

Feb. 18, 1930.

J. F. PATTERSON

1,747,840

STORAGE TANK

Filed May 17, 1928

2 Sheets-Sheet 1

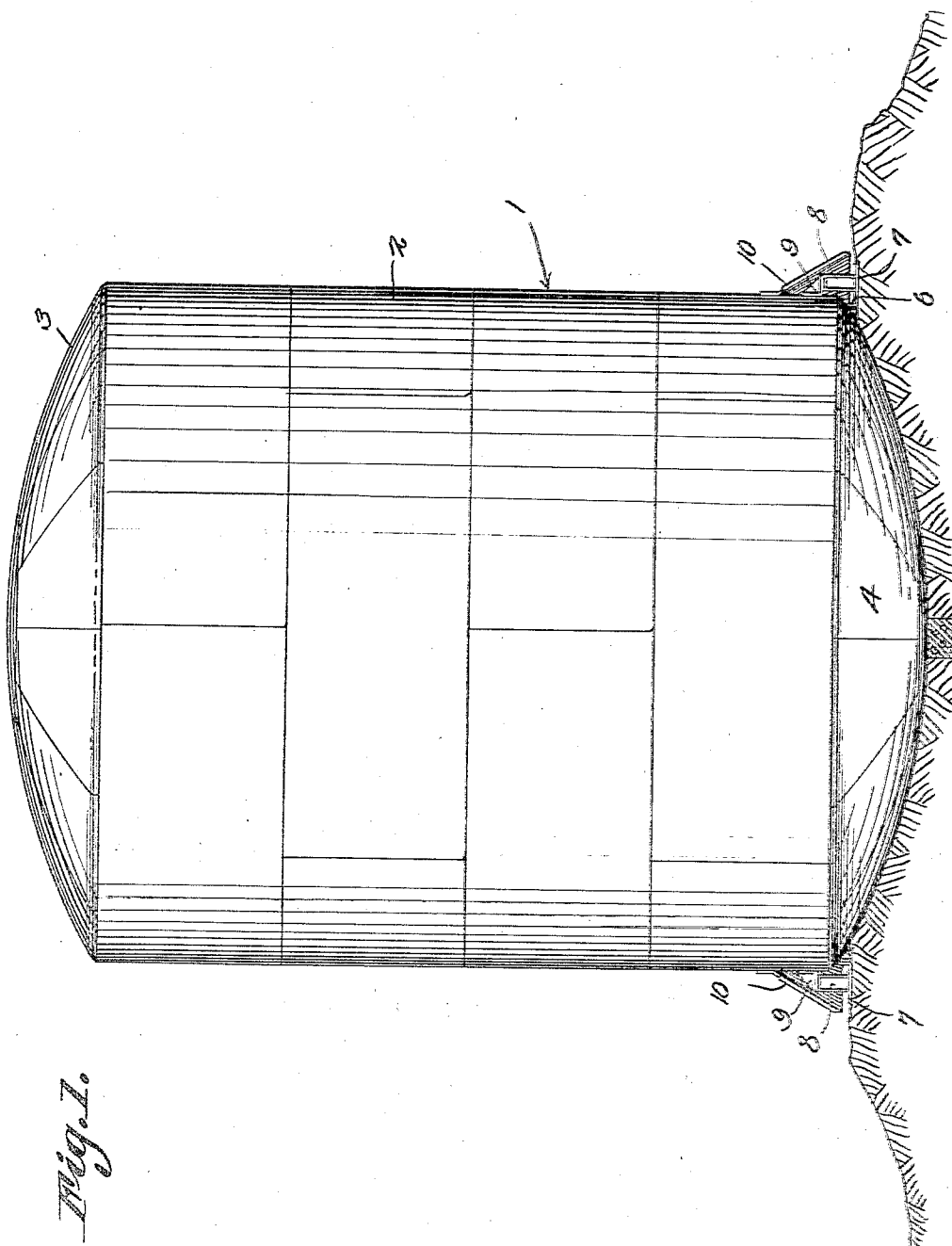


Fig. 1.

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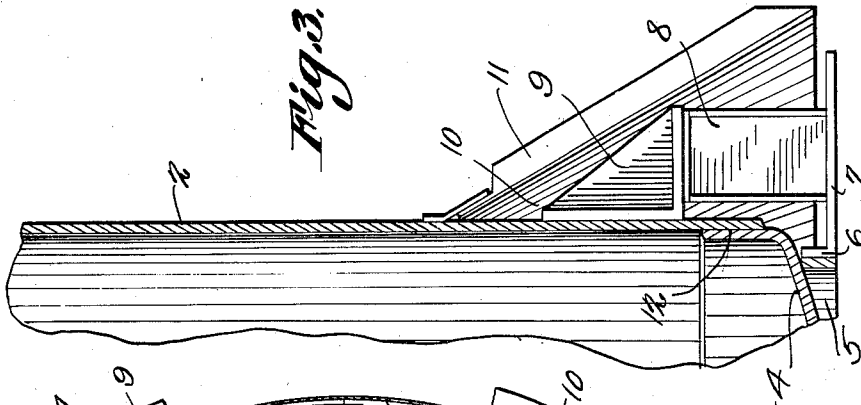
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UNITED STATES PATENT OFFICE

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STORAGE TANK

Application filed May 17, 1928. Serial No. 278,506.

The device forming the subject matter of this application is a tank adapted to hold oil, gasoline, and other volatile liquids. One object of the invention is to construct a tank which will be thoroughly effective in resisting an internal pressure, the fire risk being avoided or lowered accordingly. Another object of the invention is to provide novel means for mounting and supporting the tank at its lower end. A further object of the invention is so to construct the tank that the water which runs down the outside of it will not find its way into the foundation.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in elevation, a tank constructed in accordance with the invention, some parts being in section;

Figure 2 is a top plan of the structure shown in Figure 1, some parts being broken away;

Figure 3 is a fragmental longitudinal section.

The tank forming the subject matter of this application is made of metal, and is marked generally by the numeral 1. The tank includes a cylindrical shell 2 provided with a top 3 and a bottom 4 which are parts of a sphere the radius of which is equal to the diameter of the shell 2. Owing to this construction, the tank will be better adapted to withstand internal pressure than any other form of which I am aware, and the stability of the mounting of the tank on its foundation will be increased accordingly.

Below the bottom 4 of the tank 1 is located a ring 5. This ring aids in holding the earth

in place under the bottom of the tank, and the earth may be tamped in place there, within the ring, as tightly as desired, it being observed that, in Figure 1, there is a space within the ring within which the earth may be tamped as aforesaid. The ring 5 is secured to upstanding flanges 6 on the inner end of feet 7, in the form of plates of considerable area. The lower ends of posts 8 are secured to the feet 7. On the upper ends of the posts 8 rest outstanding brackets 9 which are secured to the shell 2 of the tank 1. A cowl 10 extends around the tank and is secured to the shell 2 of the tank. The cowl 10 is outwardly inclined and covers the brackets 9, the posts 8, and the feet 7, so that rain water running down the outside of the tank cannot find its way into the earth underneath the tank. No effort has been made to show pressure and vacuum valves, headers, ladders, and the like, since these details are common and well known. Owing to the fact that the feet 7, the posts 8, and the brackets 9 are provided, a considerable amount of strain, due to the load, is taken off the bottom 4. It is to be observed that, as shown at 11, the cowl or flashing 10, is made in sections, for convenient mounting. The posts 8, may be removed at any time, so as to permit the seam 12 between the shell 2 and the bottom 4 to be calked.

The general construction of this device is such that it does not require a concrete foundation. The structure is very economical to make and to maintain.

What is claimed is:—

1. A tank comprising a shell having outstanding brackets, a foundation ring disposed at the bottom of the tank and externally of the tank, posts on which the brackets rest, and means for securing the ring to the posts.

2. A tank comprising a shell having outstanding brackets, a ring disposed at the bottom of the tank, posts on which the brackets rest, means for connecting the ring to the posts, and an outstanding cowl on the tank covering the brackets and the posts.

3. In a device of the class described, a tank comprising a shell having outstanding brackets, posts on which the brackets rest,

supporting feet on the lower ends of the posts
and provided at their inner ends with up-
standing flanges, and a foundation ring
located at the lower end of the tank and se-
cured to the flanges, the ring being disposed
externally of the tank.

In testimony that I claim the foregoing as
my own, I have hereto affixed my signature.

JOHN FRANKLIN PATTERSON.

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