July 1, 1930. I. GUTMAN ET AL 1,769,340

SEPTIC TANK STRUCTURE

Filed Sept. 4, 1928

Fig. 1.

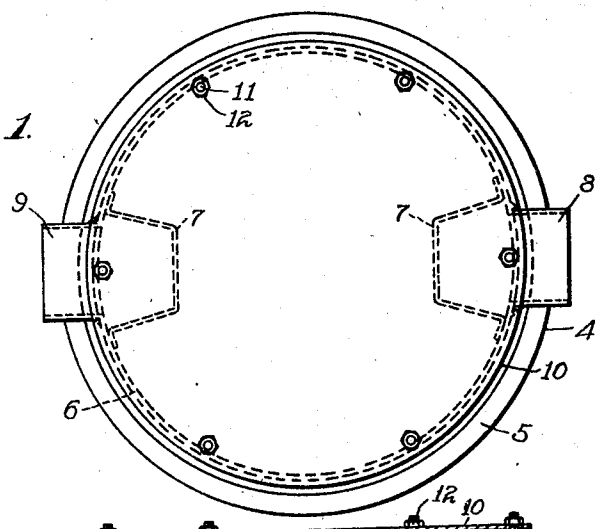


Fig. 2.

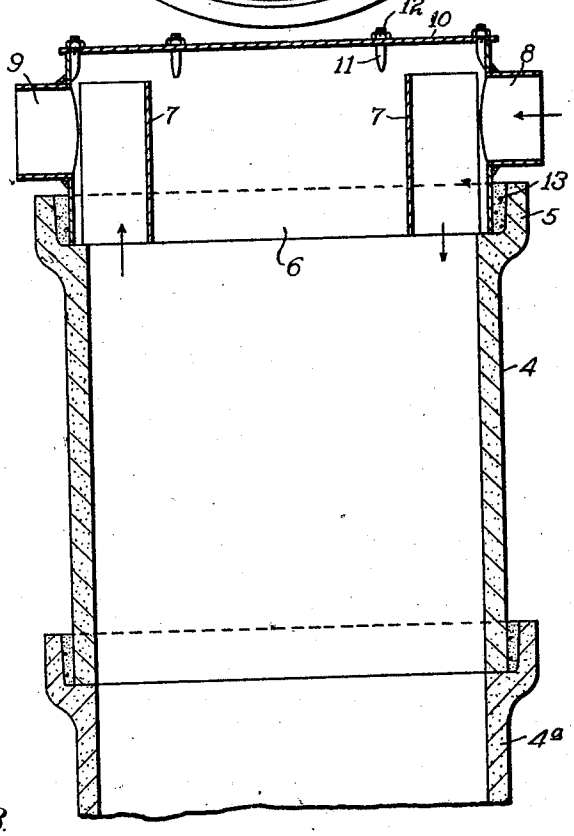
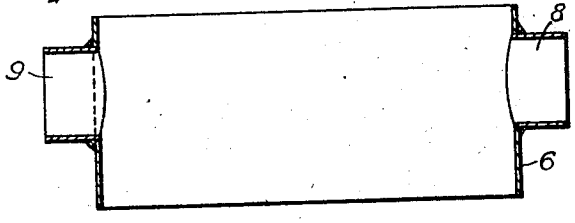


Fig. 3.



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UNITED STATES PATENT OFFICE

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SEPTIC-TANK STRUCTURE

Application filed September 4, 1928. Serial No. 303,670.

Our invention relates, more particularly, to septic tank covers and the like, although it is capable of use in various other relations.

One object of our invention is to provide a septic tank structure for sewage disposal, having a cover of such form that it may be applied to ordinary sewer pipe or standard tile sections.

Another object of our invention is to provide a tank cover of such form that it may serve both as an inlet and an outlet for the container or receptacle with which it is to be employed.

Another object of our invention is to provide a sanitary tank attachment which may be conveniently applied to standard tile or sewer pipe sections and which is of such form that baffles need not be placed in such tile sections but the completed structure nevertheless functioning as a complete septic tank installation.

Still another object of our invention is to simplify and improve generally upon septic tank structures.

One form which our invention may take is shown in the accompanying drawing wherein Figure 1 is a plan view of the installation; Fig. 2 is a vertical sectional view thereof, and Fig. 3 is a view showing a portion of the hood or cover member of Fig. 2.

Referring to Figs. 1 and 2, 4 and 4^a represent drain tile or sewer tile sections of standard form, the section 4 having a bell mouth 5. The lower end of the tile section 4^a may be closed by cement or otherwise, if desired, as shown for instance in the Gutman Patent No. 1,649,028, dated November 15, 1927.

Instead of forming baffles in the tile section 4, and forming inlet and outlet passages through the walls thereof, as in the structure of the said patent, we provide a hood or cover member that itself carries the passages and baffles, thus making it unnecessary to alter the form of the sewer pipe or to cut inlet or outlet holes therein, and permitting the employment of any standard type of tile or sewer pipe.

This hood or cover member may be made of sheet steel, cast metal, vitrified clay, concrete, or the like, and comprises a cylindrical portion 6 to which baffles 7 may be welded or otherwise suitably secured, or the baffles may be cast integrally with the cylindrical portion 6. The sides of the hood 6 are perforated for the reception of inlet and outlet conduits 8 and 9 respectively, through which sewage or other liquid may pass.

In the event that the hood is formed of clay, the baffles and conduits may be burned in place as set forth in the Evans Patent No. 1,529,019.

A plate 10 is detachably held in place upon the hood by means of bolts 11 and nuts 12, the bolts 11 being shown as welded to the cylindrical portion 6. It is thus possible to remove the plate 10 for inspection or cleaning of the receptacle without disturbing the setting thereof, or the joint between the hood and the drain tile 4, such joint being formed by cement 13 introduced into the bell mouth of the tile section. It is of course to be understood that the plate 10 may be formed integrally with or attached to the cylindrical portion 6 of the hood in some other manner.

Sewage entering the inlet 8 will flow downwardly past the lower edge of the adjacent baffle 7 and rise in the hood into the space between the baffles, to the flow line, to permit the formation of the bacteria mat. As in septic tank structures of the usual type, the clear liquid will flow off upwardly through the baffle 7 and through the outlet 9.

It will be understood that various changes in detail other than those above indicated may be made without departing from the spirit and scope of the invention. For instance, the inlet and outlet may be differently located and the baffles may be dispensed with, if desired.

We claim as our invention:—

1. Septic tank structure comprising a receptacle, a hood-like member of sheet metal having side walls adapted to be positioned upon said receptacle, inlet and outlet conduits formed integrally with said hood and extending through the side walls thereof, and baffles formed integrally with the said hood and partially enclosing the inner ends of said

conduits, the said hood being of small vertical dimension relative to the receptacle.

2. Septic tank structure comprising a receptacle, a hood-like member of metal having side walls adapted to be positioned upon said receptacle, the side walls being provided with inlet and outlet openings, and baffles formed integrally with the said hood and partially enclosing the said openings at their inner ends, the said hood being of small vertical dimension relative to the receptacle.

In testimony whereof we, the said IRWIN GUTMAN and GEORGE E. EVANS, have hereunto set our hands.

IRWIN GUTMAN.
GEORGE E. EVANS.