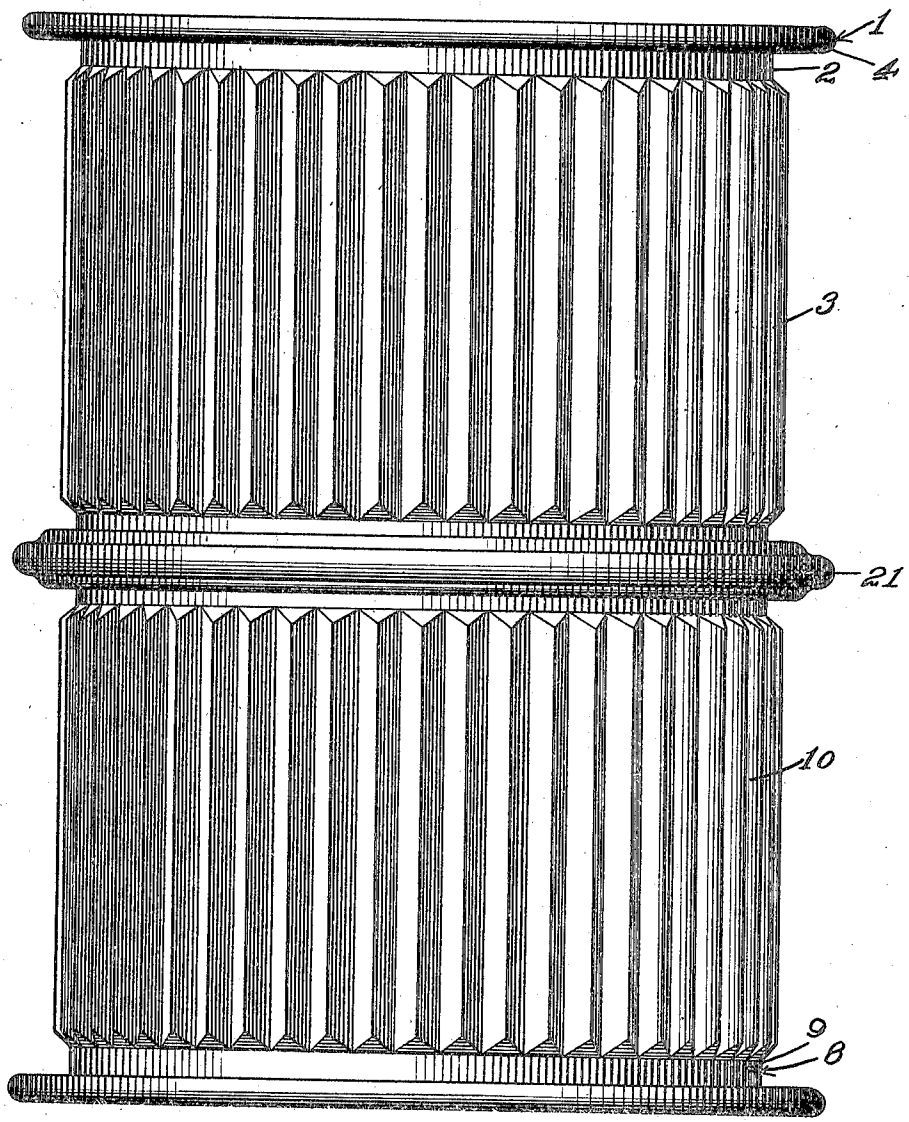
Jan. 23, 1923.

1,443,060

G. A. TRACHTE ET AL.
TANK.
FILED OCT. 6, 1921.

2 SHEETS-SHEET 1

Fig. 1.



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2 SHEETS-SHEET 2

Fig. 2.

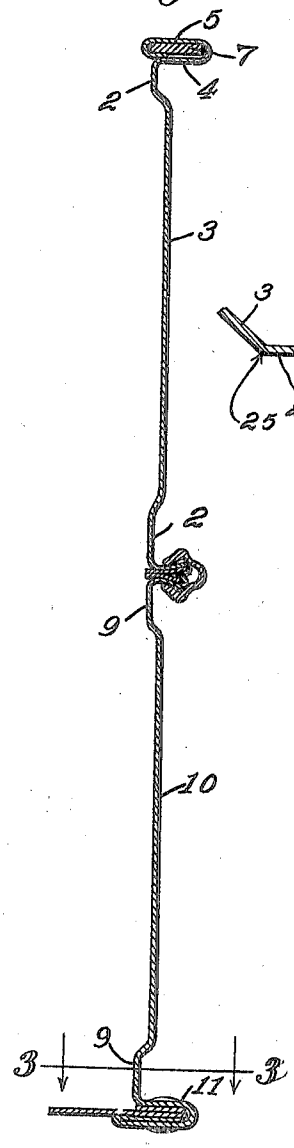


Fig. 4

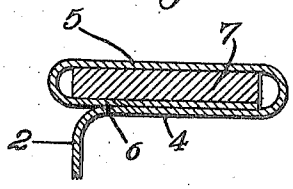


Fig. 7.

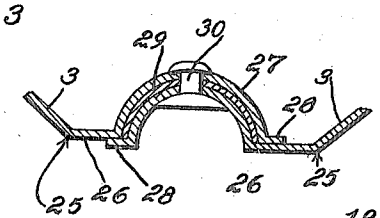


Fig. 5.

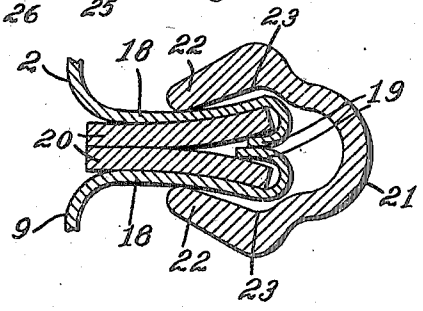


Fig. 3.

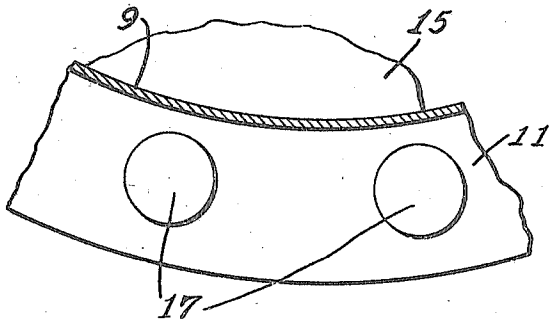
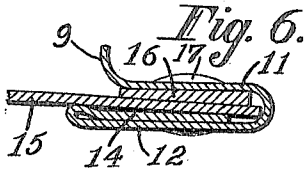


Fig. 6.



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Attorney

Patented Jan. 23, 1923. 1,443,060

UNITED STATES PATENT OFFICE.

GEORGE A. TRACHTE AND ARTHUR F. TRACHTE, OF MADISON, WISCONSIN.

TANK.

Application filed October 6, 1921. Serial No. 505,810.

To all whom it may concern:

Be it known that we, GEORGE A. TRACHTE, and ARTHUR F. TRACHTE, citizens of the United States, residing at Madison, in the county of Dane, State of Wisconsin, have invented a new and useful Improvement in Tanks, of which the following is a specification.

The device forming the subject matter of this application is a tank, and one object of the invention is to provide novel means for reinforcing and strengthening the upper end of the tank. Another object of the invention is to provide novel means for assembling the bottom of the tank with the side wall thereof. A further object of the invention is to provide a novel joint between the constituent members of the tank.

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, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in elevation, a device constructed in accordance with the invention; Figure 2 is a longitudinal section; Figure 3 is a section on the line 3—3 of Figure 2; Figure 4 is a detail enlarged from Figure 2 and showing the construction at the upper end of the tank; Figure 5 is a sectional detail enlarged from Figure 2 and showing the joint in the intermediate portion of the tank; Fig. 6 is a fragmentary vertical section; and Figure 7 is a fragmental transverse section.

The tank forming the subject matter of this application preferably is made of metal and includes an upper member 1 comprising a side wall 2 having longitudinal corrugations 3. The side wall 2 is provided at its upper end with an outwardly extended annular flange 4 merging into an inwardly prolonged extension 5 having an underlying lip 6 resting on the flange 4. The parts 4, 5 and 6 define a bead within which is disposed a reinforcing element 7 ordinarily in the form of a metal strip or ring. The tank embodies a lower member 8 comprising a side wall 9 having longitudinal corrugations 10. At its lower end, the side wall 9 is supplied with an outwardly extended annular flange 11 merging into an inwardly prolonged extension 12, the extension 12 being bent upon itself to form an overlying annular lip 14. The bottom 15 of the tank is supported on the lip 14 a packing ring 16 being disposed between the bottom 15 and the flange 11. Securing elements 17, such as rivets, pass through the flange 11, the packing 16, the bottom 15, the lip 14 and the extension 12 of the flange 11. It is obvious that the construction last above described affords both a liquid tight joint and a simple means for holding the bottom 15 in place.

The lower end of the side wall 2 of the upper member 1 and the upper end of the side wall 9 of the lower member 8 are extended outwardly to form annular flanges 18 having inwardly extended lips 19. Packing rings 20 of any suitable resilient material engage the inner surfaces of the flanges 18 and extend into the lips 19. A clamp 21 which is trough-shaped in cross section, is provided, the clamp 21 being in the form of a ring, or in any desired number of sections, the clamp, in any event, preferably extending entirely around the tank. The clamp 21, which is made of metal, includes converging jaws 22 bearing on the flanges 18 and pressing the packings 20 together, the lips 19 being pressed tightly together as well. The flanges 18 diverge as they extend outwardly and, therefore, the jaws 22 of the clamp are recessed, as shown at 23, to receive the outer edges of the flanges 18. The structure above described, and clearly shown in Figure 5 will afford a liquid tight joint between the upper and lower sections of the tank.

Although the tank has been shown as comprising two sections only, it will be understood that the tank may be made in as many sections as is found expedient, the structure shown in Figure 5 being duplicated accordingly. Either the upper member 1 or the lower member 8 may be made up of any desired number of sections 25, considered circumferentially, the longitudinal edge of each section being provided with a flange 26 connected with a trough-shaped bead 27, the bead 27 terminating in a lip 28. One trough-shaped bead 27 is re-

ceived within the other, the lip 28 cooperating with the flange 26, and a packing 29 being interposed between the beads. The beads 27 may be connected by securing elements 30 passing through the packing 29, as shown in Figure 7.

What is claimed is:

1. In a tank, cooperating wall-forming members having outwardly extended flanges provided with inwardly extended lips; packings between the flanges and having their outer edges engaged between the lips and the flanges; and a clamp engaging the outer surfaces of the flanges.

2. In a device of the class described, cooperating wall forming members having outwardly extended flanges provided with inwardly extended lips; packings between the flanges and having their outer edges received between the flanges and the lips; and a U-shaped clamp engaging the outer surfaces of the flanges, the flanges diverging toward their outer edges and the clamp being recessed to receive the outer edges of the flanges.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

GEO. A. TRACHTE.
ARTHUR F. TRACHTE.

Witnesses:
J. J. McMANAMY,
LAURENCE WALTHER.