Oct. 21, 1958 A. G. LEHMANS-LEROY 2,857,067

CONTAINERS

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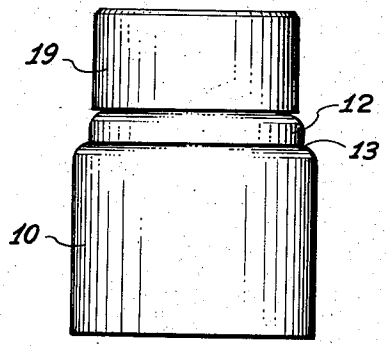


Fig. 1.

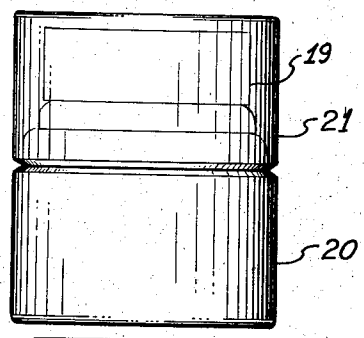


Fig. 4.

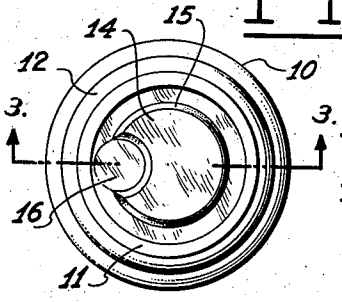


Fig. 2.

Fig. 5.

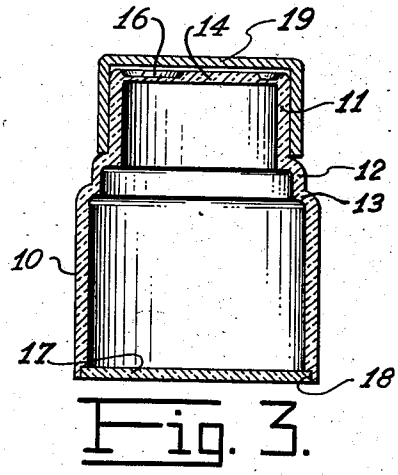
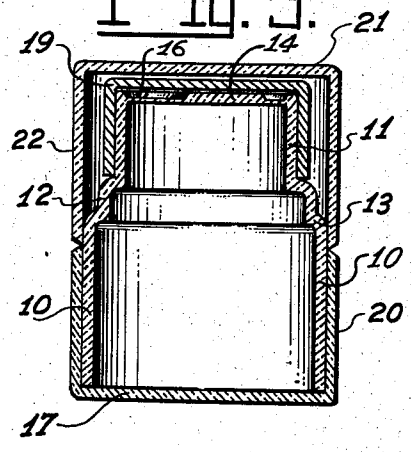


Fig. 3.



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2,857,067

CONTAINERS

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1 Claim. (Cl. 215—2)

This invention relates, in general, to bottles or containers for products or substances of all kinds, such as pharmaceutical items, beauty aids and hygienic goods, in which cases the containers or bottles are characterized because the opening is sealed with a hermetical stopper or cover which forms part of the container and has a breaking line to allow its removal. At the same time, the bottom of the bottle is formed by an independent piece which is sealed to the lateral walls of the bottle, sometimes on the inside of the same, in which case an adequate step is provided on these walls; or again, the sealing may be done on the exterior of the same, in which case the piece which forms the bottom has, in turn, vertical panels of its own. The bottle also furnishes a second component, an upper stopper or cover for permanent use which allows it to be closed when the hermetical layer which seals the opening of the bottle has been taken off.

When the bottom of the bottle is adhered to the lateral walls of the same on the outside, the combination of this bottom with the permanent stopper or cover may form a truly useful container, once the bottle has been emptied of its original contents. To obtain this one has only to cut, according to instructions upon the indicated breaking line, the upper part of the bottle.

Therefore, one of the objects of this invention is to provide a bottle or container for products of all kinds of substances, having the opening of the bottle sealed with a stopper or cover which forms part of the bottle itself, the bottle being thus hermetically sealed, and so having to be filled with the desired contents through the bottom of the same, before placing the piece which constitutes the bottom of the container.

Still another object of this invention is to provide a bottle or container which, aside from the peculiarities already mentioned, has also the characteristic that its permanent stopper or cover, combined with the piece which forms the bottom, gives a useful general container by simply taking off a part of the bottle, by removing the part indicated by the breaking line or mark, once the bottle has been emptied of its original contents.

The objects and characteristics of the bottle to which this invention refers, shall be made clearly apparent during the following description, as well as with the adjoining drawings which illustrate the same and in which identical reference numbers are used to indicate the same parts in the five figures presented.

In these drawings:

Figure 1 is an elevation view of a container built according to this invention in one of its conceptions in which the bottom piece of the container is adjusted and sealed to the lateral walls of the same, on the inside.

Figure 2 is a plan view of the same container illustrated in Figure 1.

Figure 3 is a vertical cross-sectional view of the container illustrated in Figure 1 taken on line 3—3 of Figure 2.

Figure 4 is an elevational view of a container built on the lines of this invention, according to the method in which the permanent cover and the piece forming the bottom of the container are combined to form a useful vessel, after this has been emptied of its original contents, and

Figure 5 is a vertical cross-sectional view of the container illustrated by Figure 4.

Before making a detailed description of the invention, in reference to the adjoining drawings it must be noted that these drawings illustrated only as an example two preferred forms of effecting the aforementioned invention, which is no manner can be considered as being limited to the specific details illustrated and described therein. Hence, in practice as many variations and modifications can be introduced, especially inasmuch as refers to form or presentation, as may be considered convenient, with no limitation other than that which the claim may be said to contain.

As shown by the drawing, relating to Figures 1 and 3, the bottle or container, preferably made out of plastic material, includes the body **10**, of the bottle itself, preferably cylindrical, but which, can of course, be made into any desired form, with its corresponding neck **11**, having between the body **10** and the neck **11**, a step **12**, upon which a line circling this section **13**, allows breaking to achieve the ends indicated further on. This bottle also includes a closing section or hermetrical cover **14**, which forms a unit with neck **11**, and which is provided with a circular breaking line **15** having a breaking point **16**, to allow the consumer to easily remove the cover or hermetical closing **14**, whenever desired.

The bottle or container is also provided with a bottom part or component **17**, which after said container has been filled with the product it is supposed to contain, is fixed onto a lower opening conforming to the body of the container **10**, placed on step **18** provided for this end, to which it is sealed, preferably with an adhesive or cement adequate for these materials.

Finally, the container also has a permanent cover **19**, which can be adjusted upon the neck **11** of the bottle.

According to the other manner of effecting this invention illustrated in Figures 4 and 5 of the drawings, the bottle provides a main body **10**, a neck **11** and between these two, an indention or step **12** indicating the corresponding breaking line **13**, having its upper opening provided with a sealing component or hermetical cover **14**, which forms part of neck **11** and which has its corresponding breaking line **15** and breaking point **16** to enable its simple removal. However, in this case the closing cover **17** of the bottom of the container is provided with a vertical border **20** circling the body of the container **10** on the outside, being sealed to the same preferably by adhesive or cement. Furthermore, the permanent cover component, which together with the bottom piece determines the possibility of using the bottle as a container, once having disposed of its original contents, is made up of a cover **21** with the same diameter and interior and exterior depth **22**, which corresponds to the lateral border **20** of the cover component.

When so desired, aside from this permanent cover **21**, another permanent cover **19** can be provided for the container, similar to the one used in the manner previously described.

Manner of employment of the container

When the cover or closing component of the upper part of neck **11**, is joined to the neck itself, the container is filled with the desired contents through its lower opening, after which closing component **17** is placed and sealed. Once this is done, the permanent closing component **19** is adjusted and, in the modification shown in

Figures 4–5 also the closing component **21**, thus rendering the container ready to be placed on the market.

When the consumer wishes to extract the contents of the bottle, he shall insert by pressure a pointed instrument of any sort, in breaking point **16**, making afterwards a slight leveling motion upon neck of bottle **11**, so as to remove the closing component or hermetical cover **14**, placing afterwards the permanent cover component **19**.

Once the original contents of the bottle have been removed, if this has been constructed according to illlustrations in Figures 4 and 5 of the drawings, then a cut may be made upon the body of the container with a proper instrument, following line **13** marked by step **12**, so that all the upper part of the bottle can be discarded, and when the permanent cover component **21**, is placed accordingly, it can be used, for instance, to keep cigarettes, toothpicks, etc., as the size of the original container may allow.

Having thus described my invention what I claim is:

A bottle-like container comprising a one-piece hollow body open at the bottom and forming side and top walls, said side walls including an enlarged tubular lower portion and a reduced tubular upper neck portion with an intermediate stepped portion forming a breaking line around said side walls at the upper end of said lower portion, said portions all being concentric, said top wall having a breaking line of reduced thickness around the edge thereof substantially contiguous with the inner surface of said neck portion and a small circular puncturing area of reduced thickness tangentially contiguous with said latter breaking line to facilitate removal of the complete top wall, a cup shaped bottom portion having a tubular wall telescopically surrounding said body lower portion and sealing therewith, said bottom portion side walls having a height less than that of said body lower portion, a cover having a tubular portion telescopically surrounding said neck portion and of a height to rest on said intermediate stepped portion, and a second cover having a tubular portion telescopically surrounding said body lower portion with its lower edge resting on the upper edge of said bottom portion and of a height to completely enclose the upper portion of said body and said first mentioned cover.

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