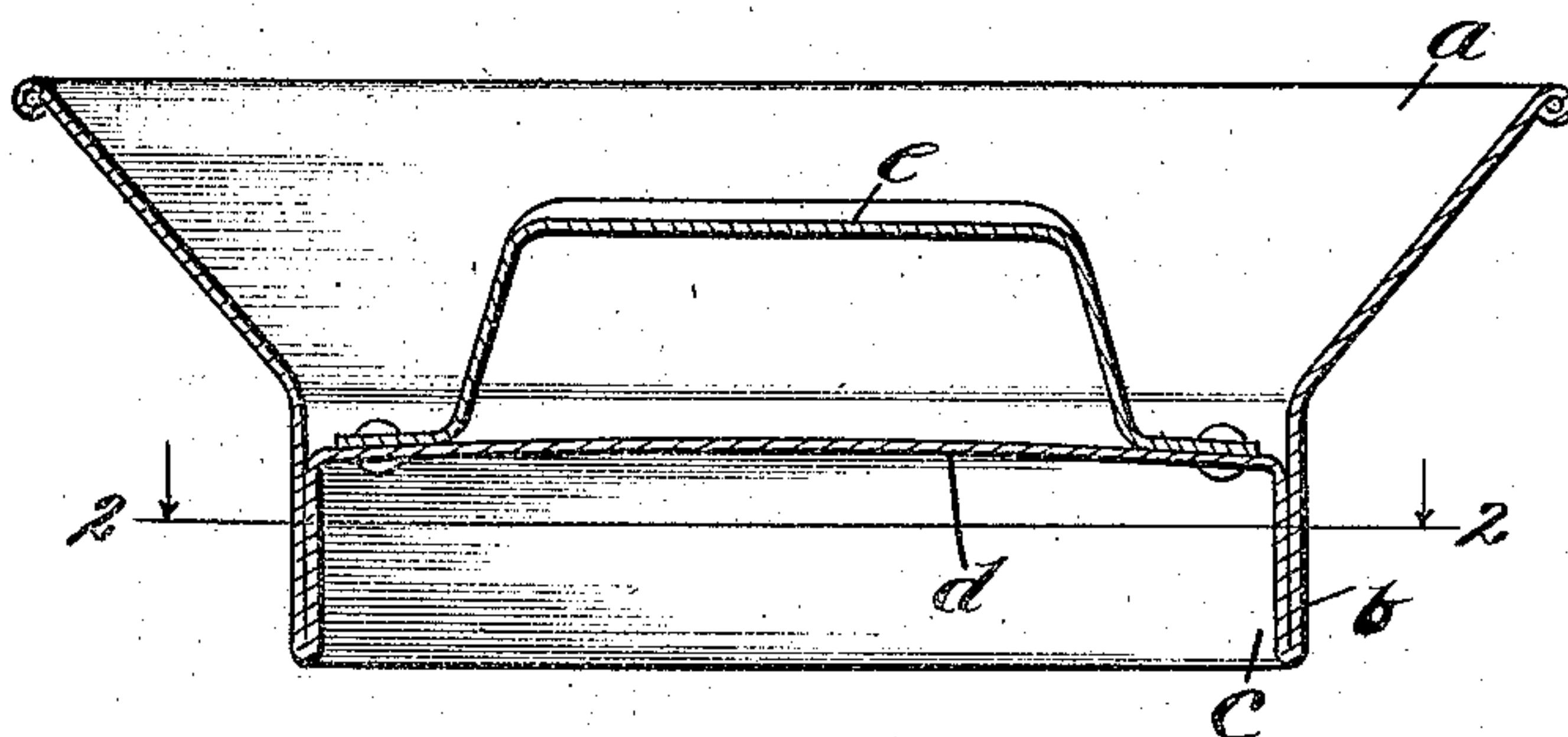


R. BRAY.  
MILK CAN COVER.  
APPLICATION FILED DEC. 7, 1908.

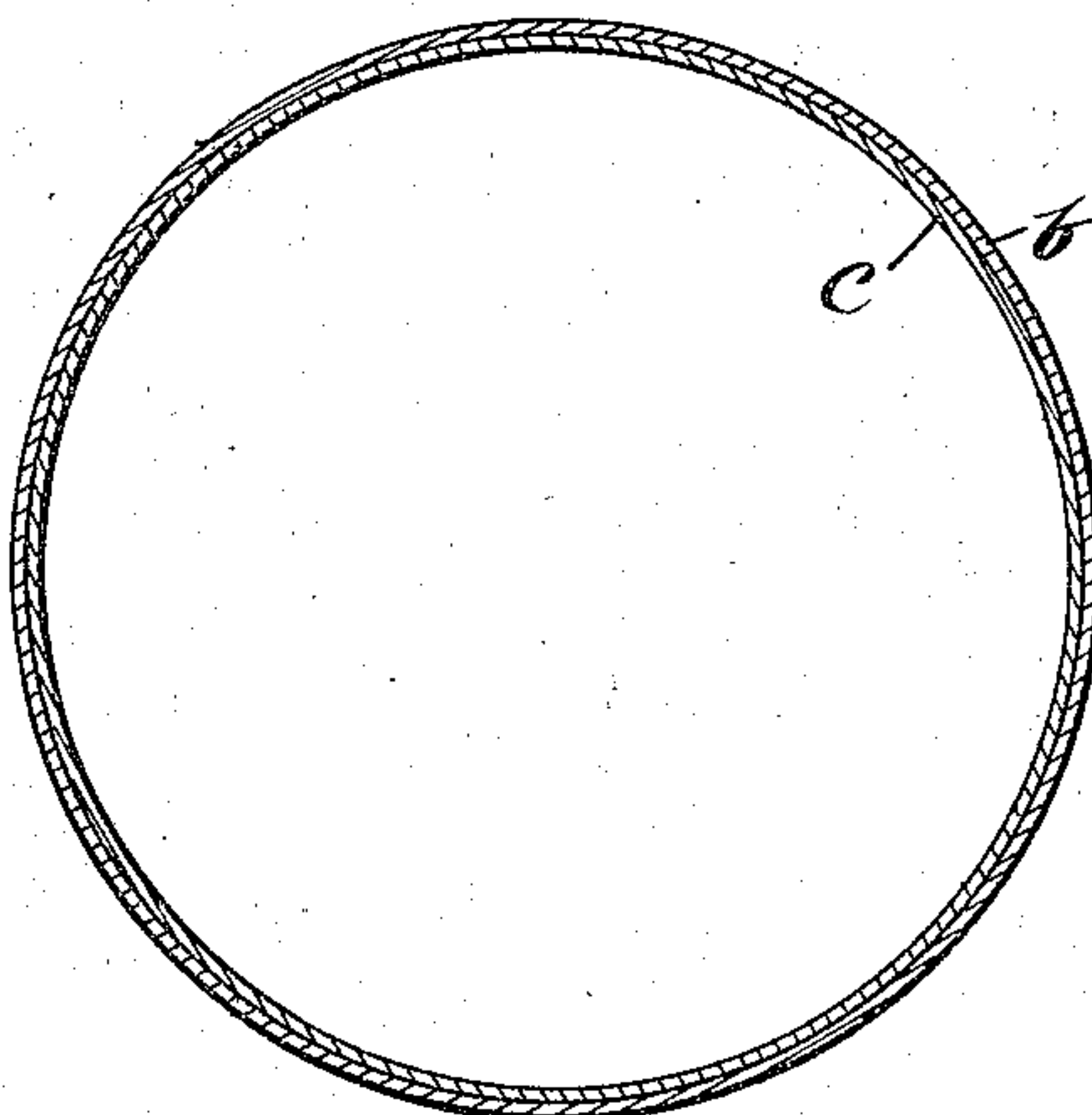
915,825.

Patented Mar. 23, 1909.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*Wm. D. Perry*  
*Allen J. Sams.*

Inventor:

*Richard Bray*  
By *Bond, Adams, Richard J. Adams*  
*Attys.*



# UNITED STATES PATENT OFFICE.

RICHARD BRAY, OF ARLINGTON HEIGHTS, ILLINOIS, ASSIGNOR TO BRAY & KATES, OF ARLINGTON HEIGHTS, ILLINOIS, A FIRM.

## MILK-CAN COVER.

No. 915,825.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed December 7, 1908. Serial No. 466,324.

*To all whom it may concern:*

Be it known that I, RICHARD BRAY, a citizen of the United States, residing at Arlington Heights, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Milk-Can Covers, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to improvements in covers for cans and is designed particularly for use in connection with large cans in which milk is shipped. As ordinarily made such can covers are made of a plurality of pieces 15 suitably united together, generally by soldering.

It is the object of my invention to construct from a single piece a can cover of ordinary appearance, viz. one having a flaring 20 top, a cylindrical body portion to fit within a correspondingly-shaped neck of a can, and a raised diaphragm to which an ordinary handle is adapted to be secured.

In a milk-can cover of ordinary construction the cylindrical portion referred to is 25 formed of but a single thickness of material and, owing to the rough usage to which milk-cans and their covers are ordinarily subjected, such cylindrical portion frequently 30 gets bent or battered to such an extent as to destroy the close fit that it was designed to have with the neck of the milk-can. This is a very serious objection inasmuch as when the snug fit of the cover in the can is impaired the can as a whole cannot be relied 35 upon to retain its contents in a strictly sanitary condition.

It is a further object of my invention to so construct this portion of the cover that it will 40 be of double the ordinary thickness and hence be much stronger than the usual construction and therefore be less liable to become battered and misshapen.

I accomplish these objects by the construction shown in the drawings and herein- 45 after specifically described.

That which I believe to be new will be set forth in the claim.

In the drawings,—Figure 1 is a vertical central section through my improved cover; 50 and Fig. 2 is a longitudinal section taken at line 2—2 of Fig. 1.

Referring to the figures of the drawings,—*a* indicates the flaring upper portion of the cover; *b* and *c* the outer and inner members of 55 a cylindrical double wall and *d* a diaphragm that forms a closure for the said cylindrical portion of the cover. These parts *a b c* and *d* are, as clearly shown in Fig. 1, formed from a single piece of material. In the manufacture 60 of this cover the sheet of metal is drawn to form a comparatively long cylinder closed at one end and then by further dies the flaring portion *a* is produced and the metal bent upon itself to form the two thicknesses that 65 produce the straight double wall *b c* and the horizontal diaphragm *d* integral with the inner member of such double wall. The two members *b* and *c* of such double wall are, by the forming die employed, made to lie very 70 closely together and thereby produce an exceedingly strong structure. The turning of the metal to produce this double wall construction necessarily gives a rounded lower edge to such wall, as is plainly apparent 75 from Fig. 1, and being so rounded and of double thickness the lower edge is much less liable to become nicked or split than where, as in the ordinary construction, the lower edge is simply the raw, plain edge of an 80 ordinary sheet of metal. The inner and outer members *b* and *c* are in practice pressed so closely together during the process of construction that but a very slight crack or opening is left between them at the upper 85 end of the member *c*—so slight, in fact, that it will be completely closed by the molten tin when the cove as a whole is subjected to the usual tinning bath. Of course, such opening may be closed by solder if desired, 90 although I do not deem that essential.

By my invention I provide a very neat, strong, and durable cover that can be readily and inexpensively formed and which offers no opportunity for the lodgment of particles 95 of milk or dirt.

*e* indicates a handle secured in any approved manner to the diaphragm *d*.

That which I claim as my invention, and desire to secure by Letters Patent, is,—

- 5 As a new article of manufacture, a can-cover formed of a single piece of material and comprising a flaring upper portion, a cylindrical portion consisting of an inner and an

outer wall member, and a diaphragm extending across and closing said cylindrical portion.

RICHARD BRAY.

Witnesses:

W. A. FURNNER,  
W. H. DE BUSK.