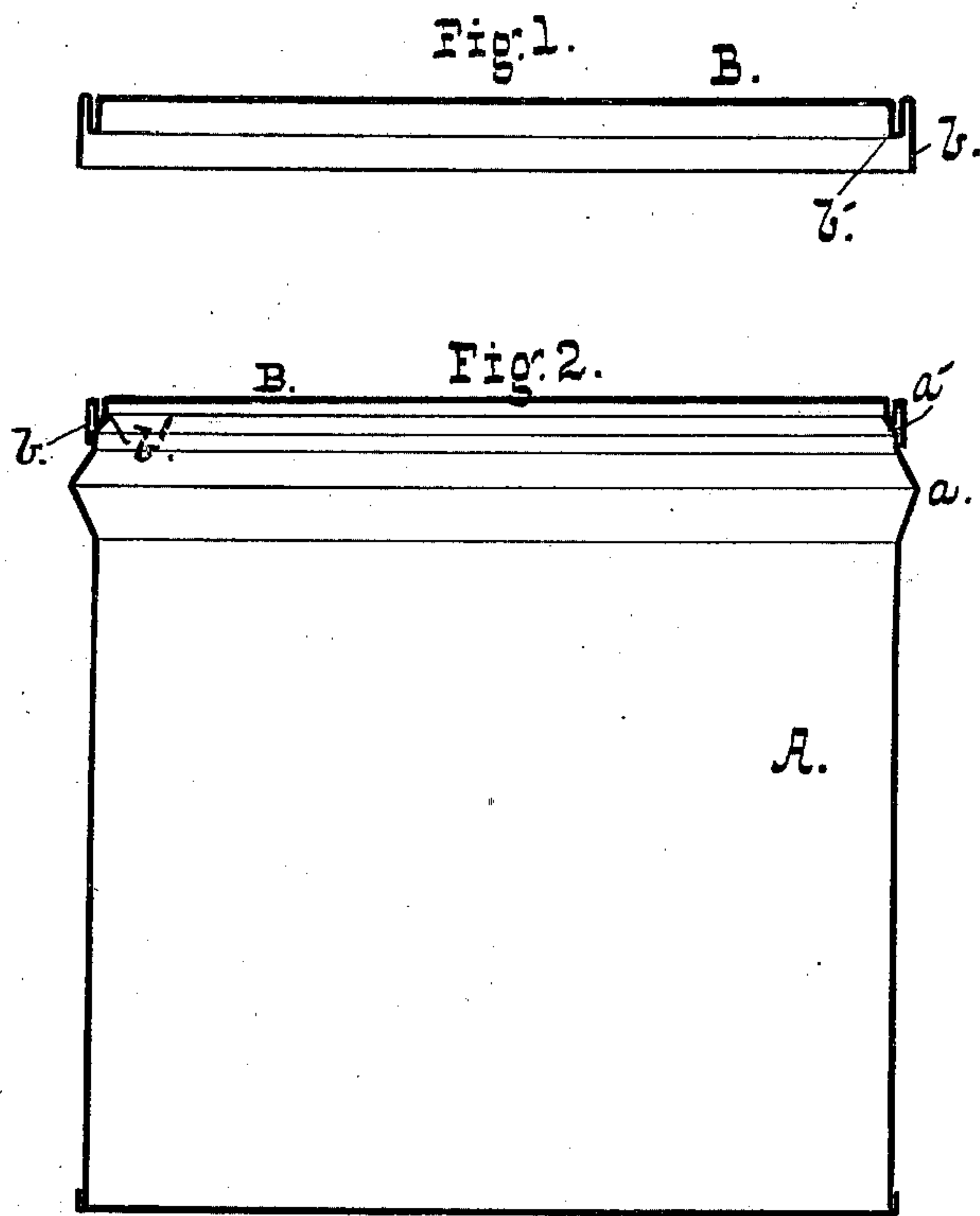


(No Model.)

G. F. GRIFFIN.
SHEET METAL CAN OR BOX.

No. 245,815.

Patented Aug. 16, 1881.



WITNESSES.

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GEORGE F. GRIFFIN, OF LONDON, COUNTY OF MIDDLESEX, ENGLAND.

SHEET-METAL CAN OR BOX.

SPECIFICATION forming part of Letters Patent No. 245,815, dated August 16, 1881.

Application filed June 14, 1881. (No model.)

To all whom it may concern:

Be it known that I, GEORGE FEATHERSTONE GRIFFIN, of London, England, have invented certain new and useful Improvements in Sheet-Metal Cans or Boxes; and I hereby declare the same to be fully, clearly, and exactly described as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a central vertical sectional view of the head or cover; Fig. 2, a similar view of the can or box and cover. Fig. 3 is an enlarged view, showing the mode of breaking the joint.

My invention relates to improvements in sheet-metal cans or boxes having a lid or cover soldered to the body, which said lid is loosened preparatory to removal by hammering upon its edge, whereby it is driven down over a rib or ribs upon the body of the box, which wedges the lower edge of the lid away from the body and breaks the solder, as set forth in the specification to my Letters Patent No. 241,001, dated May 3, 1881.

My invention consists in a box having an inwardly-bent upper edge and a lid or cover formed with an inner and an outer flange, which rest, respectively, upon the bent edge and against the cylindrical walls of the box near its top, the walls being provided with an expanding-rib, as hereinafter set forth. Thus when the lid is driven down I have a double action to cause the breaking of the solder—namely, a bending inward of the edge of the body of the box from the solder under the wedging action of the inner flange and a forcing of the outer flange therefrom by the action of the rib or ribs of the body of the box. I am thus enabled, while using very light tin and strongly soldering the lid to the body with ordinary solder, to insure the opening of the can with-

out fear of the lid or box being crushed and jammed.

In the drawings, A is the body of the box; *a*, wedge-like projection surrounding the same; *a'*, inward curve of top edge of body. B is the cover, whose outer flange, *b*, is of sufficient depth to rest upon the top of the rib or projection *a*; and *b'* is the inner flange, formed by stamping, pressing, or otherwise grooving or bending in the cover.

The box being filled, the lid is soldered in place by ordinary solder, *c*.

In order to open the box it is only necessary to hammer on the edge of the cover, pressing it down over the body. In so doing the lower edge of the flange *b* of the cover rises upon the projection or rib *a* and is torn away from the body of the can, at the same moment the wedge action of the inner flange, *b'*, upon the curve or angle *a'*, pressing this part of the body inward, assists in breaking the solder, enabling one to remove the cover, which latter may be replaced afterward.

I may strengthen the body and cover by folding or doubling the edges; but I find that my double flange gives sufficient stiffness to the lid or cover, even if made of very thin metal.

What I claim is—

A sheet-metal box having an inwardly-bent edge, *a'*, and a lid provided with an outer flange, *b*, and an inner flange, *b'*, resting upon the bent edge of the box, as and for the purpose set forth.

GEORGE FEATHERSTONE GRIFFIN.

Witnesses:

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