

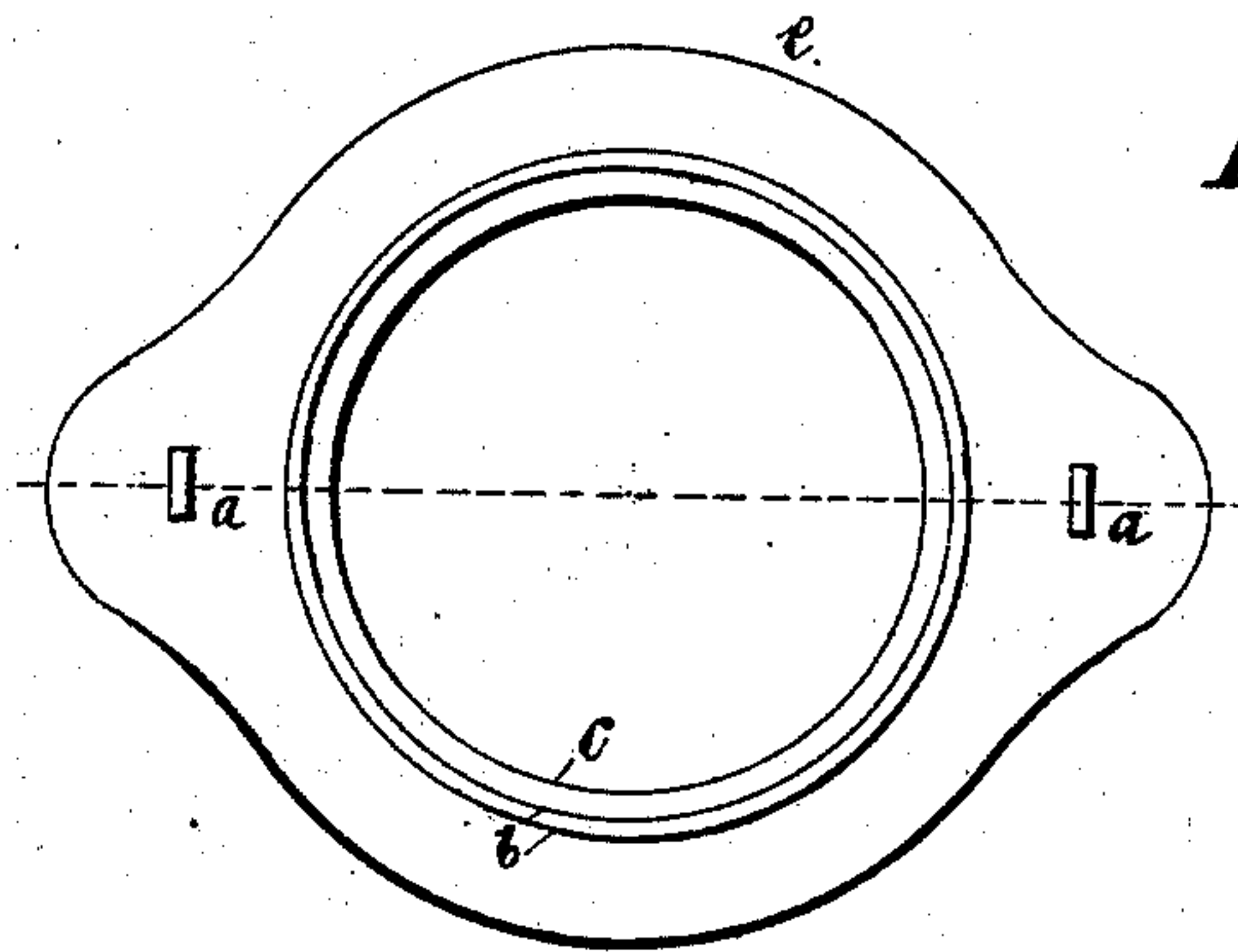
(No Model.)

H. B. DEWEY.

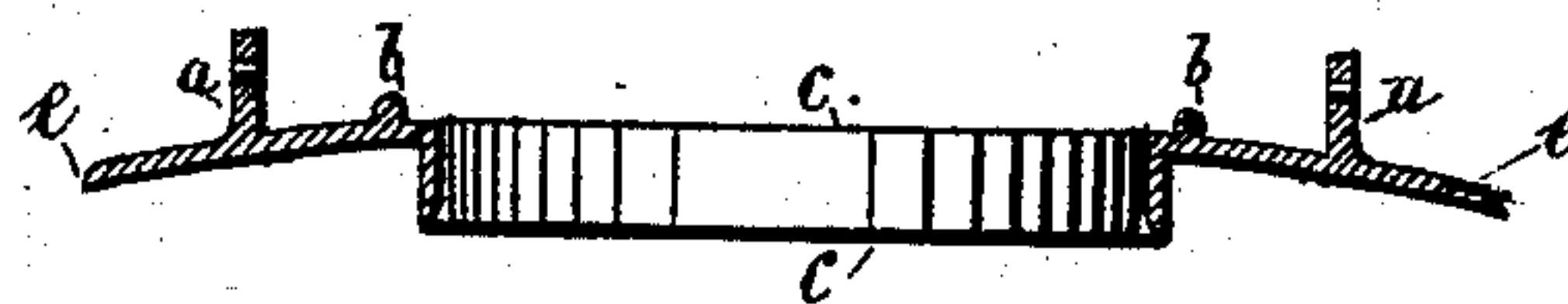
TOP FOR SHEET METAL VESSELS.

No. 278,319.

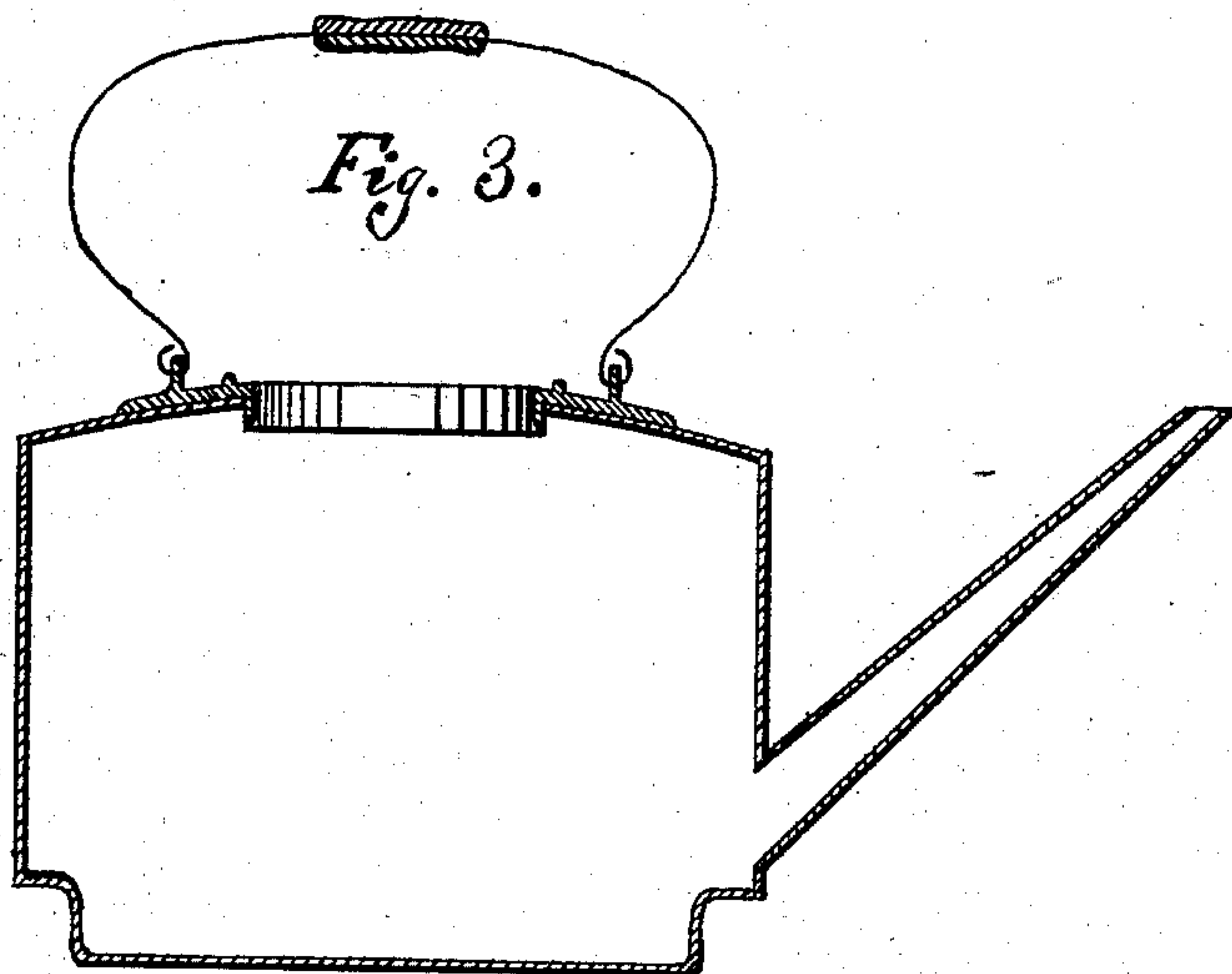
Patented May 29, 1883.



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

Witnesses  
E. J. Leach  
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Inventor  
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# UNITED STATES PATENT OFFICE.

HOSEA B. DEWEY, OF WHITEWATER, WISCONSIN.

## TOP FOR SHEET-METAL VESSELS.

SPECIFICATION forming part of Letters Patent No. 278,319, dated May 29, 1883.

Application filed March 3, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, HOSEA B. DEWEY, a citizen of the United States, residing at White-water, in the county of Walworth and State of Wisconsin, have invented a new and useful Improvement in the Tops of Sheet-Metal Vessels, of which the following is a specification.

The objects of my invention are, first, to increase the durability and utility of the vessel, and, second, to lessen the cost of manufacture.

My invention consists of a solid metallic plate-ring, concave on its lower surface and convex on its upper surface, and having within it a downwardly-extending flange when attached to the upper surface of the top of a sheet-metal vessel, and an upwardly-extending flange when attached to the lower surface thereof, elliptical in form on its outside contour, with two ears or lugs projecting up from the convex side, one of which is located on each end or near to each end, the center of each ear being directly over the diametral line, so made and constructed that it may be hermetically or otherwise attached to the upper or lower surface of the top of a sheet-metal vessel, and when so attached the flange projects into and encircles the opening in the top of the vessel, and thus it performs the double office of furnishing a projection around the opening in the top of the vessel on the outside of which to solder or otherwise fasten it to the upper part of the vessel, and at the same time its inside surface is ample to receive and firmly hold in place the corresponding flange of the cover of the vessel, which telescopes into it when the vessel is closed by putting the cover on.

It is a fact well known to housekeepers and manufacturers of culinary sheet-metal vessels that the tops of such vessels wear out much in advance of the other parts, the cause of which is the rusting and tearing out of the rivets holding the ears or bail attachments to the top of the vessel, and the eating and rusting out of the vessel around the opening in the top of it. Most especially is this true of the vessel generally known as the "tea-kettle." All these faults are completely removed and the vessel made more durable and useful and the cost of manufacture decreased by constructing a vessel in the manner herein set forth.

I attain these objects by the use of a solid metallic plate-ring having within it a down-

wardly or an upwardly extending flange—to wit, if it is to be attached to the top surface of the top of the vessel, then the flange within it extends downward, and if it is to be attached to the bottom surface of the top of the vessel, then the flange within it extends upward, said plate-ring being convex on its upper surface and concave on its lower surface, to accommodate the rounded or oval shape of the top of the vessel to which it is to be attached, and its outside contour elliptical in form and having one ear on each end for bail attachment, the center of each ear to stand directly over the diametral line when drawn from one end to the other, made and constructed as illustrated in the accompanying drawings, in which—

Figure 1 is a top view of a solid metallic plate-ring before being attached to a vessel, showing its shape and relative size. Fig. 2 is a side view of Fig. 1, showing shape of the plate-ring, the ears for bail attachment, and a downwardly-extending flange, which encircles the opening in the top of the vessel and forms the same; and Fig. 3 is a sheet-metal vessel complete, except the cover, (commonly called a "tea-kettle,") with a solid metallic plate-ring, having within it a downwardly-extending flange, which projects into and forms the opening in the top of the vessel, with ears for bail, and a bail pivoted therein, attached to the top of it.

Similar letters refer to similar parts throughout the several views.

In Fig. 1, *a a* represent the ears for bail attachments; *b*, a bead extending around and outside of the bearing for the cover; *c*, the downwardly-extending flange, and *e* the solid metallic plate-ring, convex on its upper and concave on its lower side.

In Fig. 2, *a a* represent the ears for bail attachment, with a hole through each; *b b*, the bead extending around the opening on the outside of the bearing for the cover; *cc*, the downwardly-extending flange encircling the opening in the top of the vessel, on the inside of which the flange of the cover telescopes, and to the outside of which the top of the vessel is soldered; and *e e*, the solid plate-ring extending over the surface of the top of the vessel in every direction from the opening, and to which the ears for bail attachment are attached.

Having described my invention, what I



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

1. The solid metallic plate-ring, concave on its lower surface and convex on its upper surface, having within it a downwardly-extending flange, *c c*, and the bead *b b*, and the ears *a a*, constructed and arranged so as to be hermetically or otherwise attached to the top of a sheet-metal vessel, substantially as described.

2. A sheet-metal vessel with a solid metallic plate-ring extending over or under the surface of the top of the vessel, convex on its upper side and concave on its lower side, and having

within it a downwardly-extending flange when attached to the top surface and an upwardly-extending flange when attached to the bottom surface of the top of a sheet-metal vessel, which encircles the opening in the top of the vessel, and having ears for bail attachments hermetically or otherwise attached to the top of a sheet-metal vessel, substantially as described.

HOSEA B. DEWEY.

Witnesses:

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