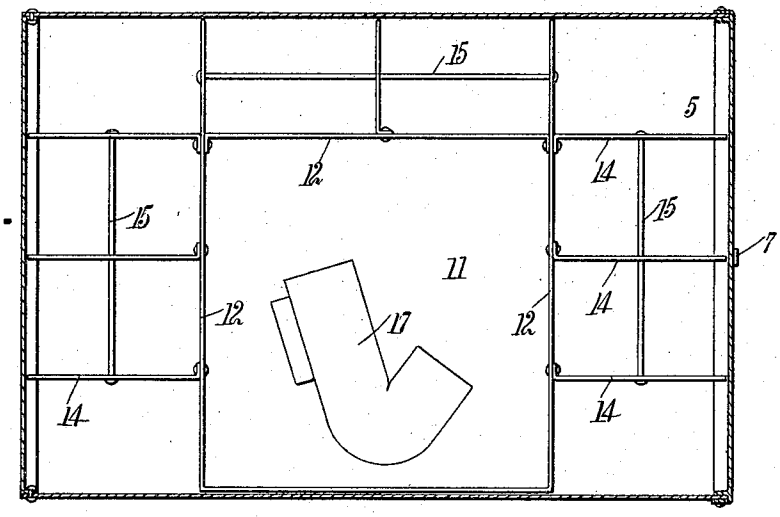


FIG. 2.



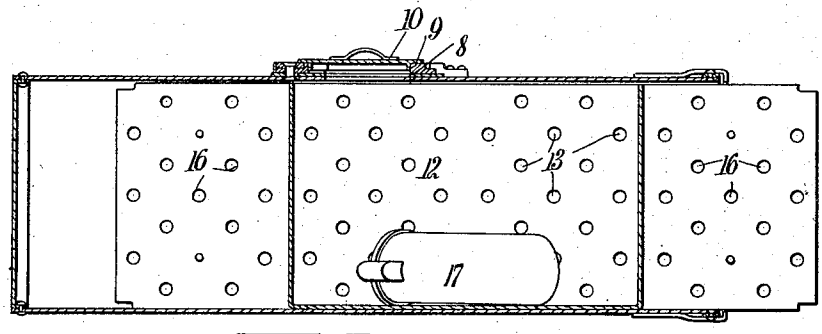


FIG. 3.

WITNESSES

G. Robert Thomas

W. L. Orton

INVENTOR

Harrison Taylor Cronk

BY Munn & Co

ATTORNEYS

THE NORR'S PETERS CO., PHOTO LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HARRISON TAYLOR CRONK, OF NEW YORK, N. Y., ASSIGNOR TO CRONK-SALTER COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

REFUSE-TANK.

1,203,707. Specification of Letters Patent. Patented Nov. 7, 1916.

Application filed May 4, 1912. Serial No. 695,135.

To all whom it may concern:

Be it known that I, HARRISON TAYLOR CRONK, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Refuse-Tank, of which the following is a full, clear, and exact description.

My invention relates to a new and improved form of refuse tank, particularly adapted for railroad service or in any location where it is necessary to receive the refuse into a storage or carrying tank.

An object of my invention is to provide a closet tank from which the solid refuse matter may be readily withdrawn without the necessity of carrying off the liquid refuse matter.

A further object of my invention is to provide a tank which will not be affected by the surging of the liquid therein due to the motion of the train or vehicle carrying the tank.

I attain the above outlined objects by disposing within the outer tank, an inner tank of relatively smaller volume, extending between which tanks are perforated positioning baffle plates.

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 figures, and in which—

Figure 1 is a perspective view showing the outer tank or casing in closed position, Fig. 2 is a horizontal cross sectional view taken through the device shown in Fig. 1, and Fig. 3 is a vertical transverse sectional view taken longitudinally through the tank and centrally thereof.

It is to be understood that this device is particularly adapted for railroad closet tanks, where it is necessary to collect the refuse and to disinfect the same before disposition.

In the drawings I have shown an outer tank 4, rectangular in construction, having an open end 5 adapted to be closed by means of a telescoping end plate 6 held in position by any suitable means, as, for instance, spring catches 7, as shown in Figs. 1 and 3. The top of the tank has an opening 8 therein adapted to contain the outlet connection from the hopper such as is shown in my Patent No. 1,021,663, March 12, 1912. This opening is surrounded by a packing joint 9, similar to the packing joint disclosed in my Patent No. 1,019,766, March 12, 1912, which opening is closed by a suitable cap 10 when the tank is disconnected from the bowl.

Disposed within the outer tank 4 is an inner tank 11 of relatively smaller volume than the outer tank, but, as shown in Fig. 3, is of the same height as the interior of said outer tank. The tank 11 is in direct communication with the opening 8 in the outer tank 4, and the walls 12 thereof have a series of perforations 13 extending therethrough, so that a fluid connection is maintained between the interior of the tank 11 and the interior of the tank 4, in order that solid matter passing into the opening 8 is retained in the inner tank 11, but the apertures 13 permit the liquid matter and small particles to flow into the portion of the tank 4 outside of the tank 11.

Forming a part of the tank 11 and extending at right angles from three of the walls 12, is a series of baffle plates 14, extending from said walls to the adjacent side of the tank 4, said series of baffle plates being preferably braced in position by a bracing rod 15. All of these baffle plates have perforations 16 extending therethrough, thereby permitting the passage of fluid from one portion of the tank 4, to another portion thereof. These baffle plates 14 afford an obstruction to the free surging of the water through the tank, preventing the violent action now common in tanks of this character, due to the periodic oscillation of the large volume of water carried by these tanks.

It will be seen by the above outlined construction, that the cover or cap 8 may be removed from the outer tank 4, and the flush water and liquid refuse drained from the tank; then the inner tank, together with the baffle plates may be withdrawn, carrying with them the solid refuse matter and trap 17, as has been described in full in my copending applications above referred to, which matter may be disinfected and destroyed in any suitable manner. The baffle plates 14 afford a ready means for carrying the tank and its contents.

The detachable inner tank may be readily cleaned, and after the tank 14 has been flushed and disinfected, the inner tank 11 is

reinserted, a new connection made with the closet bowl, and the end plate 6 reinserted in position.

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

1. A closet refuse receptacle, comprising an outer tank and in fluid communication therewith, an inner tank removably carried by said outer tank, baffle plates carried by said inner tank and extending from a wall of said inner tank to the adjacent wall of said outer tank, said baffle plates having apertures extending therethrough, to permit the passage of water from one portion of said outer tank to another portion thereof, and bracing rods connecting certain of said baffle plates.

2. A closet refuse receptacle, comprising an outer tank, an inner tank removably carried by said outer tank and fitting between the top and bottom walls thereof, baffle plates carried by said inner tank and extending from a wall of said inner tank to the opposite wall of said outer tank, said baffle plates having apertures extending therethrough, to permit the passage of fluids from one portion of said outer tank to another portion thereof, and means bracing said baffle plates in position relative to each other.

3. In a device of the class described adapted to be carried on a railroad-car, the combination with an outer tank having an opening thereto for the admission of refuse, and means for closing said tank, of an inner tank removably positioned within said outer tank and in fluid communication therewith supported from the bottom thereof engaging the top thereof and in communication with said opening to receive the refuse inserted through said opening, said inner tank having portions thereof engaging the inner side walls of the outer receptacle to prevent movement of said inner receptacle due to the rocking of the car.

4. In a device of the class described, the combination with an outer tank adapted to contain liquid refuse material, said tank having an inlet thereto, of an inner tank adapted to be inserted within said outer tank resting on the bottom of the outer tank and means bracing said inner tank from movement in all directions, said inner tank adapted to be placed in communication with said inlet, said inner tank having a fluid communication with said outer tank whereby liquids will drain from said inner into said outer tank while retaining the solid matter within said inner tank.

5. In a device of the class described, the combination with a rectangular tank having an open end and having an inlet in the top thereof, of an inner tank adapted to be inserted into said outer tank through said open end into communication with said inlet, means for closing said open end, said inner tank having a height to fit between the top and bottom walls of said outer tank and having means coextensive with the height of the inner tank extending therefrom for bracing the same from the side walls of the outer tank.

6. In a device of the class described, the combination with a rectangular tank having an open end and having an inlet in the top thereof, of an inner tank adapted to be inserted into said outer tank through said open end in communication with said inlet, means for closing said open end, said inner tank having a height to fit between the top and bottom walls of said outer tank and having means extending therefrom for bracing the same from the side walls of the outer tank, said inner tank having an aperture therethrough adjacent the bottom to drain liquid from said inner tank.

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

HARRISON TAYLOR CRONK.

Witnesses:

JOSEPH ISAACS,

CARRIE ISAACS.

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