

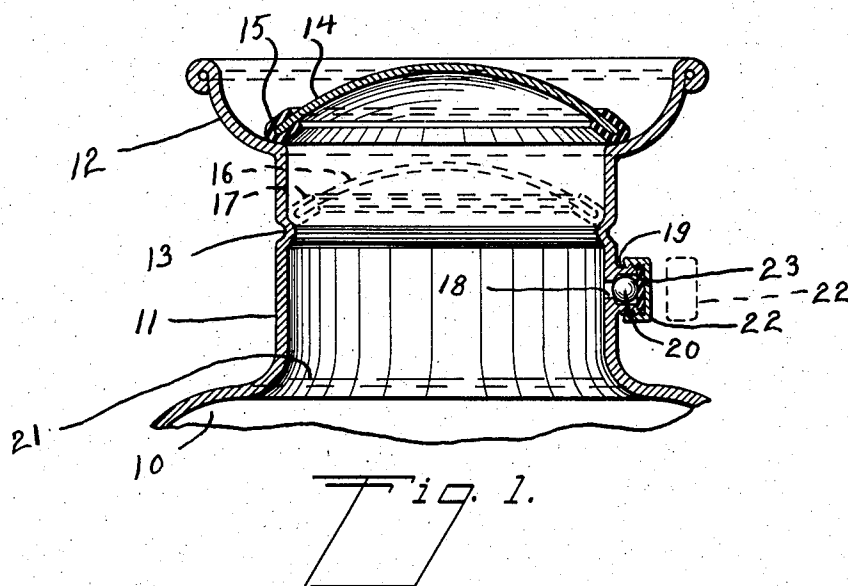
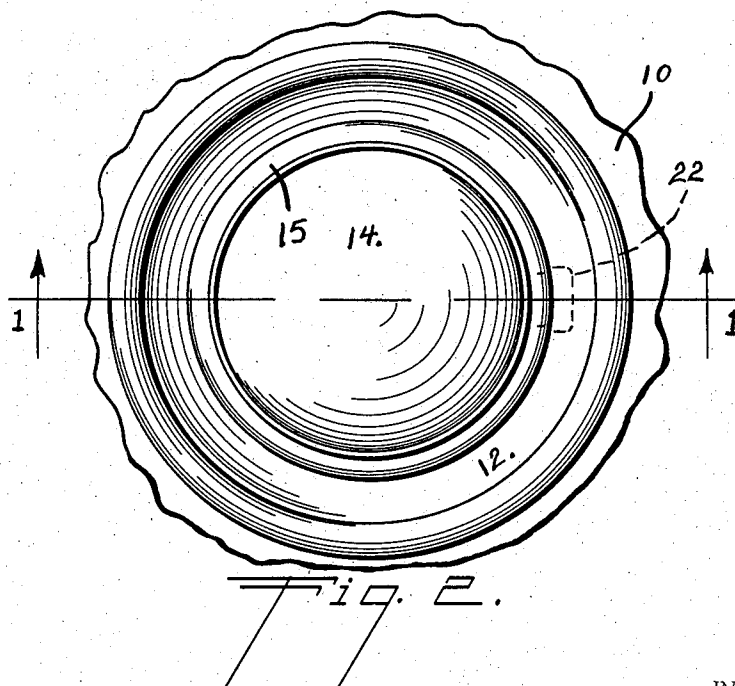
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CONTAINER

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2,146,536

CONTAINER

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2 Claims. (Cl. 220—44)

My invention relates to containers generally and particularly to containers having means for closing same and exhausting the air therefrom to create a vacuum therein.

My container is particularly adapted for storing and shipping cream and the like. Such foods as cream are usually shipped in standard cream cans and cream shipped in cans of such character often becomes overheated and spoils, particularly if not kept cool.

It has been found that cream and other foods may be preserved for considerable periods of time in containers from which the air has been exhausted, even at temperatures at which such food would otherwise ordinarily spoil.

It is therefore an important object of my invention to provide a container from which the air may be exhausted and a vacuum created and maintained therein.

Another object of my invention is to provide a container of this character wherein the seal may be readily broken when it is desired to open said container.

A still further object is to provide a container of this character of simple durable construction and of low manufacturing cost.

Numerous other objects and advantages of this invention will be apparent as it is better understood from the following description, which taken in connection with the accompanying drawing, discloses a preferred embodiment thereof.

Referring to the drawing:

Figure 1 is a vertical section through the neck of the container showing the sealing disc and valve for exhausting the air therefrom.

Figure 2 is a plan view of the same.

Referring more particularly to the drawing, reference numeral 10 indicates the upper portion of the container, the remaining portion of which is not shown. The container is provided with an outwardly extending neck 11 terminating in an outwardly and upwardly curved flange 12. A shoulder 13 is rolled inwardly of the neck immediately of the ends thereof. A disc 14 for closing the neck is provided with an annular seal 15, said seal being substantially U-shaped in cross section and received marginally on the disc. The disc is preferably concavo-convex and bulges outwardly. Should it be desired, a disc 16 may be employed within the neck for closing same. Said disc is preferably concavo-convex and provided with a seal 17, said seal being U-shaped in cross section and marginally received on the disc 16. The disc 16 is of such size as to be received within the neck 11 and adapted to marginally abut against the shoulder 13. An opening 18 is provided in the neck and about the opening 18 is an outwardly extending sleeve

19 within which is received a ball 20, said ball being of slightly smaller diameter than the diameter of the sleeve 19 and of greater diameter than the depth of said sleeve. Either disc 14 or disc 16 may be used in closing the container, but both need not be used. The concavo-convex shape of the discs causes same to spread outwardly as air is exhausted from the container, thereby forming a more effective seal for closing the container. The opening 18 is between the disc closing the neck and the contents level 21 of the container. Air is exhausted through opening 18 by any suitable vacuum pump the ball 20 serving to close the opening 18 after the air is exhausted from said container. Air from the container passes through the opening 18 and about the ball 20.

After the air has been exhausted from the container, a cap 22 is threadably attached to the sleeve 19, said cap is provided with a rubber seal 23 at the closed end thereof, and when the said cap is screwed tightly on to the sleeve, the ball is forced inwardly of the free end of the sleeve to more effectively close the opening 18 and to prevent accidental displacement of the ball.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description and it will be apparent that various changes may be made in the form, construction, and arrangement of the parts without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

Having thus described my invention what I claim is:

1. In a device of the class described, the combination of a container having an inwardly extending shoulder, a removable concavo-convex outwardly bulging disk, a marginal gasket on said disk, said gasket being substantially U-shaped in cross section, said disk being received in sealing association with the shoulder in the neck, and valve means above the content level of the container and below the disk adapted to permit exhaustion of air from the container.

2. In a device of the class described, the combination of a container having an inwardly extending shoulder therein, a removable concavo-convex disk bulging outwardly and adapted for slight radial expansion upon evacuation of air from the container, a marginal gasket on said disk extended about the marginal portion thereof and adapted for lateral sealing association with the neck as well as downward association with the shoulder, and valve means adapted to permit evacuation of air from the container.

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