July 4, 1933. B. HELLER 1,916,859

CONTAINER

Filed May 15, 1930

Fig 1

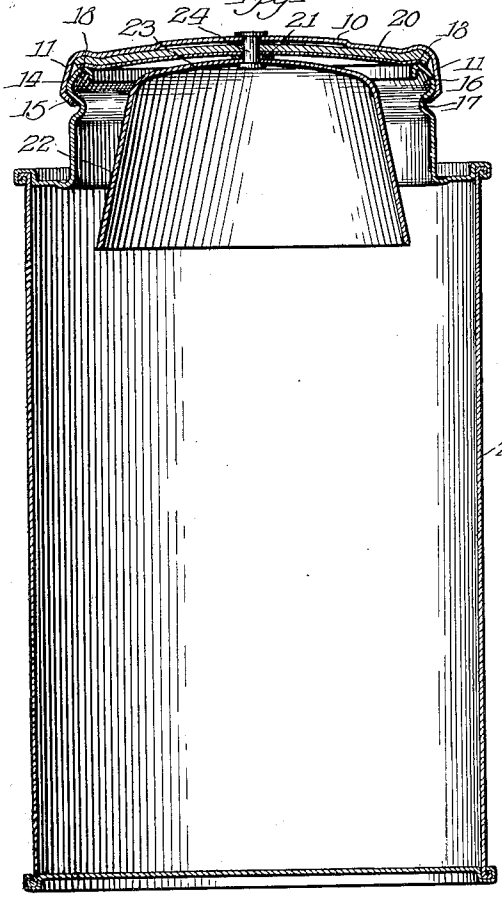


Fig 2.

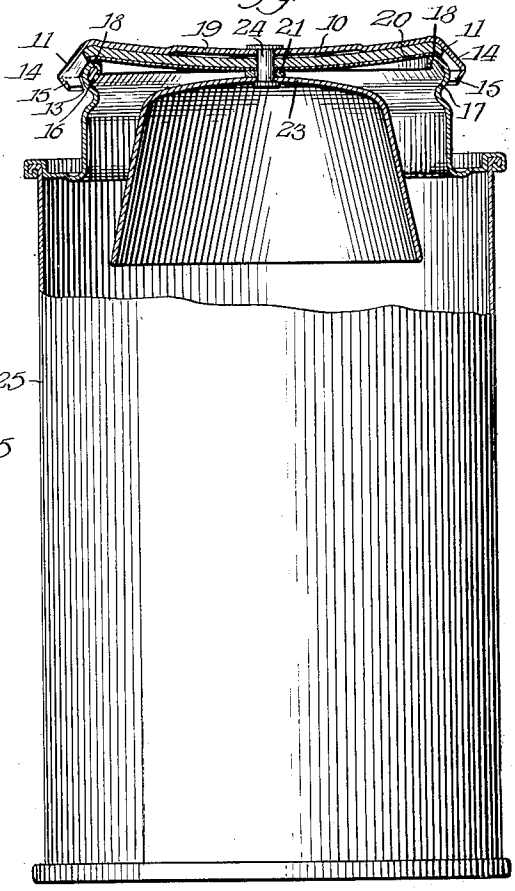
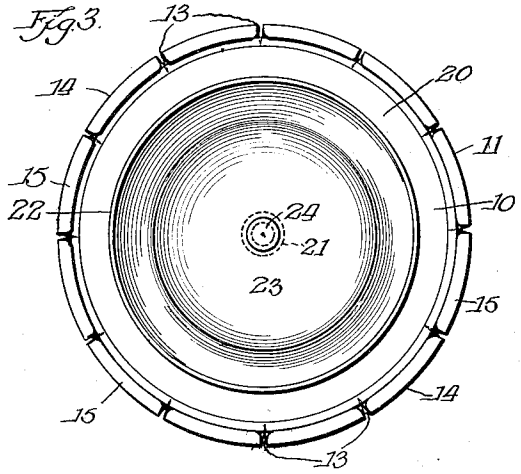


Fig 3.



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UNITED STATES PATENT OFFICE

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CONTAINER

Application filed May 15, 1930. Serial No. 452,529.

This invention relates to containers having snap closures and aims to provide a container in which such a closure is equipped with an accessory receptacle.

The nature of the invention may be readily understood by reference to one illustrative construction embodying the invention and illustrated in the accompanying drawing.

In said drawing:

Fig. 1 is a vertical section of the container in which the closure is shown engaging the mouth of the container;

Fig. 2 is a similar section in which the closure has been flexed to release the container; and

Fig. 3 is an inside plan view of the closure.

The illustrative closure is of the type in which distortion or flexure of the closure top causes the closure skirt or flange to release or grip the mouth of the container. Closures of this character are well known and will be described here only generally. Such closures comprise a flexible metal top 10 having a depending flange or skirt 11 slit or notched at a plurality of spaced points 13 to provide independent container engaging elements 14. These in the present case are bent adjacent their free edges to provide inwardly projecting flanges or gripping elements 15. The closure engages a container mouth 16 having an inwardly inclined surface 17 which serves as a cam to force the closure into tight engagement with the rim 18 of the mouth under the gripping action of the elements 15. When the top is bowed upwardly slightly as in Fig. 1, the closure skirt is in position to grip the container; but when the top is pressed downwardly to distort it into a concave form, as indicated at 19 in Fig. 2, the closure skirt 11 is caused to spread and release the container. In most types of closures of this character the closure will remain in the condition illustrated in Fig. 2 until the closure skirt is pressed inwardly so as to cause the top 10 to snap out into the position illustrated in Fig. 1, in which position the closure again grips the container.

In the present case a gasket made of layers 20 of coated or other waterproofed cardboard serves to maintain a tight seal. The satisfactory attachment of accessories to closures of this character has been difficult because of interference with flexibility of the closure top. Anything which interfered with its free flexibility rendered it either inoperative or operative with difficulty.

I have found that it is possible to attach an accessory to the top if clearance be allowed between the accessory and the top so as not to interfere with the flexing of the latter. The bottom surface of the accessory is designed so as to be spaced from the top at all times (except for a small centrally located attaching area), and is connected with it in such a manner as not to interfere with flexing thereof. Such spacing or clearance is effected in the present instance by interposing a spacer in the form of a washer 21 between the receptacle and the inner face of the closure top. An appropriate form of rivet 24 connects the receptacle to the closure top at the center of the latter. The receptacle, which in the present case is shown in the form of a cup 22, has its bottom 23 curved to increase the aforesaid clearance. As will be seen from Figs. 1 and 2 the connection of the receptacle to the top does not in any way interfere with a free flexing of the latter. The form of the receptacle may, of course, be varied to suit particular requirements. In the present case it is used as a measure for the pulverized or granular contents of the container 25. In other instances the receptacle may be of a form to hold means for treating the contents of the receptacle, such as humidifying or moisture absorbing means.

It is thus possible to adapt this type of closure (inherently of great utility) to a field at use in which it has heretofore not been available.

Obviously the invention is not limited to the details of the illustrative device since these may be variously modified. Moreover, it is not indispensable all features of the invention be used conjointly since various features may be advantageously used in different combinations and sub-combinations.

Having described my invention, I claim:

1. In a container of the character described the combination comprising a metallic snap

closure having a flexible top adapted to flex substantially to permit application and removal of the top, an accessory receptacle carried on the under face of said closure, and means connecting said receptacle with the flexible top of said closure adjacent its center and contacting therewith in a relatively small area, said receptacle being spaced from said closure top around the region of connection to allow the top freedom to flex.

2. In a container of the character described the combination comprising a metallic snap closure operative by flexure of its top and having a flexible top which is adapted to have a substantial change in its curvature, and an accessory receptacle carried on the under face of said closure, and a device for connecting said receptacle to the flexible top in a limited area adjacent its center, the adjacent faces of said receptacle and closure top being spaced at all points except the point of connection, so as not to interfere with the free flexure of the top.

In witness of the foregoing I affix my signature.

BENJAMIN HELLER.