W. H. PARTON.

WOOD TANK.

APPLICATION FILED JAN. 31, 1918.

1,306,616.

Patented June 10, 1919.

Fig. 1.

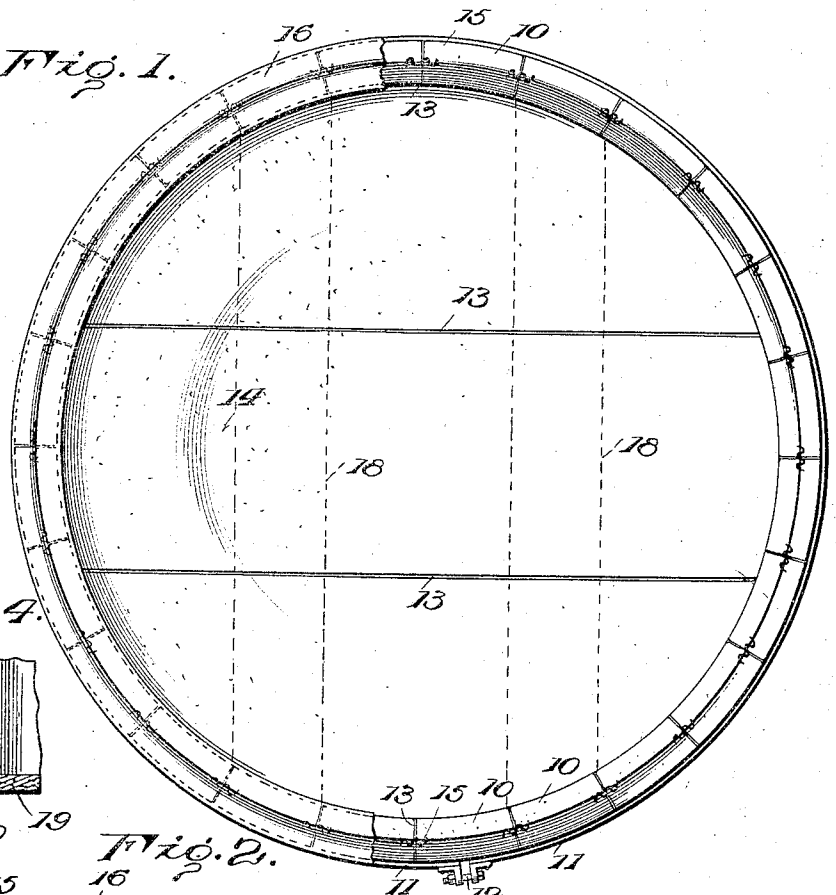


Fig. 4.

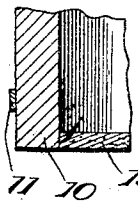


Fig. 2.

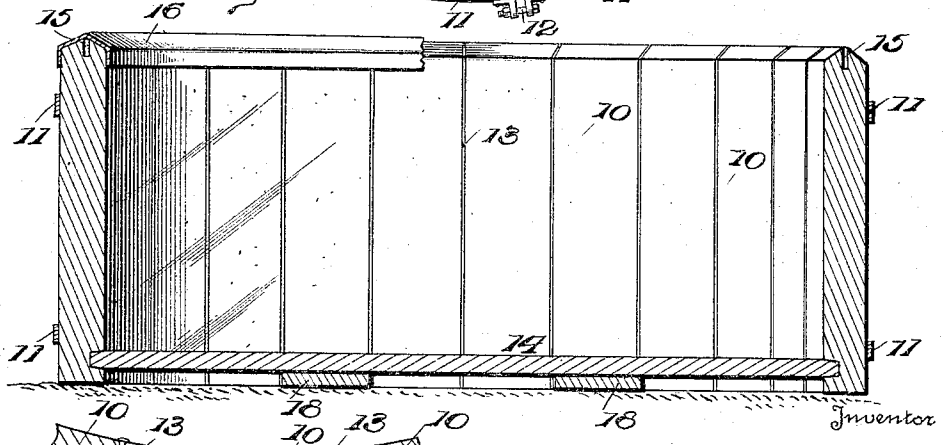
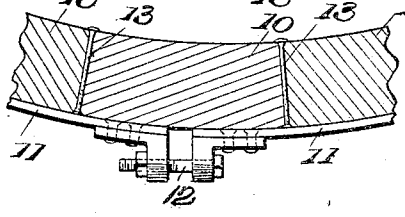


Fig. 3.



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WOOD TANK.

1,306,616. Specification of Letters Patent. Patented June 10, 1919.

Application filed January 31, 1918. Serial No. 214,700.

To all whom it may concern:

Be it known that I, WILLIAM H. PARTON, a citizen of the United States, residing at Lincoln, in the county of Lancaster and State of Nebraska, have invented certain new and useful Improvements in Wood Tanks, of which the following is a specification.

This invention relates to tanks or like receptacles for liquids, more particularly to tanks employed for stock watering and located upon the ground, and has for one of its objects to provide a device of this character having its walls and bottom impregnated with a preserving composition to resist decay or the ravages of destructive insects.

Another object of the invention is to provide a device of this character including vertical walls resting upon a water-tight base or foundation, the walls being impregnated with a preserving composition.

Another object of the invention is to provide a device of this character with its walls formed of a plurality of staves impregnated with a preserving composition and having liquid resisting material between their confronting edges, and with binding means to hold the staves and the liquid resisting material in contact.

Another object of the invention is to provide a device of this character with its walls formed of a plurality of staves impregnated with a preserving composition and having liquid resisting material between the edges, and with anchor devices uniting the staves.

With these and other objects in view, the invention consists in centain novel features of construction, as hereinafter shown and described and then specifically pointed out in the claim; and in the drawings illustrative of the preferred embodiment of the invention—

Figure 1 is a plan view of the improved device with a portion of the annular cover removed.

Fig. 2 is a transverse section of Fig. 1.

Fig. 3 is an enlarged sectional detail illustrating the construction.

Fig. 4 is a sectional detail illustrating a modification in the construction.

The improved device may be constructed of any size or capacity and includes side walls formed of a plurality of staves 10 and a bottom of a plurality of sections 14 of wood impregnated with a preservative compound such as creosote or the like.

The bottom 14 bears at its edges in an annular channel in the staves 10 and is further supported by cross braces 18. The tank walls rest upon the ground and are held in place by a plurality of encircling binding elements 11 having draw bolts 12 at their terminals. Disposed between the staves 10 and bottom sections 14 are packings of water resisting material preferably a rubber or rubber-like compound or the like and represented at 13, and when strain is applied to the binder members 11 by actuating the draw bolts 12, the staves will be compressed against the packing and held in place thereby and the joints between the staves and bottom sections rendered water-tight.

In Fig. 4 a slight modification in the construction is shown consisting in dispensing with the wood bottom members 14—18 and substituting a bottom consisting of a layer of cement of suitable composition, represented at 19, and poured upon the ground within the walls and pounded or otherwise treated to render it impervious to moisture.

Binding or connecting devices 15 are employed at the upper ends of the staves, to reinforce them, and assist in holding the staves in position, and to resist any tendency to force the staves inwardly by outside pressure from any cause. The anchor devices are preferably formed of sections of corrugated plate metal galvanized or otherwise protected from corrosion.

The yieldable packing strips 13 preferably conform to the shape of the staves and are coextensive therewith, the inner edges of said packing strips being cut-away or notched to accommodate the peripheral edge of the bottom of the tank as shown.

The upper ends of the staves are also preferably provided with a cover, represented at 16, having downwardly directed edges 17 which bear over the adjacent side faces of the staves, as shown.

The cover member will be of any suitable moisture resisting substance or material and arranged in a plurality of layers or sheets.

Having thus described the invention, what is claimed as new is:

A receptacle having an open top and including a plurality of straight vertical staves arranged edge to edge in substantially circular form and having their upper ends in-

clined in opposite directions from the medial line thereof and their lower ends flat, a substantially circular bottom section spaced upwardly from the flat lower ends of the staves and fitting in a channel formed directly in the inner faces of said staves, yieldable packing strips interposed between the staves and of the same size as and conforming to the shape of said staves and having their inner edges notched to accommodate the bottom section, said packing strips being solid throughout their entire area and extended continuously from the inner to the outer face of the receptacle, binding elements embedded in the upper ends of the staves at the junction of the inclined faces thereof and connecting adjacent staves, and a cover of impervious material extending around the upper edge of the receptacle and having oppositely disposed depending flanges engaging the inner and outer faces of the receptacle and the adjacent edges of the packing strips, said cover forming a housing for the upper ends of the staves and packing strips and serving to prevent vertical displacement of the binding elements.

In testimony whereof I affix my signature.

WILLIAM H. PARTON. [L. S.]

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