

L. LINDENBERG.
TANK.

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1,006,572.

Patented Oct. 24, 1911.

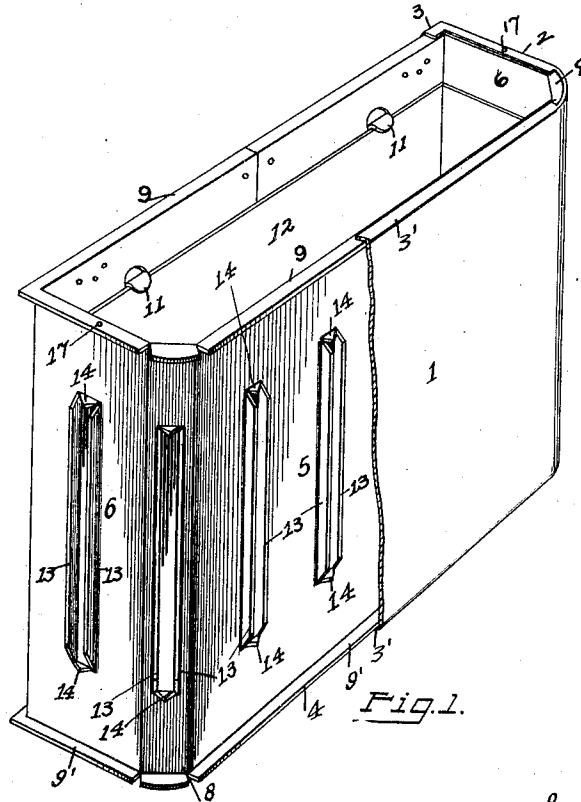


Fig. 1.

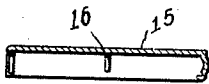


Fig. 2.

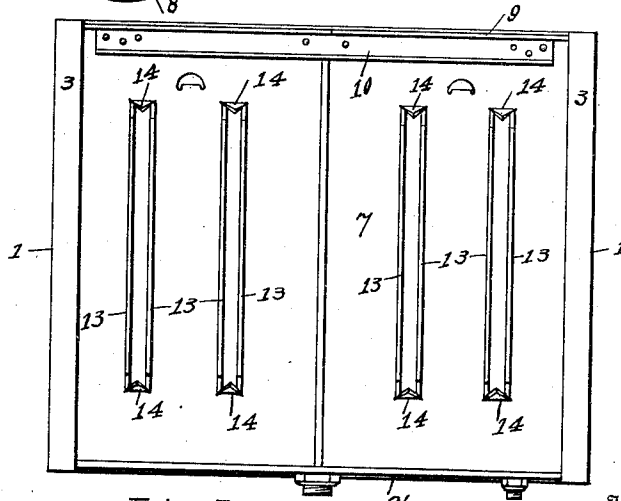


Fig. 3.

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TANK.

1,006,572.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LEO LINDENBERG, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Tanks, of which the following is a specification.

This invention relates to tanks, and has particular application to certain novel and useful improvements in metallic flushing tanks.

Heretofore in the construction of tanks of the type to which my invention relates, it has been the practice to form the metallic tank of an outside covering or casing, an intermediate casing or wall and a metallic lining of copper or other suitable material lying within the intermediate casing.

In order to brace the walls forming the tank, it has been the practice to place metallic strips, angle irons and the like, between the outer wall and the intermediate wall, in order to support the walls against the pressure of the water in the tank. Such a construction, however, is heavy, cumbersome and expensive.

In carrying out my invention, it is my purpose to so construct the tank as to obviate the employment of extra or supplemental brace bars and the like, the bracing members forming an integral part of the tank walls, so that while the walls are firmly and rigidly braced, the tank may be manufactured economically, while at the same time such tank will embrace the desired features of lightness, simplicity and durability.

With the above recited objects and others of a similar nature in view, my invention consists in the construction, combination and arrangement of parts set forth in and falling within scope of the appended claims.

In the drawings, like characters of reference indicate like parts in all the views.

In the accompanying drawings: Figure 1 is a perspective view of a tank embodying my improvements, a portion of the outer wall being broken away to show the construction of the inner wall, and the cover for the tank being omitted, Fig. 2 is a transverse sectional view through the cover of the tank, and Fig. 3 is a back view of the tank.

Referring now to the accompanying drawings in detail, the numeral 1 designates the outer wall or covering of the tank, which is

preferably formed of sheet metal, or other suitable material, the end portions 2 of the outer wall terminating in the vertical flanges 3, which extend around the rear or back wall of the intermediate casing 4, the covering also having top and bottom flanges 3'—3'. This intermediate casing is also preferably formed of sheet metal and comprises the front wall 5, the end walls 6 and the rear wall 7. At the points where the front wall joins the side walls, the casing wall is preferably rounded as shown at 8, the casing having top and bottom flanges 9 and 9' respectively, adapted to be engaged by the adjacent flanges of the covering. The rear wall 7 is also preferably provided adjacent to its top flange, with a longitudinal brace bar 10 in the form of an angle iron or other suitable construction. Said rear wall also has stamped therefrom the inwardly extending tongues 11 adapted to engage the edge of the tank lining 12, the latter being of copper or other suitable material.

In order to brace the walls of the tank, I depart from the usual practice of employing separate braces, and instead I stamp or cut from the walls of the casing, the longitudinal flanges 13—13 and the end lugs 14, so that I form integral with the casing and from the material of the body thereof, flanged bracing members, suitably spaced apart and extending outward to a point in contact with the inner face of the outer wall of the tank, or nearly so, whereby the walls of the tank will be thoroughly and effectively braced against the pressure of fluid within the same. It will be noted from the drawings, that the flanges and lugs stamped or cut from the body of the metal as shown, do not extend the entire height of the tank. However, I wish it to be understood, that the stamped or slotted portion may be of any suitable length and arranged in any preferred manner.

Referring to Fig. 2, the numeral 15 designates a portion of the covering of the tank, said cover having inwardly projecting pins 16 adapted to fit in the holes 17 in the top flange of the tank.

It will further be noted by reference to Fig. 2, that the outer wall of the tank does not extend completely around the back, but terminates in the flanges 3 embracing the ends of the rear wall 7 as heretofore de-

scribed, so that the longitudinal flanges 13 and the lugs 14 stamped from the rear wall 7 are exposed. Means are thus provided whereby, when the tank is placed against a wall, it is braced by the flanges and lugs.

What I claim, is—

1. A tank comprising a casing, a covering therefor, bracing flanges formed in pairs cut along median lines and bent to an angular position, and triangular struck-up portions between the ends of said pairs of flanges.

2. A tank comprising a casing having projections formed of the material of the casing and extending outward therefrom, an outer wall covering the front and sides of the casing, a lining arranged within the casing, and inwardly extending tongues

stamped from the rear wall of the casing and adapted to engage the edge of the lining. 20

3. A tank comprising a casing having top and bottom flanges, outwardly extending brace members formed from the material of the body portion of the casing, a covering for the front and sides of the casing and having top and bottom flanges engaging the flanges of the casing, a lining for the casing, an inwardly extending projection on the casing engaging with the lining. 25

In testimony whereof I affix my signature in presence of two witnesses. 30

LEO LINDENBERG.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."