

J. SOLTER.  
SHEET-METAL CUP.

No. 175,188.

Patented March 21, 1876.

Fig. 1.

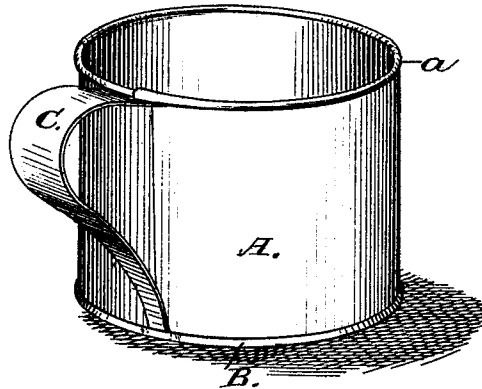


Fig. 3.

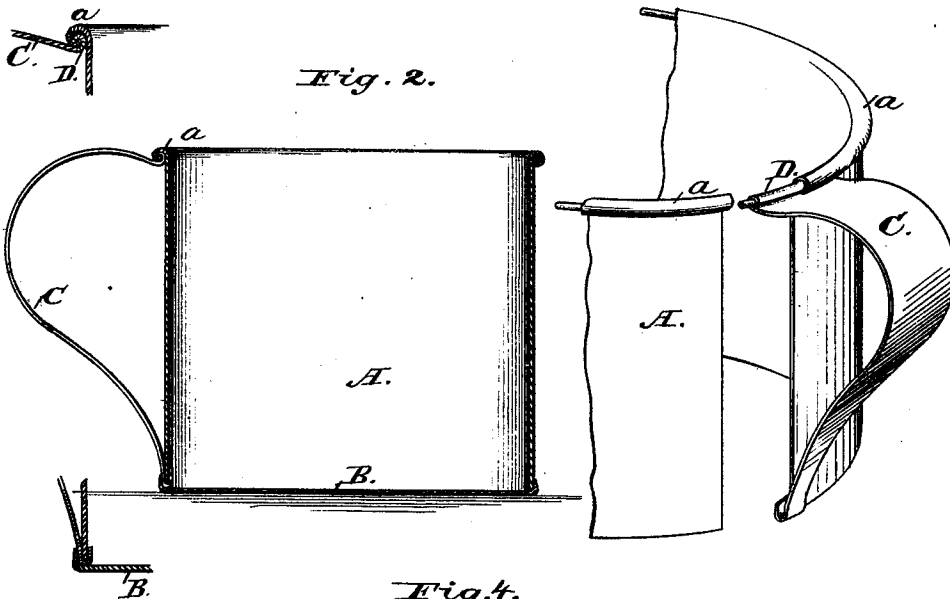
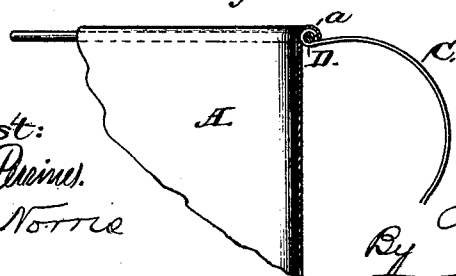


Fig. 4.



Attest:  
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# UNITED STATES PATENT OFFICE.

JOHN SOLTER, OF BALTIMORE, MARYLAND, ASSIGNOR TO KEEN & HAGERTY, OF SAME PLACE.

## IMPROVEMENT IN SHEET-METAL CUPS.

Specification forming part of Letters Patent No. 175,188, dated March 21, 1876; application filed February 8, 1876.

### *To all whom it may concern:*

Be it known that I, JOHN SOLTER, of Baltimore, in the county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Sheet-Metal Vessels or Utensils, of which the following is a specification:

This invention relates to certain improvements in the construction of all kinds of sheet-metal vessels or utensils of that class provided with a handle or handles, and a wired edge or hollow rim around the mouth. The handles in such vessels or utensils have usually been attached to the body of the same by means of rivets or by soldering, but, as thus constructed, have been found wanting in strength and durability, owing to the weakening of the metal when punched for the insertion of rivets, and the want of proper cohesion at the joints when solder alone is employed to attach the handles. Besides, the rivets form a considerable item of expense in the construction of such vessels, which is considerably enhanced by the labor and trouble of inserting the same in securing the handles to the vessel or utensil.

My invention is designed to obviate these objections, and produce a cheaper, stronger, and more durable vessel or utensil than heretofore; and it consists in providing such vessels or utensils with a handle having its upper end turned into a hollow edge or wire, and secured around the wire at the rim of the vessel or utensil, and setting under the turned-down metal of the same, or, when the wire is dispensed with, setting and secured under the metal of the turned-down rim, and having its lower end crimped in between the lower edge of the body of the vessel and its bottom.

In the drawing, Figure 1 represents a perspective view of a vessel constructed according to my invention; Fig. 2, a vertical section through the handle and portions of the cup to which it is attached; Fig. 3, a perspective view of the vessel and handle, showing the parts in condition to be united; and Fig. 4 represents a view of a vessel or utensil in which a wire is secured in the turned-down rim at the mouth.

In the present instance I have represented my invention as applied to the construction of the ordinary cups of tinned sheet metal,

although it is evident that it may be applied to any other similar vessel or utensil.

The letter A represents a cylinder, of suitable size, and, in the present instance, is formed of the ordinary tinned sheet-iron, with the upper edge turned over by means of proper machinery into a hollow rim or wire, *a*. B represents the bottom, constructed of a disk of sheet metal, in the ordinary manner, with the usual upturned edge, by means of which it may be secured to the cylinder A. C represents the handle, constructed of a properly-shaped blank of sheet metal, and strengthened, in the usual manner, by turning down the edges at the sides. The upper end of said handle is turned into a hollow edge or "wire," D, the lower end being left plain, so that it can be crimped between the lower edge of the body and the bottom of the vessel when the parts are united.

In the modification shown in Fig. 4 the letter D represents the wire secured under the turned-down rim at the mouth of the vessel.

The parts as thus constructed are secured together by placing the upper wired end of the handle between the ends of the hollow rim formed around the upper edge of the cylinder A, after which said ends are brought together, so as to overlap and inclose the wired end of the handle; or the metal of the rim around the mouth may be left sufficiently open, and the two ends overlapped, and the wired edge of the handle subsequently inserted, and the metal of the rim then turned down over it. Where a wire is employed in the rim at the mouth of the vessel the hollow wired edge of the handle is passed or secured over the wire and the metal of the turned-down rim at the mouth set over the whole, so as to inclose and secure the same. The lower end of the handle is secured between the lower edge of the body A and the bottom of the vessel by crimping it between the two by means of suitable machinery. In this condition the vessel is ready to be soldered, which can be done in the usual manner.

Although, in the present instance, I have represented my invention as applied to the construction of an ordinary tin cup, it is evident that it may be applied to sheet-metal cups

when constructed of metal spun up or constructed in one piece, in which case the lower end of the handle would necessarily have to be secured in the usual manner; and it is further evident that my invention can be applied to all kinds of sheet-metal vessels or utensils constructed with sheet-metal handles.

What I claim, and desire to secure by Letters Patent, is—

1. A sheet-metal vessel or utensil constructed with a turned-down rim around its mouth, either with or without a wire inclosed in the same, in combination with a handle having its upper end turned into a hollow edge or wire, and secured under said turned-down rim, substantially as described.

2. In combination with a sheet-metal vessel or utensil, a handle having the lower end

crimped in between the lower edge of the body and bottom of the same, substantially as described.

3. In combination with a sheet-metal vessel, provided with a turned-down hollow rim, with or without a wire inclosed in the same, a handle provided with a hollow edge or wire at its upper end, and secured in the hollow rim, and having its lower end crimped in between the body and bottom of the vessel or utensil, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

JOHN SOLTER.

Witnesses:

G. E. SANGSTON,  
HENRY W. STAYLOR.