Jan. 30, 1923. 1,443,682

C. GUERITEY.
CONTAINER.
FILED MAR 11, 1922.

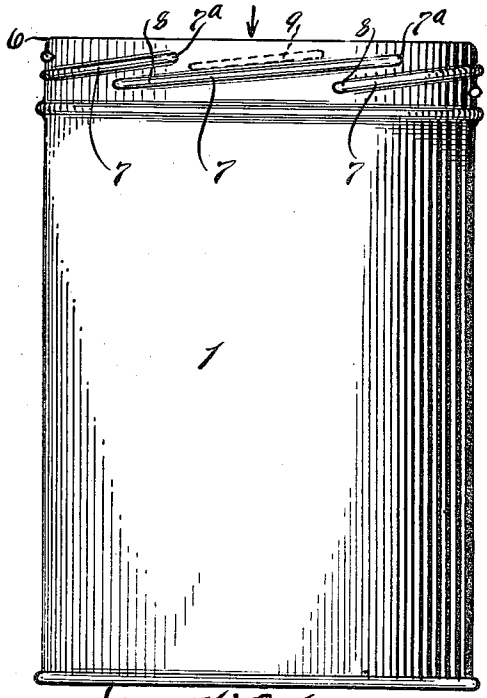


Fig. 1.

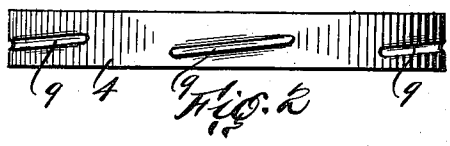


Fig. 2.

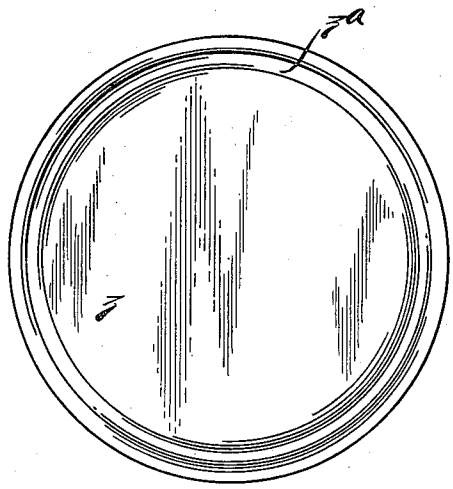


Fig. 3.

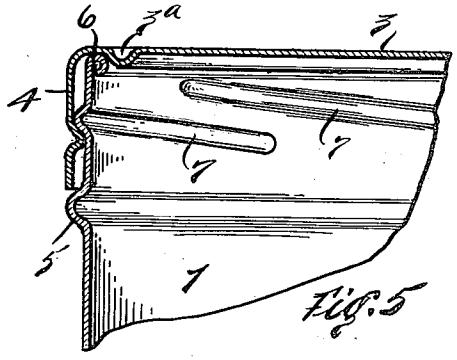


Fig. 5

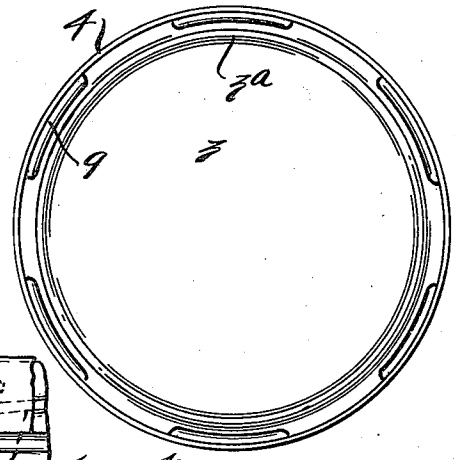


Fig. 4.

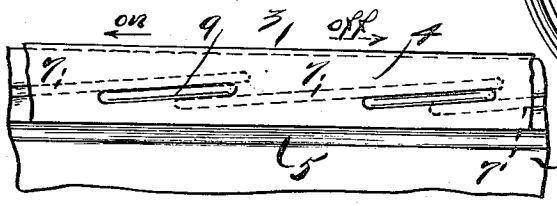


Fig. 6.

Inventor
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By his Attorney
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UNITED STATES PATENT OFFICE.

CHARLES GUERITEY, OF PASSAIC, NEW JERSEY, ASSIGNOR TO PASSAIC METAL WARE CO., OF PASSAIC, NEW JERSEY, A CORPORATION OF NEW JERSEY.

CONTAINER.

Application filed March 11, 1922. Serial No. 542,845.

To all whom it may concern:

Be it known that I, CHARLES GUERITEY, a citizen of the United States, and resident of Passaic, in the county of Passaic and State of New Jersey, have invented certain new and useful Improvements in Containers, of which the following is a specification.

This invention has reference to improvements in containers having detachable covers, and has particular reference to containers commonly called "tin cans".

One object of my invention is to provide improved means, cooperative between the cover and the body of the container, to cause the cover to remain firmly attached to the body without danger that threads of the cover flange will slip over threads of the body, said threads not only serving to force the cover upon the body but also to cause the cover to be released from the body, when the cover is rotated in the appropriate direction.

A further object of my invention is to provide the cover with stiffening means that will cooperate with the edge of the body affording increased sealing surface between the cover and the edge of the body as well as bracing or stiffening said edge when the cover is in place on the body.

My invention also comprises novel details of improvement that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a side view of my improved container body;

Fig. 2 is a similar view of the cover;

Fig. 3 is a plan view of the cover;

Fig. 4 is an inverted plan view of the cover;

Fig. 5 is a detail section of the parts assembled, and

Fig. 6 is a fragmentary detail.

Similar numerals of reference indicate corresponding parts in the several views.

The numeral 1 indicates the body of the container, which may be generally of the usual rolled type customary in making tin cans, having a closed bottom 2 which may be applied by seaming the bottom and body together, or in any other suitable way.

At 3 is the cover shown provided with a flange 4 to fit around the open end of the body. Adjacent to the open end of the body the same is shown provided with a bead 5 serving to stiffen the body. The outer edge of the body at the open end is shown rolled at 6 to provide a smooth edge or rim to cooperate with the cover. Adjacent to the open end the body is provided with angularly disposed spacer threads 7, which may be made by pressing the material of the body outwardly. The threads 7 each extend for a suitable distance around the body, and the end portions of adjacent threads overlap, or extend one beyond the other, providing spaces 8 therebetween, the mid-portions of the threads being exposed free from one another. The flange 4 of the cover is provided with spaced threads 9, which are shorter than the threads 7 and have substantially the same general angular position as the threads 7 when the body and cover are assembled. The threads 9 may be made by pressing the metal of flange 4 inwardly.

The overlapping threads 7 provide a uniform periphery on the body, serving to stiffen the same adjacent to the open end, and prevent the cover flange from getting into unfilled spaces in the body, further preventing the accumulation of surplus metal in case the edge of the cover should be pressed with the thumbs or fingers just before the cover is screwed tightly on the body. When the cover is applied on the body the threads 9 of the cover flange bear against the corresponding threads 7 at their mid-portions between the ends of the adjacent threads which are correspondingly above and below the first named threads, and then the cover is rotated, as to the left in Fig. 1, to cause its threads 9 to engage the end portions of the threads 7, as at 7^a, whereby the cooperating threads 9 and 7 cause the cover to be fitted firmly against the open end or edge 6 of the body. The construction is such that when the cover engages the open end or edge of the body the threads 9 will be between adjacent overlapping ends of spaced threads 7, substantially as shown in Fig. 6, whereby the cover will be snugly retained on the body and contact between the body end 6 and the cover will be maintained. When the cover is to be removed it will be rotated in a reverse direction and the threads 9 will slide along the corresponding lower threads 7, whereby the cover will be moved outwardly ready for convenient removal.

The top portion of the cover is shown provided with an annular indentation or groove 3^a adjacent to its outer edge, but spaced suitably therefrom, in such position that the metal of such groove forms an interior annular projection, the outer side of which bears against the rolled edge or rim 6 of the body. Such projection serves not only to stiffen the cover but to afford an increased sealing surface along the open end of the body by contact of projection 3^a with rim 6 additional to the contact of the main surface of the cover with the outer edge of the body. The inwardly disposed projection 3^a of the cover by bearing against the open end of the body and within it braces such open end against inward pressure, thereby materially stiffening the body when the cover is in place and screwed tight on the body.

Having now described my invention, what I claim is:

1. A container comprising a body having a flexible open end and provided with screw threads adjacent to said end, and a cover having a flange provided with means to cooperate with said threads, said cover having inwardly inclined projecting means to fit within and engage the open end of the body during the functioning of the aforesaid thread means thereby to automatically tighten against the inside of the said flexible open end and thus maintain an efficient relation between the thread means.

2. A container comprising a body having a flexible open end and provided with screw threads adjacent to said end, said body being provided with an inwardly disposed sealing surface at its open end, and a cover having a flange provided with means to cooperate with said threads, said cover having inwardly inclined projecting means having a sealing surface to fit within and engage said sealing surface at the open end of the body during the functioning of the aforesaid thread means thereby to automatically tighten against the inside of the said flexible open end and thus maintain an efficient relation between the thread means and maintain said sealing surfaces in engagement.

3. A container comprising a body having a flexible open end and provided with screw threads adjacent to said end, the end portions of adjacent threads overlapping one another and being spaced apart, and a cover having a flange provided with means to cooperate with said threads and to enter the spaces between the overlapping ends of said threads, said cover having inwardly inclined projecting means to fit within and engage the open end of the body during the functioning of the aforesaid thread means thereby to automatically tighten against the inside of the said flexible open end and thus maintain an efficient relation between the thread means.

Signed at Passaic, in the county of Passaic and State of New Jersey, this 9th day of March, A. D., 1922.

CHARLES GUERITEY.