M. KAMENSTEIN.

SHEET METAL VESSEL.

APPLICATION FILED AUG. 21, 1908.

919,360. Patented Apr. 27, 1909.

Fig. 1.

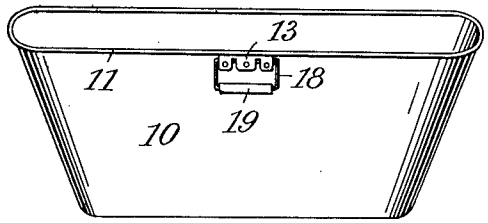


Fig. 2.

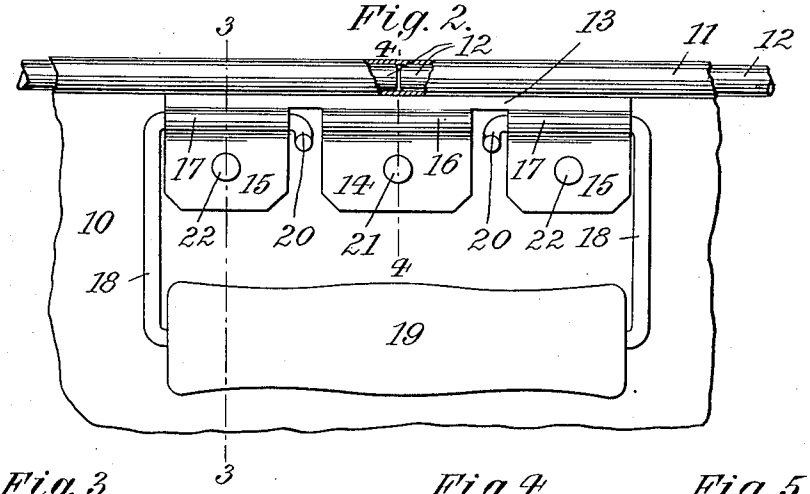


Fig. 3.

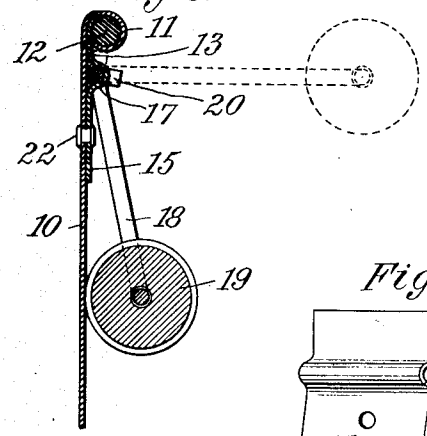


Fig. 4.

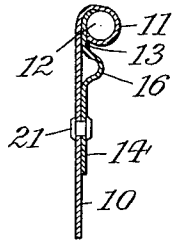


Fig. 5.

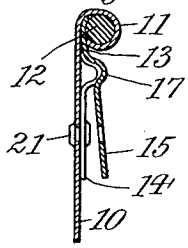
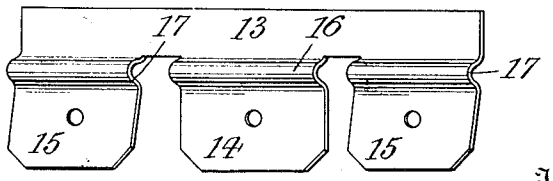


Fig. 6.



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UNITED STATES PATENT OFFICE

MYER KAMENSTEIN, OF NEW YORK, N. Y.

SHEET-METAL VESSEL.

No. 919,360. Specification of Letters Patent. Patented April 27, 1909.

Application filed August 21, 1908. Serial No. 449,582.

To all whom it may concern:

Be it known that I, MYER KAMENSTEIN, a citizen of Russia, residing at New York city, Manhattan, county and State of New York, have invented new and useful Improvements in Sheet-Metal Vessels, of which the following is a specification.

This invention relates to a sheet metal vessel, and more particularly to improved means for attaching the handle to the vessel and simultaneously reinforcing the upper beaded edge thereof.

In the accompanying drawing: Figure 1 is a perspective view of a sheet metal bath tub embodying my invention; Fig. 2 a detail side view, partly in section, of the salient parts thereof; Fig. 3 a cross section on line 3—3, Fig. 2; Fig. 4 a similar section on line 4—4, Fig. 2; Fig. 5 a section similar to Fig. 3, before the handle is attached to the handle-plate, and Fig. 6 a perspective view of the handle-plate, showing it prior to the attachment of the handle.

A sheet metal vessel 10, such as a bath tub, boiler or similar article, is provided with the usual beaded top edge 11, which incloses the reinforcing wire 12. The two ends of this wire meet along the line 4—4, (Fig. 2), at which point the vessel is thus liable to kink or break.

The handle-plate 13 is provided with a central depending lug 14, and two outer similar lugs 15, all three lugs having transverse ribs 16, 17, as shown. Plate 13 projects at its top in an upward direction into bead 11, so as to abut against the inner perimeter thereof, (Figs. 3 and 4), while the lugs 14, 15, depend downwardly from said bead. The correlation of the parts is such that lug 14 is centered beneath the meeting line 4—4, of the two ends of wire 12, so that it extends into bead 11 back of such free ends and reinforces vessel 10, at this vulnerable point and also in the immediate vicinity thereof. Rib 16 of lug 14 serves to stiffen the lug against bending, and thus constitutes additional reinforcing means for vessel 10.

The grooves formed back of ribs 17 in outer lugs 15, receive the two ends of the wire bail 18, which is thus pivoted to the handle-plate and carries the grip 19. As shown, the inner ends of bail 18 are bent forwardly, as at 20, so that they may engage plate 13 when swung up. Thus the handle is both an upright and a drop handle.

In assembling the parts, lugs 15 are bent slightly forward, (Fig. 6), handle-plate 13 is slipped with its top into bead 11, the central lug 14 is riveted at 21 to vessel 10, and the parts are galvanized together. Bail 18 is then fitted to lugs 15, the latter are bent against vessel 10 and riveted thereto at 22. In this way the parts are quickly connected in a simple and effective manner.

I claim:

1. A sheet metal vessel having an upper bead, an inclosed wire, a handle plate secured to the vessel below the bead and having its upper edge projecting into the bead back of the meeting edges of the latter, said plate including a series of spaced portions each provided with a rib, and a handle whose bail has its ends fitted between the ribs of the outermost spaced portions and the vessel with the extremities of the bail terminating short of the intermediate spaced portion whose rib is disposed beneath the meeting ends of the aforesaid wire to strengthen the vessel thereat.

2. A sheet metal vessel having an upper bead, an inclosed wire, a handle plate secured to the vessel below the bead and having its upper edge projected into the bead back of the meeting ends of the wire, said plate having a series of alining ribs beneath said bead to strengthen the plate, and a handle whose bail is mounted for swinging movement between the outermost ribs and the vessel, the intermediate rib being disposed immediately beneath the meeting ends of the wire.

Signed by me at New York city, (Manhattan,) N. Y., this 20th day of August, 1908.

MYER KAMENSTEIN.

Witnesses:
W. R. SCHULZ,
FRANK V. BRIESEN.