

J. S. FIELD.
Sheet-Metal Can.

No. 216,167.

Patented June 3, 1879.

Fig. 2.

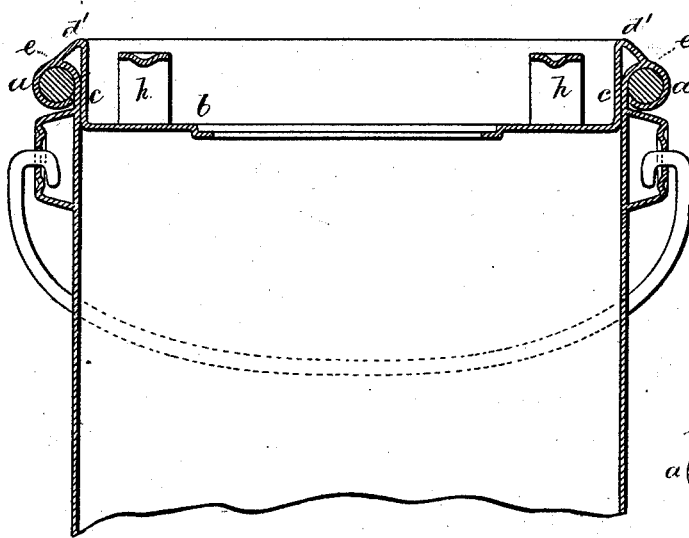


Fig. 3.

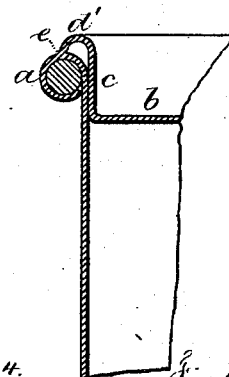


Fig. 4.

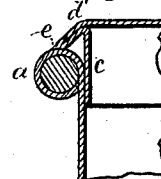


Fig. 5.

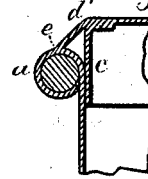
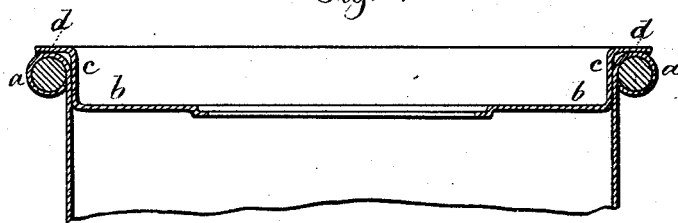


Fig. 1.



Witnesses

Chas. H. Smith
Geo. D. Pinckney

Inventor.

Jos. S. Field.

per Lemuel W. Serrell.

att'y

UNITED STATES PATENT OFFICE

JOSEPH S. FIELD, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SHEET-METAL CANS.

Specification forming part of Letters Patent No. **216,167**, dated June 3, 1879; application filed March 14, 1879.

To all whom it may concern:

Be it known that I, JOSEPH S. FIELD, of Brooklyn, in the State of New York, have invented an Improvement in Sheet-Metal Cans, of which the following is a specification.

In Letters Patent No. 210,512 a can is set forth in which the cover rests upon a shoulder or offset within the can, and there is a crown around the cover, and the edge of the cover is soldered to the top of the can. When the crown is subjected to pressure or concussion from a hammer the solder is broken by a leverage action.

I have discovered that the offset or shoulder in the can may be dispensed with by making the soldered edge of the cover at an inclination, so that when the pressure is applied to the cover the solder is broken by the act of flattening the inclined edge of the cover, and in so doing the cover itself becomes of the ordinary shape, similar to pot or can covers heretofore employed, that are firmly held in place, but can easily be lifted off or replaced.

Covers for pots, cans, and other vessels have been made in the form illustrated by the section Figure 1, in which *a a* are the flanged or wired top edges of the can, pot, or other vessel. *b* is the cover, made with a cylindrical, or nearly cylindrical, rim, *c*, that passes into the mouth or top end of the can or pot; and *d* is the flange or edge of the cover that rests upon the top edge of the can or pot to prevent the cover falling in.

The object of my invention is to allow this character of cover to be soldered to the can in such a manner that it can be opened by pressure or percussion, and when so opened the cover will assume the form, or nearly so, of the ordinary removable cover shown in Fig. 1.

To effect this object the flange *d*, instead of being made flat, is inclined downwardly and outwardly, as seen at *d'* in the sections Figs. 2 and 3, so that the edge of the sheet metal (instead of the flat surface) rests upon the top edge, *a*, of the can or vessel, and is soldered at *e*. This forms a convenient and reliable can, and one in which the cover can

be soldered in place after the can has been filled, because the solder can be applied while the can is standing level.

I wish it, however, to be understood that the can may be provided with a hole, either at the top or bottom, through which the can is to be filled, and this is closed by a disk that is soldered to place.

In my aforesaid Patent No. 210,512 the sheet metal, coming edge to edge in nearly a vertical position, cannot be soldered after the can is filled. The soldering operation has to be performed with the can lying upon its side.

In my present improvement the edge of the sheet metal of the cover, resting upon the surface of the sheet metal where it is turned over at the top of the can, may be easily soldered thereto, because the soldering-iron can rest upon the top edge of the can and be drawn around horizontally to solder the cover to place when the can is standing on its bottom end, the solder flowing into the angle between the can and the cover.

The solder flows at the edge of the sheet metal of the cover, and the said solder is broken by flattening the inclined edge of the sheet metal. This is effected by the blows of a hammer around the inclined rim or by pressure. The same serves to flatten out the sheet metal as well as to break the solder, so that when the can has been opened the cover is of the ordinary shape or nearly so.

The handles *h* are of sheet metal, soldered within the recessed cover, and they are of the same height, or nearly so, as the top of the crown, so as to form a bearing for the bottom of the next can when several cans are piled one upon the other.

The top edge of the can may be wired, as shown, or it may have a flat flange.

Figs. 4 and 5 are sections illustrative of the manner in which the inclined edge of the rim may be made, the same being soldered up in the manner aforesaid, and being opened by flattening the metal.

I claim as my invention—

1. The combination, with a vessel, of the sheet-metal cover having a rim, *c*, passing into the vessel, and an outwardly and down-

wardly inclined edge resting upon and soldered to the upper end of the vessel, substantially as set forth.

2. A sheet-metal can having a flange at its upper end formed of the metal of the can, in combination with a sheet-metal cover, the edge of which is inclined outwardly and downwardly, and the edge of the metal of the cover rests upon the side of the sheet metal of the

flange of the can and is soldered thereto, substantially as and for the purposes set forth.

Signed by me this 12th day of March, A. D. 1879.

JOSEPH S. FIELD.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.