Aug. 16, 1927. 1,638,869

F. J. MOSS

SEPTIC TANK

Filed Dec. 15, 1925 2 Sheets-Sheet 1

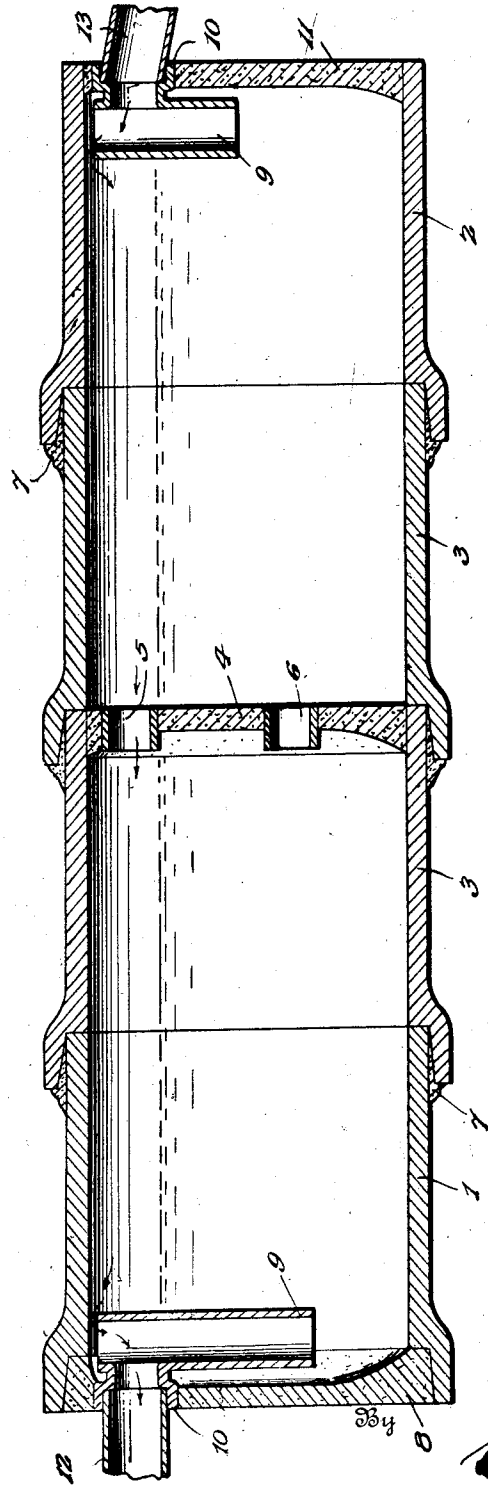


Fig. 1.

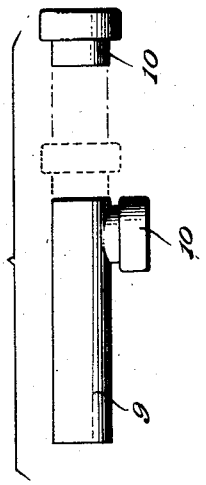


Fig. 2.

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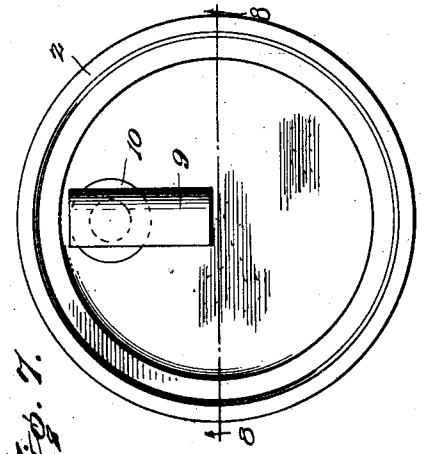


Fig. 1.

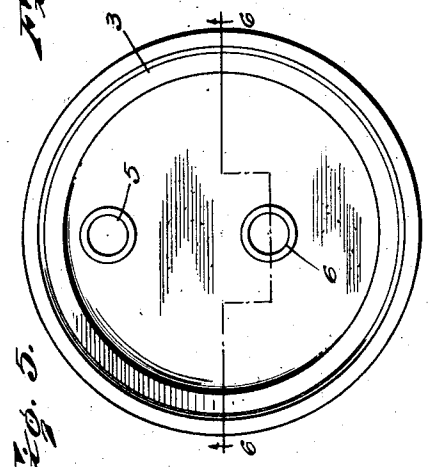


Fig. 5.

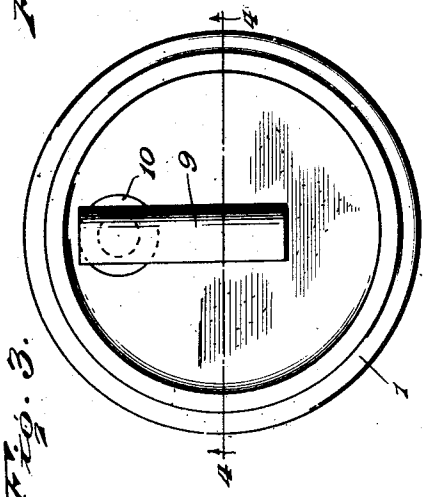


Fig. 3.

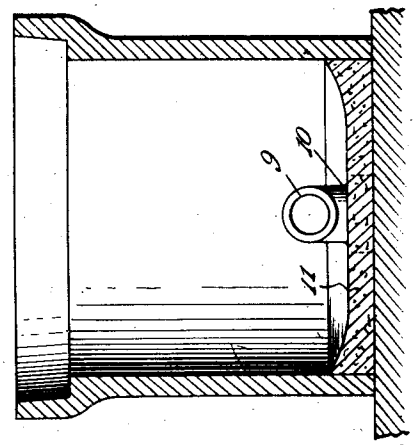


Fig. 8.

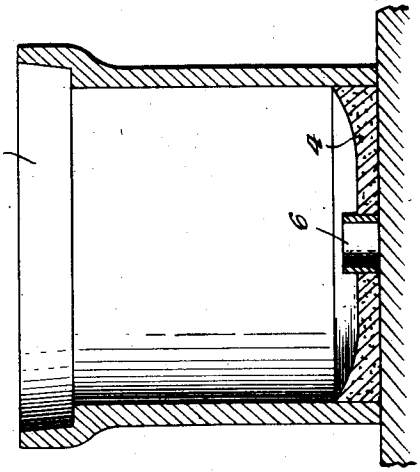


Fig. 6.

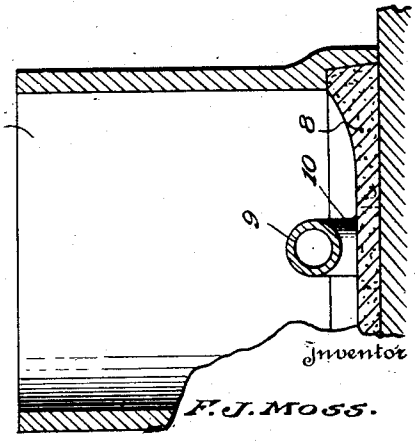


Fig. 4.

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By Lacey & Lacey, Attorneys

Patented Aug. 16, 1927. 1,638,869

UNITED STATES PATENT OFFICE.

FRED J. MOSS, OF CONNEAUT LAKE, PENNSYLVANIA, ASSIGNOR TO MOSS BROTHERS, OF CONNEAUT LAKE, PENNSYLVANIA, A FIRM CONSISTING OF HIMSELF AND ENOS T. MOSS.

SEPTIC TANK.

Application filed December 15, 1925. Serial No. 75,593.

This invention relates to means for the disposal of excrement or effete matter in localities devoid of sewers and where collection is not desirable or provided for.

The main feature of the invention is a septic tank formed of stock material, such as terro cotta sewer pipe, whereby the same may be constructed at a minimum cost both as regards labor and material.

While the drawings illustrate a preferred embodiment of the invention it is to be understood that in adapting the means to meet specific needs and requirements the design may be varied, and such other changes in the minor details of construction may be resorted to within the scope of the invention as claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and the drawings hereto attached, in which,—

Figure 1 is a vertical, central, longitudinal, sectional view of a septic tank embodying the invention,

Figure 2 is a side view of a branch T pipe utilized both as the inlet and the outlet, the dotted lines at one end showing the end portion which is cut from the pipe and the full line indicating the end portion removed,

Figure 3 is an end view of the receiving section as it appears from the small end and having the large or bell end closed and the inlet pipe in place.

Figure 4 is a sectional view on the line 4—4 of Figure 3 looking in the direction of the arrows,

Figure 5 is a view similar to Figure 3 of the intermediate baffle section,

Figure 6 is a sectional view on the line 6—6 of Figure 5,

Figure 7 is a view similar to Figure 3 of the discharge section, and

Figure 8 is a sectional view on the line 8—8 of Figure 7 looking in the direction of the arrows.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The tank is formed of terra cotta sewer pipe and comprises any number of sections of a length and diameter depending upon the capacity of the tank and the material available. The body of the tank comprises a receiving section 1, a discharge section 2 and one or more intermediate sections 3, to which is fitted a partition of baffle 4 having an upper opening 5 and a lower opening 6, the upper opening providing for a circulation of air and the lower opening providing for a circulation of the liquid and matter to be disposed of. The several lengths of sewer pipe are coupled in the usual way by having the small end of one inserted in the bell of the other, the joints being sealed by cement 7 or equivalent bonding material.

The receiving section 1 is closed at its outer end by a wall of cement 8 which is applied after the length of pipe has been placed on end as indicated most clearly in Figure 4. A terra cotta pipe 9 of small diameter and having a branch 10 is utilized for the inlet as well as for the outlet as indicated most clearly in Figure 1 and this pipe may be shortened by having a portion cut from one or both ends as required. The pipe utilized for the inlet has a portion cut from one end only as indicated in Figure 2, whereas the pipe used for the outlet has portions cut from both ends as indicated in Figure 1. The pipe 9 is placed crosswise of the body pipe with the branch 10 embedded in the concrete cement or like material 8, the upper end being arranged a short distance from the top side of the body pipe to allow the air in the tank to escape as the tank fills. The discharge section 2 is closed at the outer end by a wall 11 of cement or like material which is applied in the manner set forth in connection with the wall 8 and a pipe 9 is fitted to the wall 11 and constitutes the outlet. The openings formed in the wall 4 may have collars or short lengths of pipe fitted thereto, and the same may consist of the end pieces cut from the pipe 9 forming the inlet and the outlet.

The tank is set in the ground in the usual way and the sewage to be disposed of is supplied thereto by means of a soil pipe 12 and the clear liquid passes off through a drain pipe 13 which is coupled to the branch of the outlet. The capacity of the tank as well as the size of the sewer pipe available will determine to a large extent the number of

lengths of pipe to be used in the formation of the tank and inasmuch as such tanks are not designed for indefinite use it is not deemed necessary to provide a clean out opening, because should occasion require an opening may be cut through the top of the tank and subsequently closed in any determinate way.

The lengths of sewer pipe may be of any material available and on hand at the source of supply and usually consist of terra cotta, cement, iron and the like. It is further noted that the stock sewer pipe utilized for the inlet and the outlet may have a portion cut from either or both ends depending upon the diameter of the pipe used for the body of the tank.

Having thus described the invention, I claim:

A septic tank comprising a plurality of lengths of stock pipe arranged end to end, and intermediate and terminal lengths having inset end walls of cement, the intermediate length having upper and lower openings in its end wall in which short pieces of pipe are set, and branch stock pipe having the branches set into the top portion of the end walls and having the upper end terminating a slight distance from the top of the tank and the lower end a short distance from the bottom of the tank.

In testimony whereof I affix my signature.

FRED J. MOSS. [L. S.]