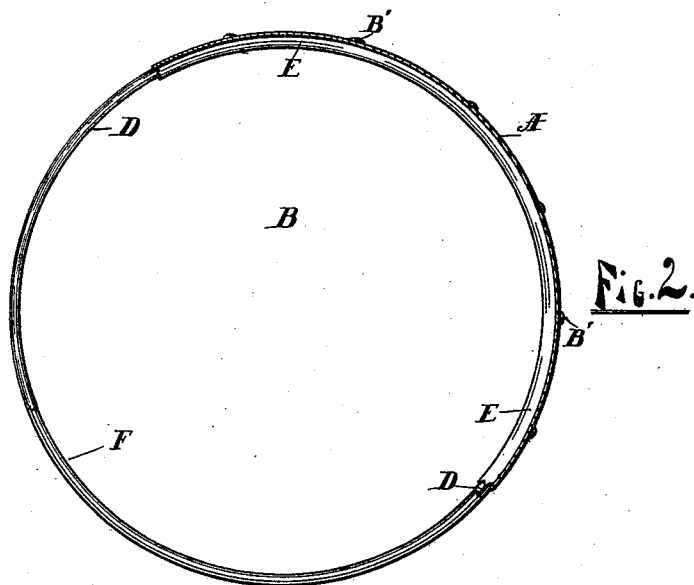
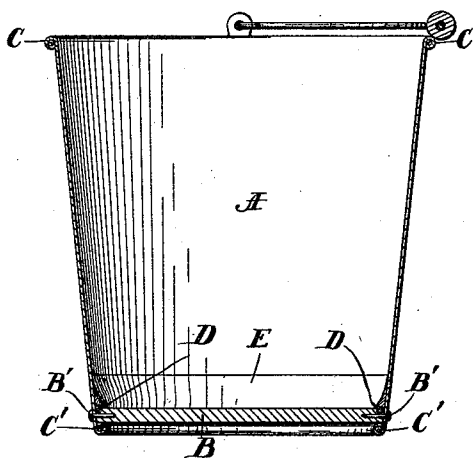


(No Model.)

A. W. BALLOU.
VESSEL FOR HOLDING LIQUIDS.

No. 539,566.

Patented May 21, 1895.



WITNESSES:

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SPECIFICATION forming part of Letters Patent No. 539,566, dated May 21, 1895.

Application filed October 24, 1894. Serial No. 526,998. (No model.)

To all whom it may concern:

Be it known that I, ASA W. BALLOU, a citizen of the United States, residing at Bailey, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Vessels for Holding Liquids; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in vessels for holding liquids, more particularly to improvements in the construction of such vessels.

My object is to provide in a vessel for holding liquids means for securing a wooden bottom or head to a metallic body, in such manner as to form a tight joint between said body and bottom, and my invention consists in the construction, combination and arrangement of the various parts hereinafter described and more particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 represents a vertical section of a device embodying my invention; and Fig. 2, a plan view in section, upon an enlarged scale, with portions broken away to show details.

Like letters refer to like parts in both of the figures.

A represents the body of the vessel, preferably of sheet metal, wired at the top C on the outside, in the usual manner, and at the bottom C' upon the inside, forming a seat for the bottom or head and strengthening the edge. The wooden bottom B formed to fit closely within the inside of the lower portion of the body rests upon this seat, and is secured by nails B'. On the upper face of the bottom near the edge is the groove F, in which is laid the wire D, of a diameter slightly greater than the diameter of the groove, whereby the wire being forced into the groove fits very tight and forms a joint impervious to liquids between the wire and bottom. The space between the wire and body is filled by solder E, which adhering both to the body and wire cements the latter securely to the former and thus renders the vessel water tight protecting the edges of the bottom or head from the liquid and also filling the angle whereby the vessel is more easy to be cleaned and rendered less likely to rust.

By this construction I am enabled to provide a vessel having sheet metal sides and a wooden bottom.

Wood and metal cannot be soldered together as the solder will burn the wood and will not adhere to the same, but by using the wire as shown and described, I am enabled to make a tight joint and connect the parts by the use of solder.

Other substances may be used for said bottom, but I prefer wood which may be treated in such a manner that it will not shrink, or swell, and by spreading the solder well up the sides of the vessel, I get a light, durable, and non-rusting article.

What I claim is—

1. In combination with the sheet metal body, having its lower edge wired upon the inside to form a seat for the bottom, a bottom having a groove in the upper sides and resting on said seat and a wire in said groove soldered to said body, substantially as described.
2. In combination with the sheet metal body, having its lower edge wired upon the inside to form a seat for the bottom, a wooden bottom having a groove in its upper side and resting upon said seat, and a wire of greater diameter than the diameter of said groove and pressed into said groove to form a tight joint between said bottom and wire, and secured to said body by solder, substantially as set forth.

3. In a vessel for holding liquids, the means for securing a wooden bottom to a metallic body, consisting of forming a groove in said wooden bottom, extending around the circumference thereof inserting a wire in said groove, to form a tight joint and soldering said wire throughout its length to said body, substantially as described.

4. In a vessel for holding liquids, the combination of a sheet metal body, a wooden bottom for the same having a groove in its inner side near its edge and extending entirely around its circumference, a wire filling said groove and solder connecting said wire throughout its length to said body, substantially as described.

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

ASA W. BALLOU.

Witnesses:

FRANK P. MCGRAW,
LEWIS E. FLANDERS.