July 5, 1927. 1,634,871

A. L. HEPLER

SEPTIC TANK

Filed Sept. 1, 1926

Fig. 1.

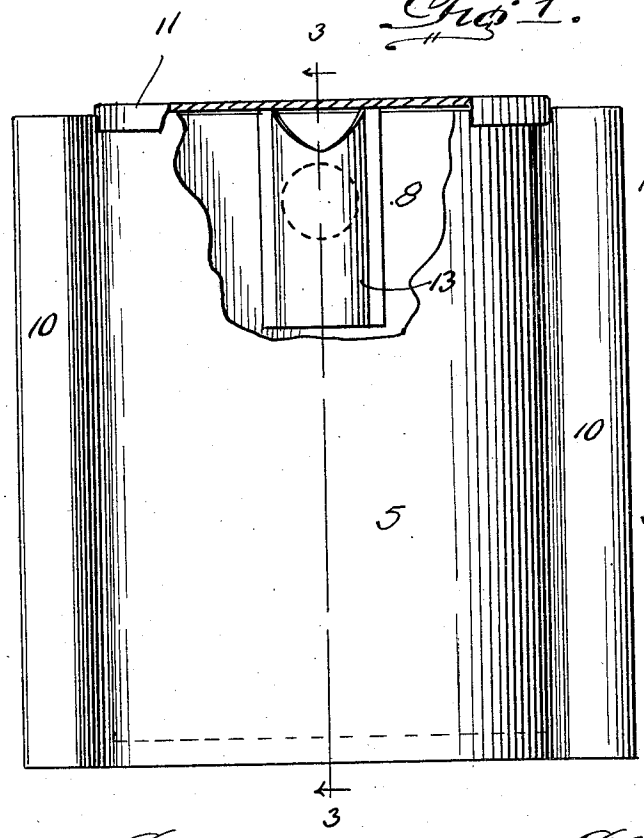


Fig. 3.

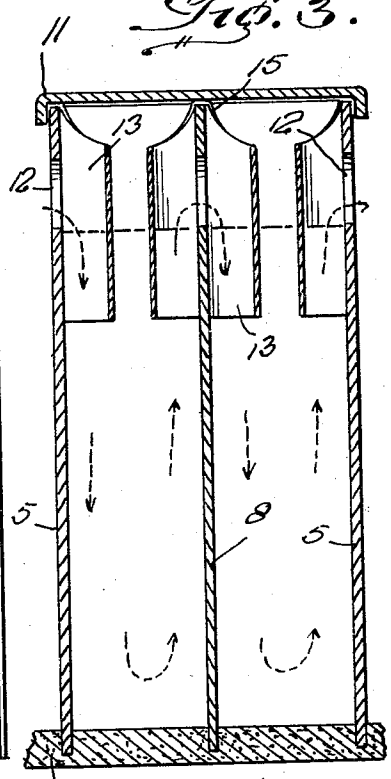


Fig. 2.

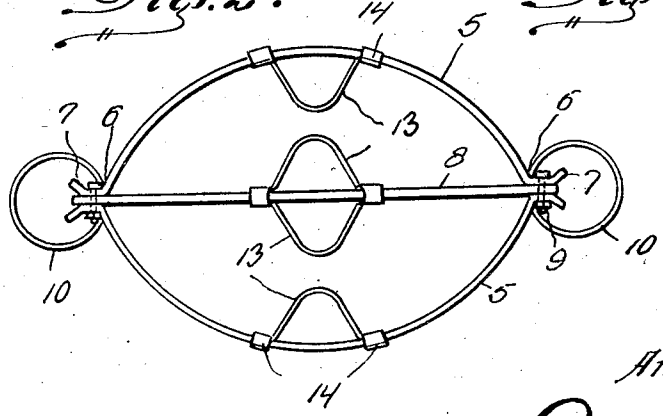
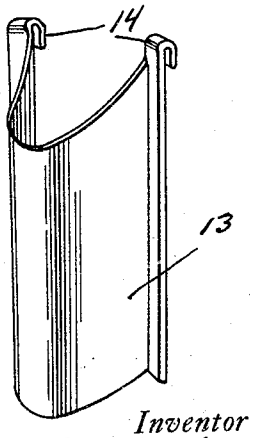


Fig. 4.



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UNITED STATES PATENT OFFICE.

ANDREW LEE HEPLER, OF MATHEWS, VIRGINIA.

SEPTIC TANK.

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This invention relates to new and useful improvements in septic tanks and has for its primary object to provide a tank comprising a pair of casing half sections in which is arranged a partition wall resulting in the provision of a plurality of compartments within the tank having communication with each other at the upper end thereof so that the material may flow from one compartment to the other, means being provided within the tank to cause the excrement to seek the bottoms of the compartments so as to become properly disseminated.

A further object is to provide a septic tank of this character that may be readily set up in an opening in the ground and wherein the edges of the tank sections may be properly sealed together so as to prevent the leakage of the fluid therethrough.

Other objects and advantages of the invention will become apparent as the nature of the invention is better understood, the same comprising the novel form, combination, and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the accompanying drawing like numerals indicate like parts, and in which:—

Figure 1 is a view in side elevation of a septic tank constructed in accordance with the present invention, the wall of the tank being broken away at its top side for more clearly disclosing one of the arcuate shaped shield members arranged within the tank at the top side thereof.

Figure 2 is a top plan view of the tank the cover thereof being removed.

Figure 3 is a detail vertical section taken substantially upon the line 3—3 of Figure 1, and

Figure 4 is a perspective of one of the shield members, per se.

Now having particular reference to the drawing there is disclosed a septic tank that consists of a pair of semi-elliptical sections 5—5 of predetermined length and width, the opposite vertical edges thereof being flanged as at 6—6 while the ends of the flanges are flared outwardly as at 7—7 in Figure 2. Arranged vertically between the sections 5—5 is a partition wall 8, the opposite edges of which extend between the flanges 6—6 of the sections after which the sections and partition wall are interconnected by reason of a bolt and nut connection 9 passing through the flanges of the sections 5—5 and also the opposite vertical edges of the partition 8, as is shown in Figure 2.

After the sections and the partition wall have been interconnected, there is arranged over the flared edges 7—7 of the section flanges 6—6 vertical spring metal tubes 10—10, the inner sides of which are formed with slots that extend throughout their length in order that these tubes may be sprung into position over the flared ends of the flanges and be maintained in proper position thereon by reason of the tubes springing together within said flared ends of the flanges. Preferably after these tubes have been arranged in position, concrete or other suitable material is poured therein while in a plastic state and when hardened forms a leak proof joint or seal between the edges of the sections 5—5 and the surfaces of the partition wall 8.

Arranged for detachable disposition upon the upper open end of the tank is a slip type cover 11, and formed in the sections 5—5 at the upper ends thereof and also within the partition wall 8 are circular openings 12 in registration with each other as clearly indicated in Figure 3. Arranged within the opening 12 at one side of the tank is the usual sewerage pipe (not shown), while arranged within the opening of the other tank section is a waste pipe (not shown), that is extended to any desirable point for drainage.

Upon the interior of the tank adjacent the openings 12 in the sections 5—5 thereof are depending arcuate shaped metallic shields 13, while at opposite sides of the opening in the partition wall 8 are similar shields. The upper ends of the shields 13 adjacent the openings in the tank sections are formed with hooks 14—14 for engagement over the upper edge of the respective tank section. The shields 13 on the opposite sides of the opening in the partition wall 8 are interconnected at their upper ends as at 15 so as to permit the same to be hung upon the upper edge of said partition wall.

The length of the shields 13 is such that the lower ends thereof extend considerably beneath the openings 12 in the tank sections and partition wall so as to cause the solid matter entering the compartments of the tank to pass beneath the surface of the fluid level therein and sink to the bottoms of the

compartments at the same time permitting the proper flow of the fluid into and out of said compartments.

In actual practice, a base of concrete or other suitable hardening plastic material 16 is laid within the bottom of the ground opening and before the same hardens, the septic tank is forced therein as indicated in Figure 3 so as to provide a bottom wall for the tank.

It will thus be seen that I have provided a highly novel, simple, and efficient form of septic tank that is well adapted for all the purposes heretofore designated, and even though I have herein shown and described the invention as consisting of certain detail structural elements, it is nevertheless to be understood that some changes may be made therein without effecting the spirit and scope of the appended claims.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a septic tank of the class described, a pair of complementary half sections, laterally extending flanges formed on the vertical side edges of the sections, a vertical partition wall arranged between the sections, the edges of the partition being disposed between the inner opposed faces of the laterally extending flanges, securing means extending through the lateral flanges and the edges of the vertical partition wall, vertical tubes arranged over the lateral flanges of the sections and the edge portions of the partition wall for receiving a sealing material, said sections and the partition being formed with openings in the upper end portions, and shields arranged within the tank adjacent the openings for causing the material flowing into the compartments of the tank to pass downwardly therein.

2. In a septic tank of the class described, a pair of complementary half sections, laterally extending flanges formed on the vertical side edges of the sections, a vertical partition wall arranged between the sections, the edges of the partition being disposed between the inner opposed faces of the laterally extending flanges, securing means extending through the lateral flanges and the edges of the vertical partition wall, vertical tubes arranged over the lateral flanges of the sections and the edge portions of the partition wall for receiving a sealing material, said sections and the partition being formed with openings in the upper end portions, and shields arranged within the tank adjacent the openings for causing the material flowing into the compartment of the tank to pass downwardly therein, each of said shields being arcuate shaped in cross section and open at its respective ends, and hooks formed on the upper end of each shield for detachable engagement with the upper edge of the tank and partition wall respectively.

3. In a septic tank of the class described, a receptacle provided with inlet and outlet openings in the upper portion thereof, arcuate shaped shields open at their respective ends and adapted for disposition within the receptacle adjacent the inlet and outlet openings respectively for causing the material to flow downwardly into the receptacle, and hooks formed on the upper end of each shield for detachable engagement over the upper edge of the receptacle.

In testimony whereof I affix my signature.

ANDREW LEE HEPLER.