No. 749,319. PATENTED JAN. 12, 1904.

J. R. McLAUGHLIN.

SHEET METAL VESSEL.

APPLICATION FILED SEPT. 16, 1903.

NO MODEL.

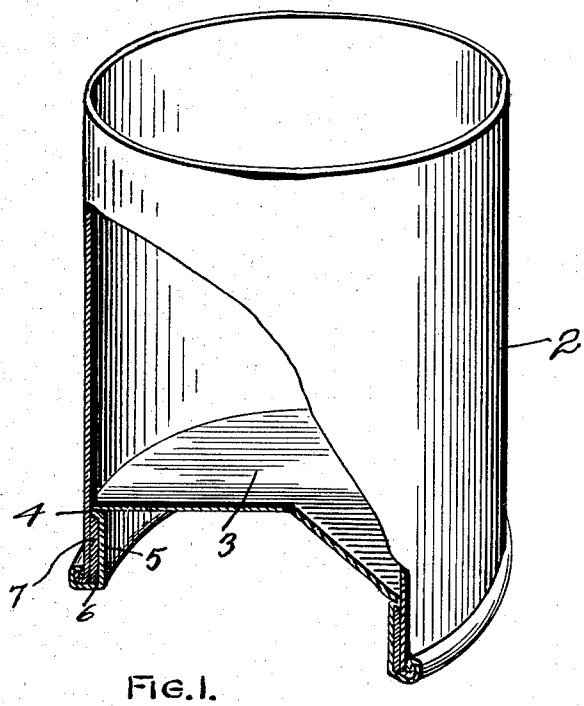


FIG. 1.

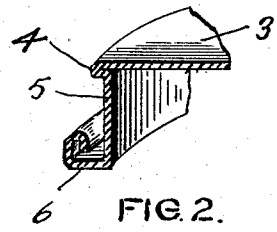


FIG. 2.

WITNESSES
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No. 749,319. Patented January 12, 1904.

UNITED STATES PATENT OFFICE.

JAMES R. McLAUGHLIN, OF CANANDAIGUA, NEW YORK.

SHEET-METAL VESSEL.

SPECIFICATION forming part of Letters Patent No. 749,319, dated January 12, 1904.

Application filed September 16, 1903. Serial No. 173,369. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. McLAUGHLIN, of Canandaigua, county of Ontario, State of New York, have invented certain new and useful Improvements in Sheet-Metal Vessels, of which the following is a specification.

My invention relates to means for strengthening or reinforcing the bottom of sheet-metal vessels; and the object of the invention is to provide a reinforcing means that will be entirely concealed, both on the inside and the outside of the vessel, thereby causing the bottom of the vessel to present a neater more finished appearance than usual in reinforced articles of this kind.

A further object is to provide a cheaper method of fastening the ring than is usually employed and one that will dispense entirely with the use of bolts or rivets.

The invention consists generally in a ring or hoop interposed between the vessel-bottom and side walls and wholly concealed thereby.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective of a sheet-metal vessel embodying my invention. Fig. 2 is a detail perspective view showing the construction of the vessel-bottom.

In the drawings, 2 represents the walls of the vessel, which may be a milk or cream can or an ash or garbage pail or any other style of metal receptacle that it is desirable to strengthen or reinforce at the bottom.

3 is a vessel-bottom having an inwardly-turned edge and a depending flange 5, forming a peripheral lip or shoulder 4, that is outside the circumference of the flange 5 and is soldered to the inside of the vessel and forms a liquid-tight joint therewith. The lower portion 6 of the flange 5 is bent horizontally out under the wall 3 of the vessel and double-seamed with the correspondingly-turned edge thereof and forms a flat substantial lower end for the vessel.

To reinforce and brace the walls of the vessel below the bottom 3, I provide a hoop or ring 7, preferably of flat black iron, inserted into the space between the wall of the vessel and the flange 5 and concealed at the bottom by the part 6 and at the top by the lip 4. The bottom 3 being shaped with the lip and depending flange thereon, the ring 7 is slipped over the flange, which upon being bent outwardly at the bottom will securely lock the ring in place without the use of bolts or rivets before the bottom has been fitted into the vessel.

When the bottom has been seamed in the vessel, the ring will lie snugly, held between the lip 4 and the outwardly-turned part 6, but otherwise unsecured, with its lower edge substantially flush with the corresponding edge of the vessel-wall and its upper edge bearing upon the peripheral lip and entirely concealed and protected from dirt and corrosion on the outside as well as the inside of the vessel. I am thus able to use a rough unfinished iron ring without detracting from the appearance of the vessel, and I also dispense with the use of rivets, thereby reducing materially the cost of manufacture.

The peripheral lip being securely soldered to the wall of the vessel and the flange bent under and double-seamed with the lower edge of the wall will hold the bottom firmly in place and with the interlocked ring will form a rigid substantial base for the vessel.

I claim as my invention—

1. An article of manufacture, comprising a vessel having a bottom provided with a peripheral lip secured to the wall of the vessel on the inside and a depending flange included by the circumference of said lip, the lower portion of said flange being outwardly turned and double-seamed with the corresponding portion of said vessel-wall, and a reinforcing ring or hoop inserted between said wall and bottom and entirely concealed on the outside and inside of the vessel.

2. An article of manufacture, comprising a body portion, a bottom having an inwardly and downwardly turned part forming a peripheral lip or rib, the lower edge of said downwardly-turned part being outwardly turned and secured to the corresponding edge of said body portion, and a hoop or ring locked between said lip and said outwardly-turned edge and entirely concealed, substantially as described.

3. An article of manufacture, comprising a

vessel-body, a bottom having an inwardly and downwardly turned part forming a peripheral lip or rib, the lower edge of said downwardly-turned part being outwardly turned and secured to the corresponding edge of said vessel-body, and a reinforcing hoop or ring locked between said lip and said outwardly-turned edge, but otherwise unsecured.

4. An article of manufacture, comprising a body portion, a bottom provided with a peripheral lip and a depending flange included by the circumference of said lip, said lip being secured to said body portion on the inside, and the lower edge of said downwardly-turned part being outwardly turned and double-seamed to the corresponding edge of said body portion, and a hoop or ring interposed between said body portion and said downwardly-turned part and having its upper edge bearing upon said lip and its lower edge substantially flush with the corresponding edge of said body portion.

In witness whereof I have hereunto set my hand this 4th day of September, 1903.

JAMES R. McLAUGHLIN.

In presence of—

J. S. HOYT,

C. A. GEORGE.