(No Model.)

J. S. HAGERTY & J. S. DETRICK.

EAR FOR SHEET METAL VESSELS.

No. 309,711. Patented Dec. 23, 1884.

FIG I.

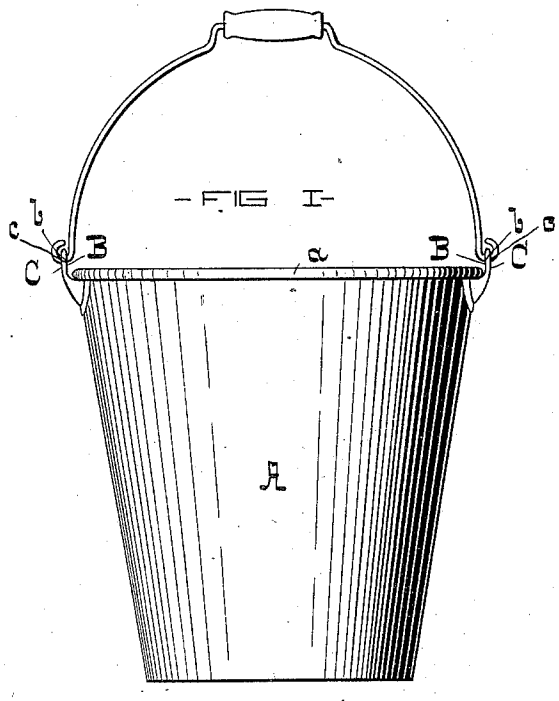


FIG II.

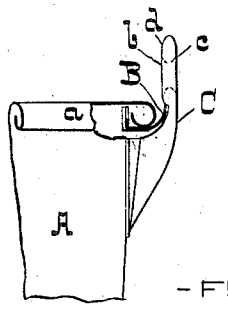


FIG III.

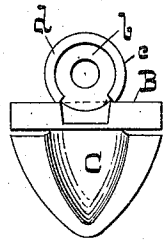


FIG IV.

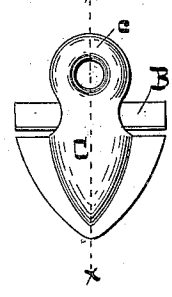


FIG V.

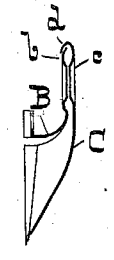


FIG VII.

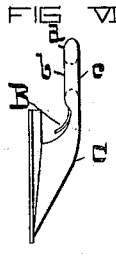


FIG VI.

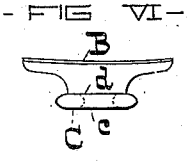
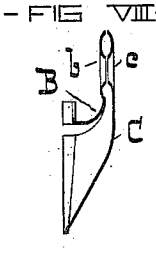


FIG VIII.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES S. HAGERTY AND JACOB S. DETRICK, OF BALTIMORE, MARYLAND.

EAR FOR SHEET-METAL VESSELS.

SPECIFICATION forming part of Letters Patent No. 309,711, dated December 23, 1884.

Application filed July 24, 1884. (No model.)

To all whom it may concern:

Be it known that we, JAMES S. HAGERTY and JACOB S. DETRICK, both of the city of Baltimore and State of Maryland, have invented certain Improvements in Ears for Sheet-Metal Vessels, of which the following is a specification.

In the description of the said invention which follows reference is had to the accompanying drawings, forming a part hereof, and in which—

Figure I is an exterior view of a bucket provided with our improved ears. Fig. II is a partly-sectional view, on an enlarged scale, of a portion of the bucket and the ear. Figs. III and IV are respectively an inside and an outside view of the ear enlarged. Fig. V is a section taken on the dotted line *x x*, Fig. IV. Fig. VI is a top view of Fig. IV. Figs. VII and VIII illustrate modifications in the construction of the ear, as hereinafter described.

A is the bucket, having the usual beaded or wired edge, *a*.

B and C are plates which form, respectively, the inner and the outer member of the ear. The inner plate, B, is crimped into the beaded edge *a* of the bucket, as shown in Fig. II, and the portion *b*, which extends above the edge of the bucket, is rounded and perforated to receive the end of the bail. The outer plate, C, is soldered to the side of the bucket, and it has an annular extension, *c*, similar to the one, *b*, of the plate B, and a flange, *d*, which is crimped over the edge of the extension *b*.

To increase the strength and rigidity of the annular partion of the ear, the plates B and C, where in contact, are depressed annularly, as shown particularly in Fig. V. The ear is further strengthened by rounding the plate C below the annular extension *c*, as shown in Figs. III and IV. The part of the plate B which is crimped in the beaded edge *a* of the bucket is preferably cut away at the center, as shown in Fig. III. The notch may, however, be dispensed with, as shown in dotted lines in Fig. III.

In Fig. VII the outer plate is crimped in the beaded edge of the bucket, instead of the inner one, B.

While we prefer the annular portions of the plates B and C to be crimped together, as shown, they may be merely soldered where they come in contact, as shown in Fig. VIII.

We claim as our invention—

1. An ear for a sheet-metal vessel, which consists of two plates having extensions which are perforated and annularly depressed, and their edges attached together, substantially as specified.

2. In combination with a sheet-metal vessel having a beaded edge, an ear which consists of an inner plate crimped in the said bead, and provided with an annular extension, and an outer plate soldered to the said vessel, having an annular extension, and a surrounding flange, which is crimped over the edge of the extension of the inner plate, substantially as specified.

JAS. S. HAGERTY.
JACOB S. DETRICK.

Witnesses:
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