Oct. 20, 1942. C. E. MURPHY 2,299,647

EVEN TEMPERATURE WATER SUPPLY TANK

Filed Feb. 1, 1940 2 Sheets-Sheet 1

Fig. 1.

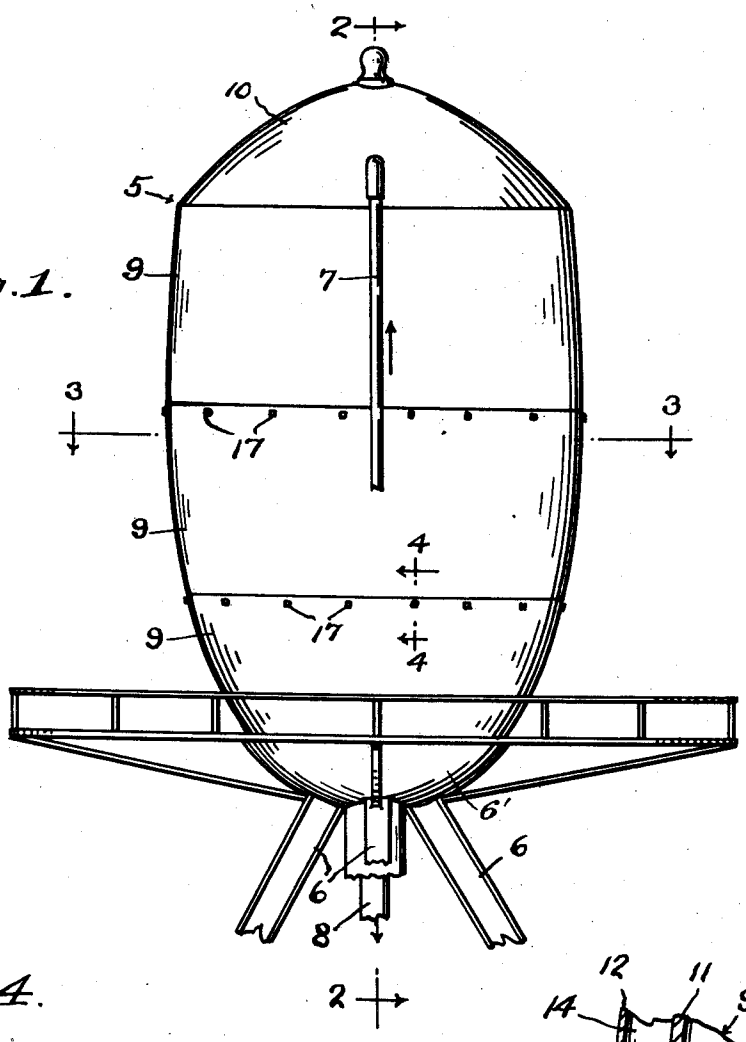


Fig. 4.

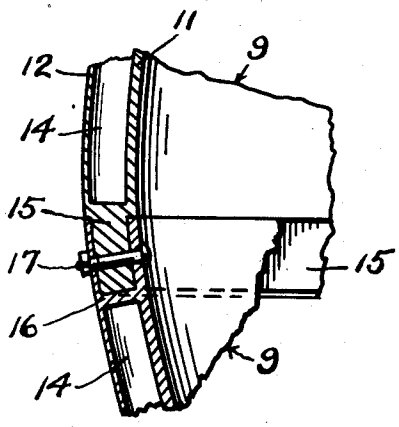
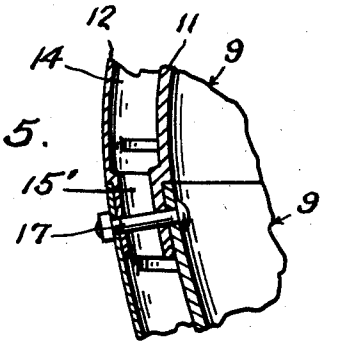


Fig. 5.



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Filed Feb. 1, 1940 2 Sheets-Sheet 2

Fig. 2.

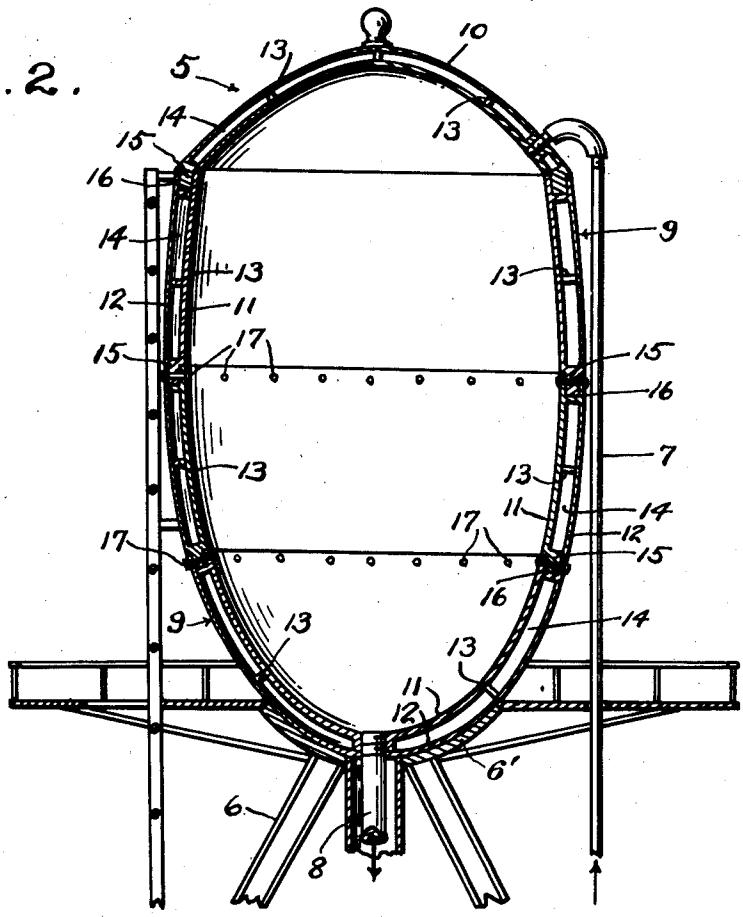
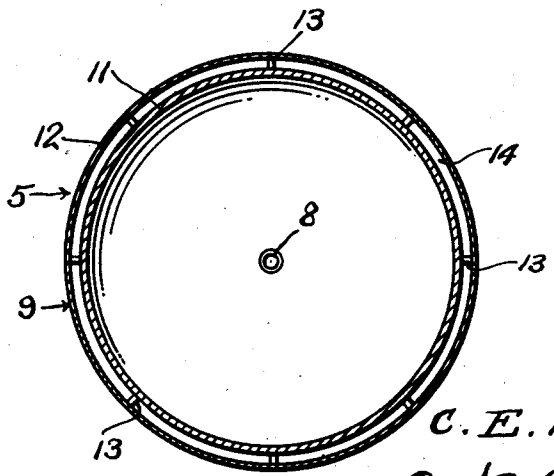


Fig. 3.



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2,299,647

EVEN TEMPERATURE WATER SUPPLY TANK

Charles Everett Murphy, Kingfisher, Okla.

Application February 1, 1940, Serial No. 316,818

1 Claim. (Cl. 220—1)

This invention relates to water distribution systems and more particularly water storage tanks for rural districts.

The primary object of this invention resides in the provision of a water storage tank for rural districts adapted to retain the water therein at an even temperature.

Another object of this invention resides in the particular construction of the water storage tank.

With these and other objects in view, this invention resides in certain novel features of construction and arrangement of elements to be hereinafter more particularly set forth in the specification, illustrated in the accompanying drawings, and pointed out in the appended claim and, while this disclosure depicts my present conception of the invention, the right is reserved to resort to such changes in construction and arrangement of elements as come within the scope of the claim.

In the accompanying drawings forming a part of this application:

Figure 1 is a side view of a water storage tank as constructed in accordance with this invention.

Figure 2 is a vertical sectional view thereof approximately on line 2—2 of Figure 1.

Figure 3 is a horizontal sectional view approximately on line 3—3 of Figure 1.

Figure 4 is an enlarged sectional view approximately on line 4—4 of Figure 1.

Fig. 5 is a detail section similar to that shown in Fig. 4 of a modified form of the joint between the tank sections.

The present illustration of this invention, the numeral 5 designates, in general, an elevated substantially egg-shaped water storage tank of that type used in rural water systems, supported on a tower 6 of any approved type having a substantially cup-shaped head 6' supported thereby, said tank, aside from being in communication with a water inlet conduit 7 and an insulated outlet conduit 8 is provided with the usual auxiliaries employed in water systems of said character, the same not being shown in the instant case as they form no patentable cooperation with the tank and are optional in constructing the system.

The tank 5 preferably consists of a plurality of sections 9 and a cover 10 and includes inner walls 11 of relatively thick material preferably of non-corrosive metal surrounded in spaced relation therewith by a jacket 12 of relatively thin material, such as metal or the like, said jacket is retained in spaced relation with the inner walls by cleats 13.

Each section has its ends closed to provide an air chamber 14 between its walls, opposite ends of each section being provided with an elongated annular flange 15 and groove 16 adapted to form a tight joint between sections when set up.

Passing through the flanges 15 and grooves 16 are fastening elements 17 and, in order to form water-tight joints between the sections and top, the sections and top are preferably welded together in the usual manner.

While the aforesaid sections 9 of the tank have their ends sealed to provide individual air-tight chambers, communicating passages 15' between abutting ends of the sections are provided as shown in Fig. 5 to form a continuous air space between the outer and inner walls of the tank.

With this invention fully set forth, it is manifest that a water storage tank, used in rural water systems, is provided whereby the water therein will be maintained at an even temperature and through the particular construction thereof, it can be manufactured cheaply and set up at no additional cost for labor.

Having fully described my invention, what I claim and desire to protect by Letters Patent is:

An elevated outdoor water storage tank formed of connected hollow sections into substantially egg-shaped configuration comprising, a tower including a substantially cup-shaped head receiving the lower end of the tank, a water inlet conduit communicating with the interior of the tank from a point in the top thereof, a water outlet conduit communicating with the tank at the lowermost point of its bottom, said tank resting on its smaller end in the cup-shaped head and said conduits retaining it in upright position therein, and an insulating pipe connected to the lower surface of the cup-shaped head surrounding the water outlet conduit.

CHARLES EVERETT MURPHY.