

(No Model.)

J. BENTLEY.

BOX FOR ALIMENTARY AND OTHER SUBSTANCES.

No. 335,881.

Patented Feb. 9, 1886.

FIG:1.

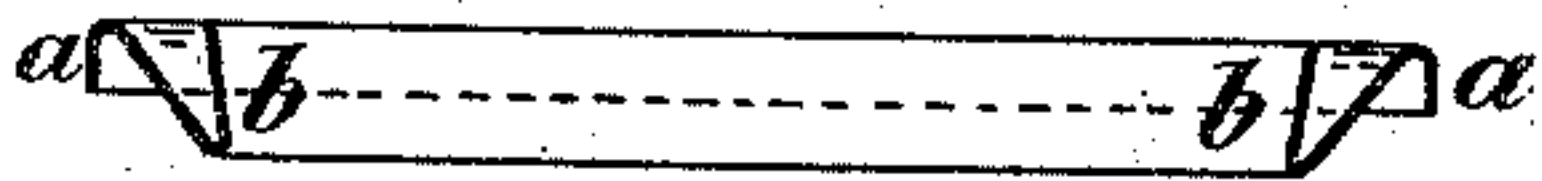


FIG:2.

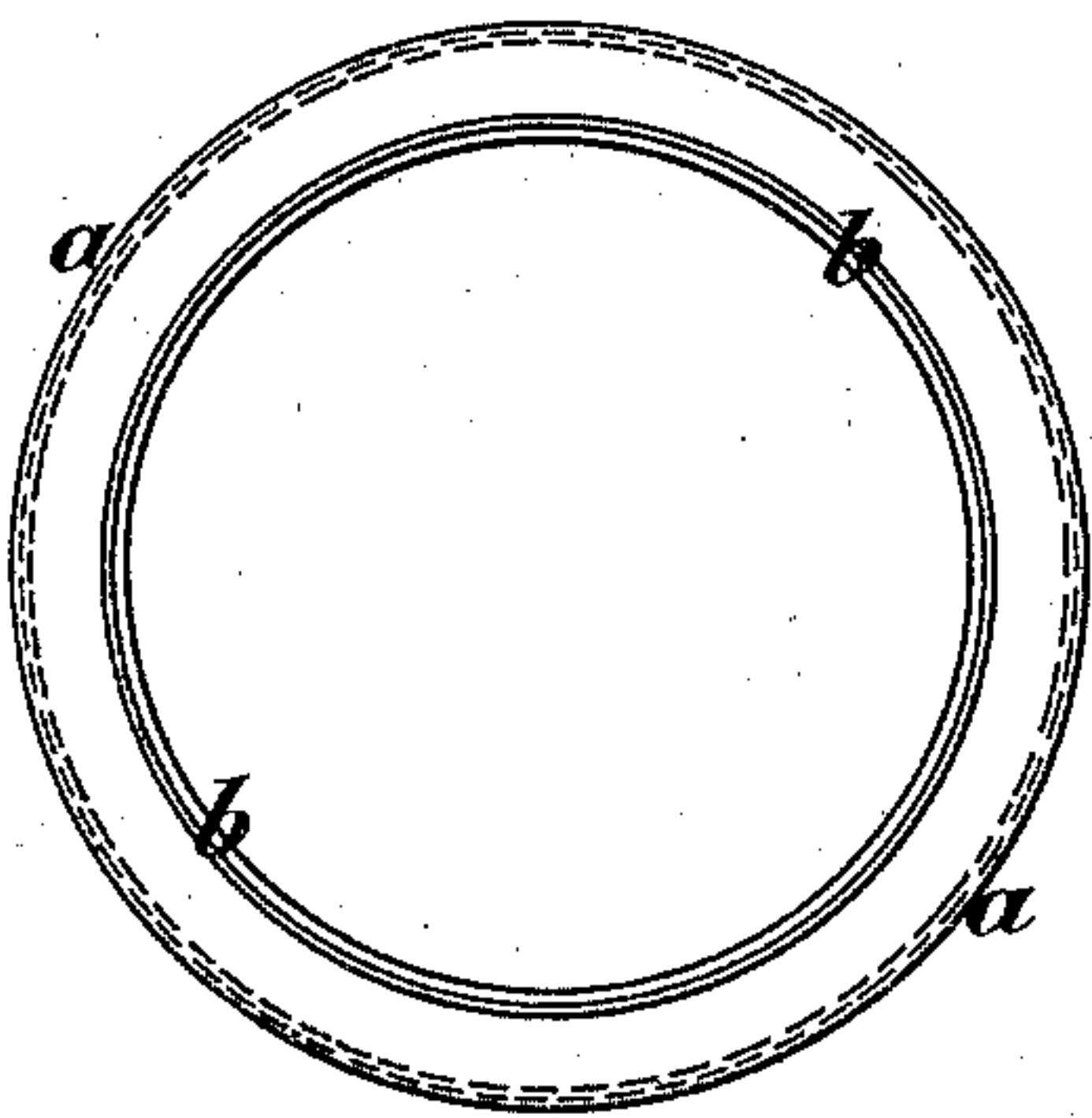


FIG:4.

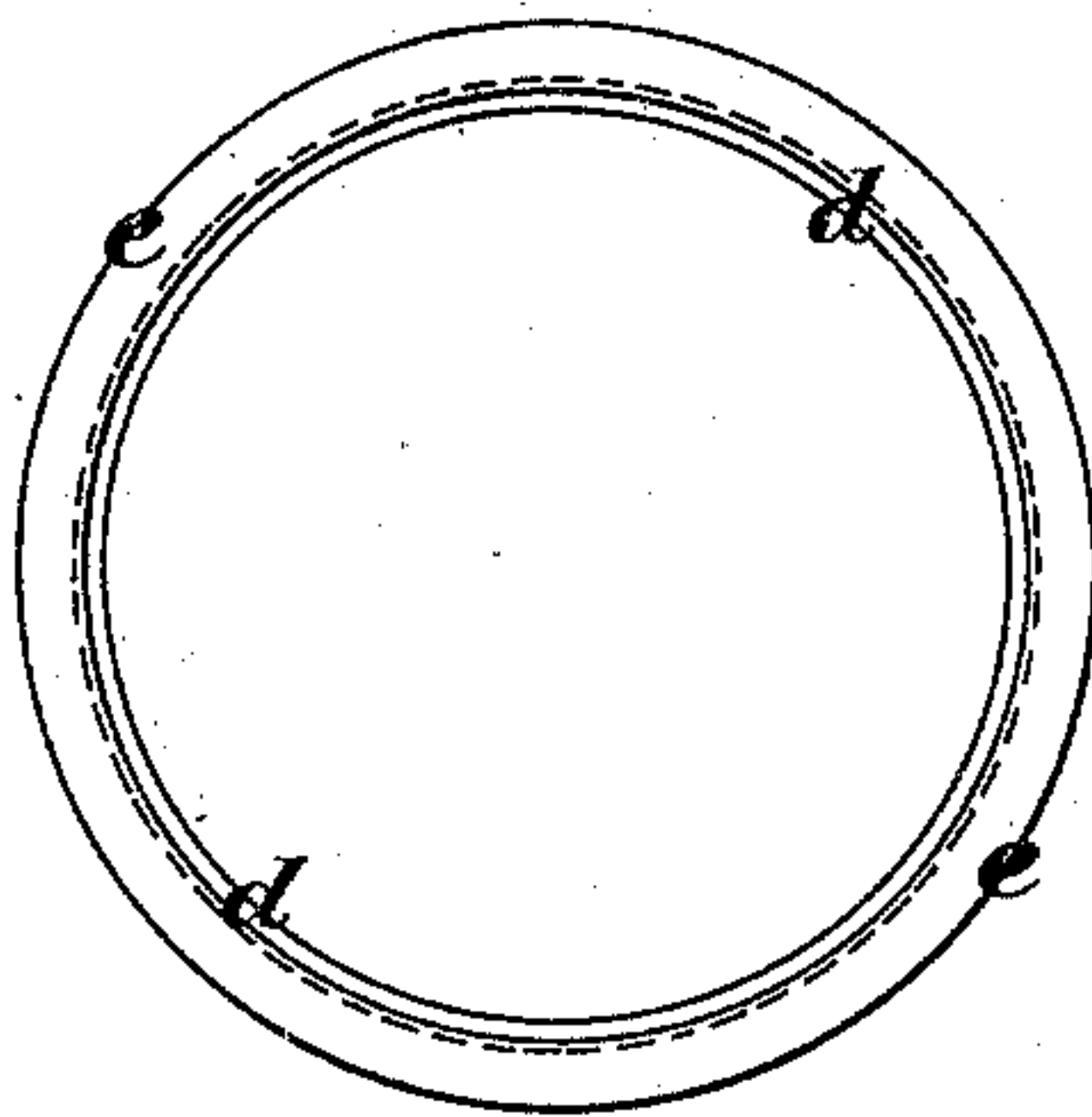


FIG:6.



FIG:7.

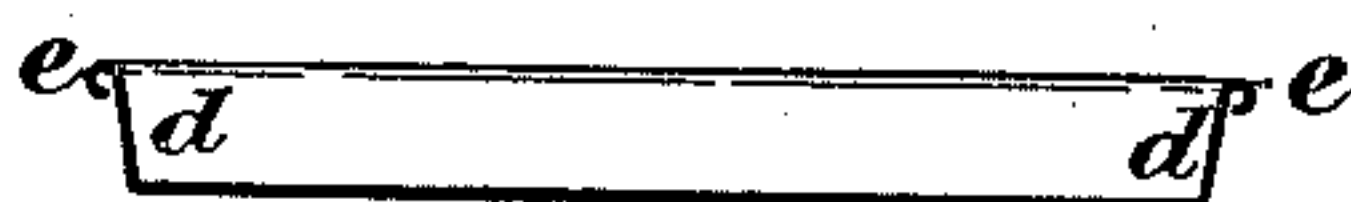


FIG:3.

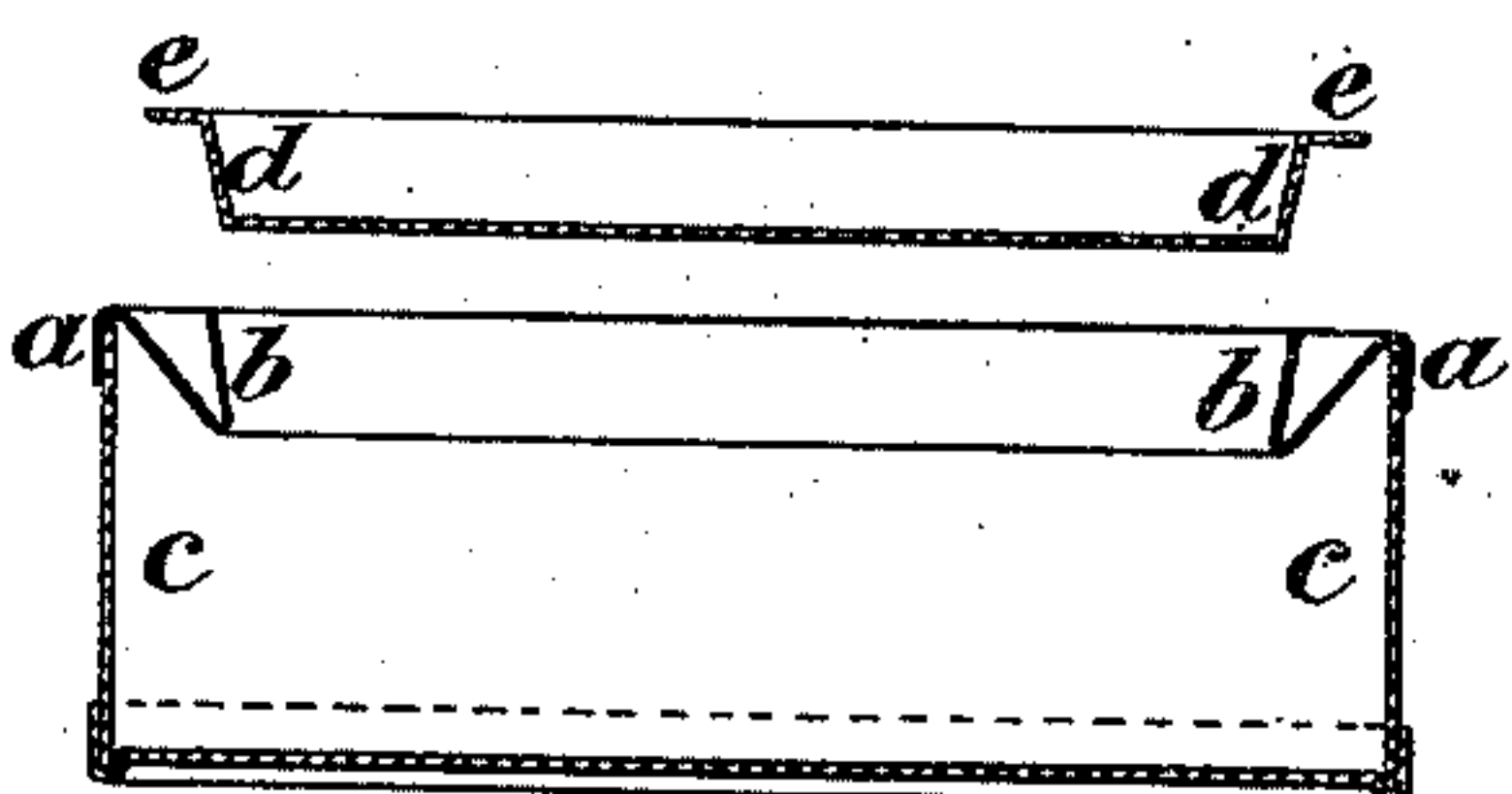
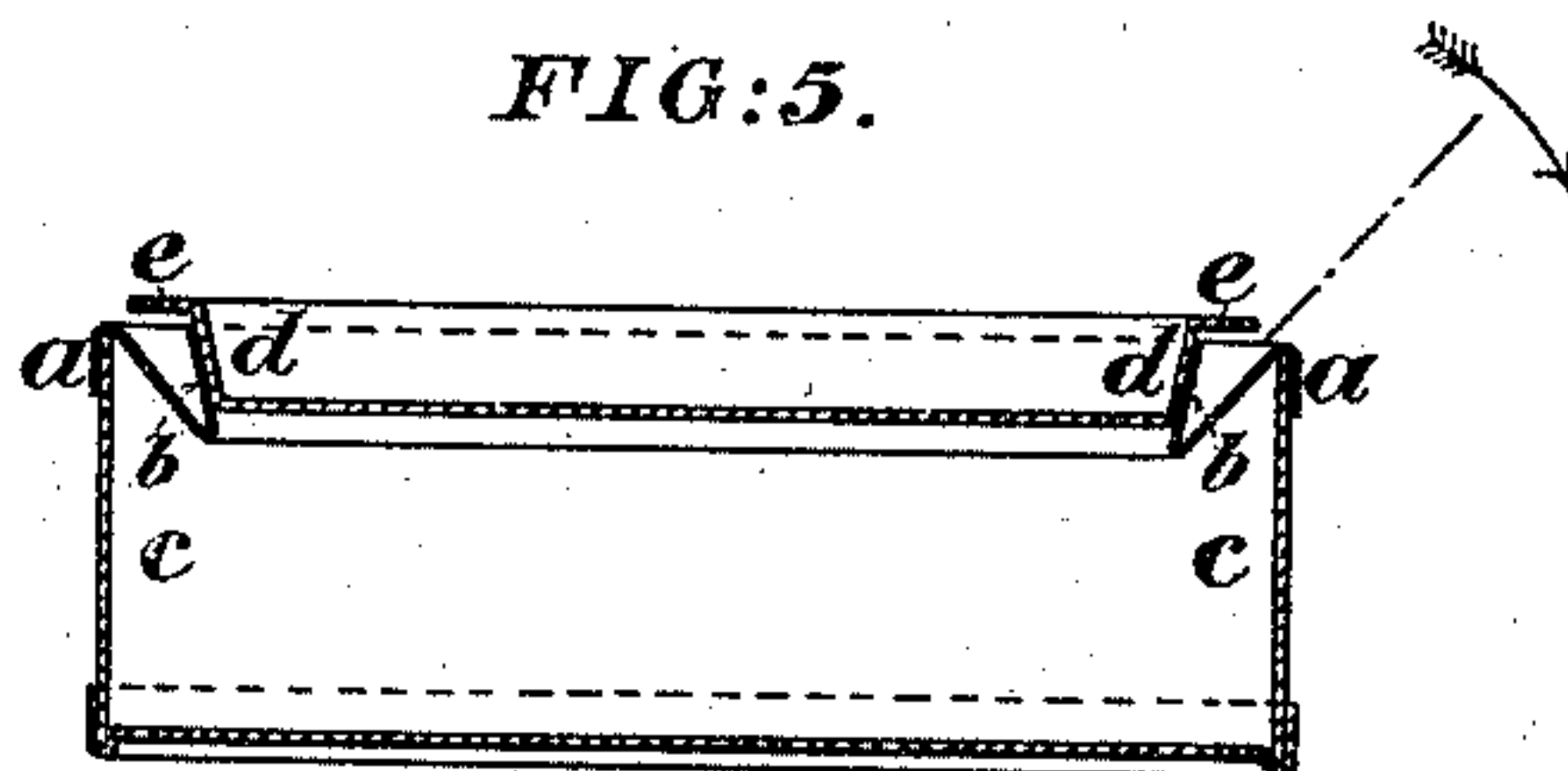


FIG:5.



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JOHN BENTLEY, OF MANCHESTER, COUNTY OF LANCASTER, ENGLAND.

BOX FOR ALIMENTARY AND OTHER SUBSTANCES.

SPECIFICATION forming part of Letters Patent No. 335,881, dated February 9, 1886.

Application filed October 7, 1885. Serial No. 179,185. (No model.) Patented in England June 24, 1885, No. 7,663.

To all whom it may concern:

Be it known that I, JOHN BENTLEY, a subject of the Queen of Great Britain, and residing at Manchester, county of Lancaster, England, have invented Improvements in Boxes, Cases, or other Receptacles for Containing Alimentary and other Substances; (for which I have applied for a patent in Great Britain, No. 7,663, June 24, 1885,) of which the following is a specification.

The principal object of my invention is to make metal boxes or cases used for containing alimentary and other substances, so that the lid or cover will fit tightly in the mouth thereof, (like a stopper,) but can easily be lifted or pried out. The same invention is, however, equally applicable for closing the mouth of jars or other vessels or receptacles made of earthenware or other similar materials.

In the drawings annexed to this specification I have shown my invention as applied to a metal box or case of a cylindrical form for the sake of illustration.

Figure 1 is a sectional view of the metal ring hereinafter described. Fig. 2 is a plan view of the box with the lid removed. Fig. 3 is a sectional view of the box with the lid shown a little distance therefrom. Fig. 4 is a plan view of the lid. Fig. 5 is a sectional view of the box with the lid on. Figs. 6 and 7 are sectional views of modified forms of the lid, hereinafter described.

The box, case, jar, or other receptacle, however, may be made of earthenware or other material, and of any convenient shape, provided that the mouth or opening thereof is made in a circular or other suitable form.

Whether made of metal, earthenware, or other material, the box, case, jar, or other vessel is to be fitted at the top or mouth with a metal ring, the section of which is somewhat like the letter Z turned on its side, as shown at *a a b b*, Fig. 1, (section,) and Fig. 2 (plan view) on the annexed drawings. The outer ring, *a a*, fits over the edge of the box, case, or vessel, and is to be attached thereto in an air-tight manner.

Fig. 3 is a section of a cylindrical metal box, *c c*, with the rim *a a* soldered to its upper edge, and the inner ring, *b b*, (which is slightly conical or bell-mouthed,) forms the mouth of the same. The lid or cover (see also plan view, Fig. 4) is made with a rim, *d d*, also slightly conical, which fits closely inside the inner ring or mouth, *b b*, of the box, case, or vessel *c c*, as shown at Fig. 5, (which is a section of the box *c c* with the lid or cover in its place,) and thus the lid or cover, when firmly pressed downward, closes the same air-tight.

The rim of the lid or cover is turned over or flanged at *e e*, so that it can be removed when required by raising or forcing it upward, using the upper edge of the box, case, or vessel as a fulcrum for a lever or other instrument employed for that purpose and prying or forcing the lid or cover upward by means of the projecting top flange, *e e*, as shown by the dotted lines in Fig. 5.

The flange *e e* of the lid may be either flat, as shown at Figs. 3 and 5, or it may be turned down, as at Fig. 6, or curled under, as at Fig. 7.

It will be observed that the body of the cap is depressed, leaving the rim *d* above the body, so that said rim *d* is greatly strengthened and supported, and in consequence considerable pressure can be applied to force the cap into the ring *b* without danger of collapsing the cap, and hence a perfectly-tight joint can be made without solder and the box used over and over again.

I claim as my invention—

The combination of a box or vessel with a metal ring, *a b*, of a Z shape, and a lid having a depressed body, and a conical rim above its body, adapted to said Z-shaped ring, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN BENTLEY.

Witnesses:

GEORGE DAVIES,
CHARLES J. DAVIES.