

Protector for containers
DESCRIPTIVE MEMORY
OBJECTIVE OF THE INVENTION

5 The aim of the present application of utility model is the registration of a protector for containers incorporating notable novelties and advantages.

 More specifically, the invention relates to a protector for containers, especially cans with an essentially cylindrical form, said protector comprising an upper protector element covering the upper part of the container and a lower ring arranged peripherally around the container, as defined in the preamble of claim
10 1, improving the hygienic conditions of the container, and hence for the user's health.

BACKGROUND OF THE INVENTION

 At present protector elements for mounting on containers are known, in particular containers commonly known as cans, with an aim to providing improved hygienic conditions to the area having the
15 access opening to the inside contents, with respect to the current's presentation of said containers at commercial outlets, in which no kind of protection is available.

 However, in practice it is noted that known protectors do not provide a sufficiently satisfactory hygiene of the area to be contacted by the lips of a user when drinking a beverage that is directly contained inside a container.

20 In addition, the applicant is not aware of the existence of an invention relating to a protector that has the characteristics described herein.

DESCRIPTION OF THE INVENTION

 This invention has been developed with an aim to provide a protector for containers that solves the
25 abovementioned disadvantages, also providing other, added advantages which will become obvious from the following description herein.

 Therefore, it is an aim of this invention to provide a new protector for containers, especially for cans with an essentially cylindrical form, comprising an upper protector element covering the upper part of the container and a lower ring arranged peripherally around the container, and which is characterized essentially
30 by the fact that said upper protector element includes a ring pull projecting towards the outside in a downwards direction from the body of said upper protector element and having a cambered form following the contour of the container.

 Preferably, both the upper protector element and the lower ring are made of a biodegradable pliable plastic material, thus ensuring its degradation in a relatively short time and hence being environmentally
35 friendly. Thanks to the above described characteristics, a protector is obtained with a low manufacturing cost, which has a higher level of hygiene than the protectors known in the art, as the contour of the can that is usually in contact with the user's lips when drinking directly from the container is protected from dirt in a simple and practical way. In addition, the described protector does not imply any discomfort or bother for the user when consuming the beverage contained inside the container. Advantageously, the upper protector element
40 comprises a circumferential recessed section near the rim of the protector element, enabling an easy stacking of the cans each on top of one another for their storage by taking advantage of the flange that these containers have on their base.

 It will be obvious to any person skilled in the art that there is the possibility that the protector defined by this invention forms part of a configuration made of multiple protectors joined together for example by ribs,

to be applied to a group of cans arranged in a two-row configuration with a predetermined number of containers, such as is often seen in commercial outlets for the sale thereof.

In another particularly preferred embodiment of the invention, the lower ring has a body that is substantially truncated-cone shaped and that adapts to the container's body to be mounted, the opening being provided at least of a rib joining the two lateral sections of the opening. Said two lateral sections of the opening are joined by two ribs that run parallel to each other. On the other hand, the lower ring has an opening in which the ring pull can be placed snugly, whose dimensions coincide with those of said opening.

Other features and advantages of the protector for containers which is the subject matter of this invention will become obvious from the description of a preferred, though non exclusive, embodiment, which is illustrated by means of a non limiting example in the attached drawings, in which:

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1.- Perspective view of a first preferred embodiment of the protector for containers according to the invention.

Figure 2.- Perspective view of the protector represented in the above figure placed on a can in an open condition.

Figure 3.- Perspective view of a second preferred embodiment of the protector for containers according to the invention.

Figure 4.- Perspective view of the protector represented in figure 3 placed on a can in an open condition.

Figure 5.- Perspective view of the protector on a can-like container in a closed condition, and

Figure 6.- Perspective view of a third embodiment of the protector for containers according to the invention in an open position.

DESCRIPTION OF A PREFERRED EMBODIMENT

As shown in figures 1 and 2, attached, a first embodiment of the protector for containers of the invention, especially for can-like containers with a substantially cylindrical shape, denoted in a general way by the reference number 1 comprises an upper protector element 2 covering the upper part of the container, and a lower ring 3 arranged snugly around the rim of the container 4, which is joined to the upper protector element 2 by means of a hinge section 8. Both the upper protector element 2 and the lower ring 3 are made of a biodegradable pliable plastic material with a polyethylene or polypropylene core together with several additives that favour oxo-biodegradation and hence the natural degradation of the protector described herein.

Said upper protector element 2 incorporates a ring pull 5 projecting towards the outside in a downwards direction from the body of said upper protector element 2 and having a cambered form following the contour of the container.

It is noted that the union between both elements forming the protector 1 is such that, in a closed condition, it provides tight closure, preserving optimal properties of the inside liquid, especially for carbonated beverages by preventing the exit of gas or of the liquid once the ring pull provided on the can-like container has been opened.

In a second embodiment of the invention shown in figures 3 and 4, elements equivalent to those above have the same number references; the lower ring 3 has a body that is substantially truncated-cone shaped, the opening being provided with a upper rib 9 section joining the two lateral sections of the opening. In this way, the ring pull 5 can be snugly fitted on the opening, whose dimensions coincide with those of the opening provided on the lower ring 3.

This protector 1 of the invention, in addition to providing hygiene protection previous to the opening of the container, for example through the ring pull 7 provided on the upper base of the can container, provides hygiene and tightness once the container has been opened, i.e. once the ring pull has been pulled out, so that the user can store inside the beverage for as long as convenient without worsening the conditions of the inside liquid to be consumed.

Additionally, and as can be seen more clearly in figure 5, the upper protector element 1 comprises a circumferential recessed section 10 near the rim 11 of the protector element, enabling an easy stacking of other cans of equal or similar configuration, so that the containers can be stacked in the same way as if they had not the hygiene seal of the invention.

Finally, in figure 6 a third embodiment of the invention can be seen in which the two sections of the opening can be joined by two ribs 9 and 10 that run parallel to each other. The lower rib 10 can be used jointly with the ring pull 5 as safety seal by the application of, for example, breakable joining points arranged between the upper rim of the lower rib 10 and the lower rim of the ring pull 5. In this way, the consumer has the guarantee that the upper protector element 2 has not been tampered with. In this case, the upper rib corresponds to a section of the lower ring 3 itself.

The details, shapes, dimensions and other accessory elements, as well as the materials used in the manufacturing of the protector for containers of the invention can be conveniently replaced by other technical equivalents without departing from the spirit nor scope of the invention as defined by the following claims.

CLAIMS

1. Protector for containers, especially for can-like containers with a substantially cylindrical form, comprising an upper protector element covering the upper part of the container and a lower ring arranged peripherally around the container connected to the upper protector element by means of a hinge section, **characterized** by the fact that said upper protector element includes a ring pull projecting towards the outside in a downwards direction from the body of said upper protector element and having a cambered form following the contour of the container.
2. Protector for containers according to claim 1, characterized by the fact that the lower ring is substantially truncated-cone shaped, the opening being provided with at least a rib joining the two lateral sections of the opening.
3. Protector for containers according to claim 2, characterized by the fact that the two lateral sections of the opening are joined by an upper and a lower rib that run parallel to each other.
4. Protector for containers according to claims 1 and 2, characterized by the fact that the lower ring has an opening in which the ring pull can be fitted snugly, whose dimensions coincide with those of said opening.
5. Protector for containers according to claims 2 and 4, characterized by the fact that the height of the ring pull coincides with the height of the truncated-cone shaped wall of the ring.
6. Protector for containers according to claim 1, characterized by the fact that the ring pull is manufactured as an integral part of the upper protector element.
7. Protector for containers according to claim 1, characterized by the fact that the upper protector element and the lower ring are made of a biodegradable pliable plastic material.
8. Hygiene seal for containers according to claim 1, characterized by the fact that the upper protector element comprises a circumferential recessed section near the rim of the protector element.