

No. 889,793.

PATENTED JUNE 2, 1908.

A. A. KRAMER.

TANK.

APPLICATION FILED APR. 22, 1907.

Fig. 1.

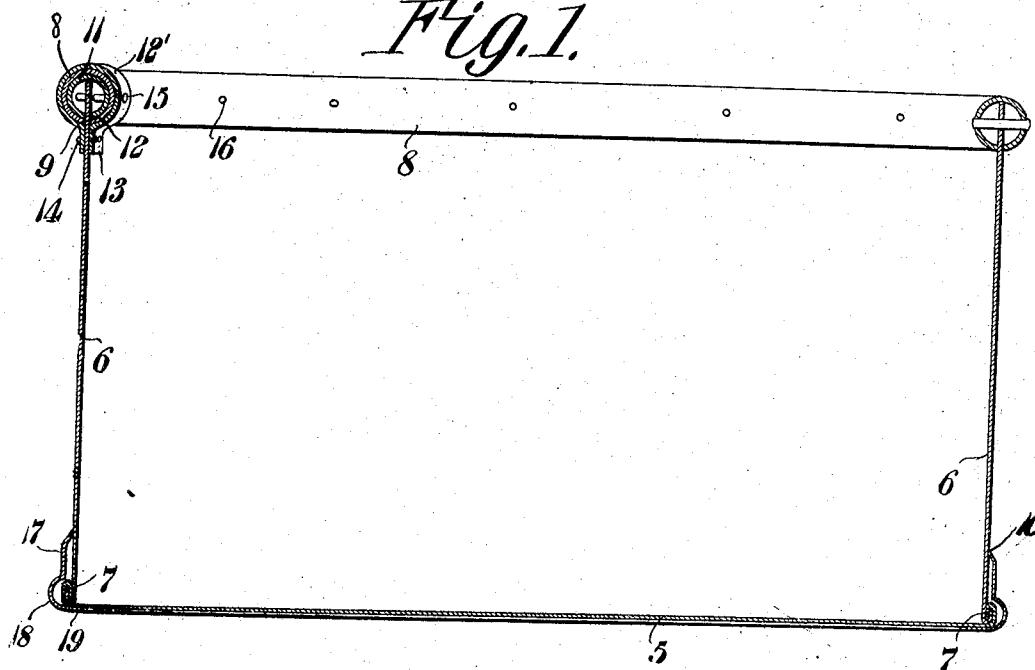
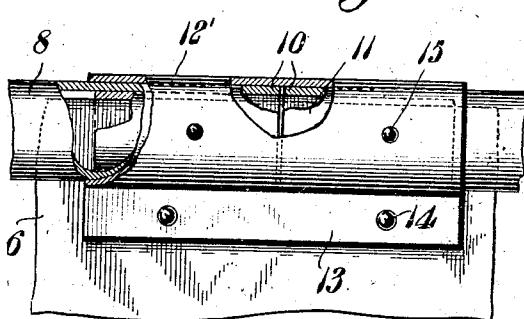


Fig. 2.



WITNESSES:

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ANDREW A. KRAMER, OF KANSAS CITY, MISSOURI.

TANK.

No. 889,793.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed April 22, 1907. Serial No. 369,609.

To all whom it may concern:

Be it known that I, ANDREW A. KRAMER, a citizen of the United States, residing at Kansas City, in the county of Jackson and 5 State of Missouri, have invented a new and useful Tank, of which the following is a specification.

This invention relates to sheet metal tanks and has for its object to reinforce and 10 strengthen the tank by forming the vertical walls thereof with a terminal circumferential tube or bead which not only increases the rigidity of said walls but also forms a smooth bearing surface for the upper or free edge of 15 the tank.

A still further object of the invention is to generally improve this class of devices so as to increase their utility, durability and efficiency.

20 Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the 25 appended claims.

In the accompanying drawings forming a part of this specification: Figure 1 is a vertical sectional view of a tank constructed in accordance with my invention. Fig. 2 is a 30 side elevation partly in section of a portion of the upper part of the tank.

Similar numerals of reference indicate corresponding parts in all of the figures of the drawings.

35 The improved tank forming the subject matter of the present invention is preferably cylindrical in shape and formed of sheet metal or other suitable material, said tank having an imperforate bottom 5 and vertically disposed side walls 6 connected with the bottom 5 by a lap joint 7.

Secured to the upper or free edge of the vertical walls 6 is a circumferential reinforcing tube or bead 8 having a recess 9 formed 45 in the bottom thereof and adapted to receive the adjacent edge of the tank thereby to reinforce and strengthen the walls of the tank and also form a smooth bearing surface at the upper edge of the latter.

50 Disposed within the tube 8 at the meeting ends 10 is a sleeve or collar 11 also provided with a slot 12 for the reception of the upper edge of the tank, said sleeve or coupling member being so arranged as to overlap the 55 ends 10 of the tube 8 and thus form a rigid connection between the same.

Embracing the exterior walls of the tube 8 at the meeting ends 10 thereof is a clamping member 12' preferably formed of a single piece of metal the lower longitudinal edges 60 of which are bent inwardly to form attaching flanges 13 which bear against the interior and exterior faces of the adjacent vertical walls 6 and are secured thereto in any suitable manner, as by bolts, rivets or similar 65 fastening devices 14.

The clamping member 12' is further secured in position on the split tube 8 by means of transverse bolts or rivets 15 which extend through the clamping member 12' 70 and coupling member 11 and also pierce the adjacent portion of the vertical wall 6, there being similar bolts or fastening devices 16 disposed at spaced intervals around the split tube and extending transversely through 75 the same and through the walls of the tank thereby to securely fasten the split tube in position on the top of the tank.

Soldered, riveted or otherwise rigidly secured to the lower portion of the tank is a 80 reinforcing band or hoop 17 provided with a lateral offset portion 18 which forms a casing or housing for the connection between the bottom and side walls of the tank so as to prevent injury to the latter. One edge of 85 the band or hoop is bent in engagement with the side walls of the tank to produce an inclined shoulder 16' while the opposite edge thereof is extended laterally beneath the bottom of the tank to form a reinforcing ring 90 19 which also serves to receive and sustain the weight of the tank and prevent undue wear on the bottom thereof.

Having thus described the invention what 95 is claimed is:

1. A tank having its upper edge reinforced by a split tube, a coupling member engaging the interior walls of the tube at the abutting ends thereof, and a clamping member embracing the exterior walls of the tube and 100 having its opposite longitudinal edges spaced apart and secured to the interior and exterior walls of the tank.

2. A tank having its upper edge reinforced by a split tube, a coupling member engaging 105 the interior walls of the tube at the abutting ends thereof, a clamping member embracing the exterior of the tube and having its adjacent ends bent laterally to form attaching flanges for engagement with the interior and exterior walls of the tank, respectively, and fastening devices piercing said flanges. 110

3. A tank having its upper edge reinforced by a split tube, a tubular coupling member engaging the interior walls of the tube at the abutting ends thereof and provided with a longitudinal slot for the reception of the vertical wall of the tank, a clamping member embracing the exterior of the tube and fastened to the adjacent walls of the tank, and fastening devices extending through the

clamping and coupling members and piercing the vertical wall of the tank.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ANDREW A. KRAMER.

Witnesses:

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