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(54) Title: ONE-PIECE PACKAGING FOR CONED ICE CREAM

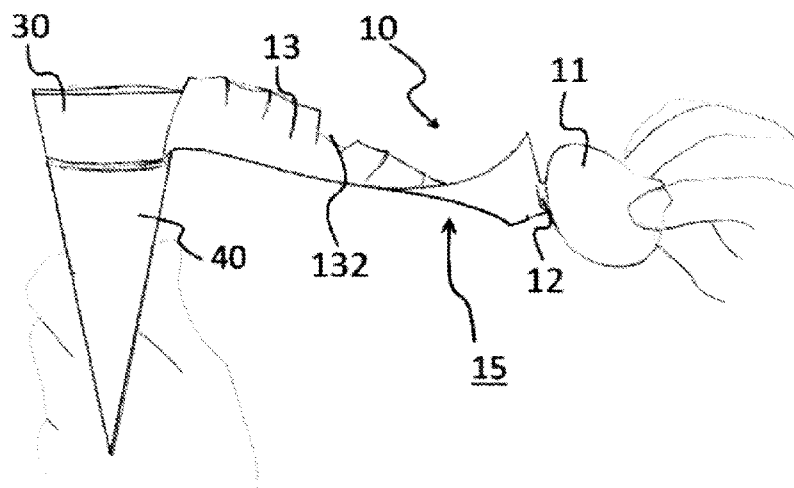


FIG. 4

(57) Abstract: The invention relates to a cone (40) on which the ice cream (30) is placed, a lid (11) covering the upper portion of the said ice cream (30), a coned ice cream packaging (50) surrounding the cone (40) and the ice cream (30), characterised in that it comprises a one-piece packaging (15) containing an upper packaging (10) having a holistic structure with the said lid (11).

**DESCRIPTION**  
**ONE-PIECE PACKAGING FOR CONED ICE CREAM**

**Technical Field**

5

The invention relates to a lid placed on the open top of the ice cream and the cone, and coned ice cream packaging having a holistic structure surrounding the cone and becoming a one-piece waste product.

10 

**State of Art**

Nowadays ice creams are packaged, preserved in deep freezers and sold to customers at points of sale. During this sale, ice creams are preserved within packaging until they reach the consumers from the manufacturing site.

15

Ice creams sold in a cone, known as comet ice cream, have a cone and a packaging surrounding the cone circumferentially. This packaging consists of two separate parts, one part surrounding the cone and the other part surrounding the upper portion of the cone/ice cream. The packaging process is effectuated through folding the packaging surrounding the cone over the lid.

20

In the prior art, the portion surrounding the cone is pulled off primarily, then the lid on top is taken off in order to open the packaging of the coned ice cream. This makes the opening process become difficult and causes two processes to be performed. The first process contains the steps of opening the surrounded paper packaging and then lifting the lid.

25

In the known state of the art, as the cone packaging is being removed, the hand comes in contact with the ice cream. Following this contact, the need to clean the hand arises. When there are no means to clean it, a hygienically negative situation also arises.

30

In the known state of the art, after the packaging is opened, it becomes two pieces and thus a two-piece litter is created. In today's terms, the utilisation of a non-environmentally friendly product is in question.

In the known state of the art, as the packaging process of the cone with two pieces contains two separate process steps, it highly affects the production process and cost.

5 In the known state of the art, while the packaging surrounding the cone is being removed, it is either removed completely or torn randomly. When it is completely removed, the cone comes in contact with the hand, causing hygienically negative outcomes.

10 Various embodiments related to the ice cream cone packaging mentioned as a result of research in literature are presented. One thereof is the utility model, titled "Cone packaging lid" having the application number 2011/10678. In the summary of the invention classified as B65D 85/78, the following is disclosed: "The invention relates to the formation of air supply sections on the lid in order to eliminate the obstruction of the foldings closing due to the formation of pressure during the closing of the packaging lid  
15 caused by the air remaining between the packaging and ice cream during the packaging process of ice creams sold in cones."

In the aforementioned application, air remaining within the ice cream was prevented. However, when the lid and the other packaging is packaged separately onto the coned  
20 ice cream, this application may be shown as an example of the aforementioned disadvantages.

Consequently, advances are being made towards developments parallel to the developing technology in coned ice cream packaging, therefore there is a need for new  
25 models to eliminate the aforementioned disadvantages and to provide a solution to the present systems.

### **Object Of The Invention**

30 The invention relates to coned ice cream packaging created through being inspired by the present states and developed for resolving the mentioned disadvantages and providing additional advantages.

The object of the invention is to enable the removal of the packaging from the cone in a single process with the packaging consisting of one piece. Thus, making the packaging removal process easier.

- 5 Another object of the invention is to make environmental cleaning easier and to obtain an environmentally friendly litter by obtaining a one-piece litter with the one-piece packaging.

- 10 A further object of the invention is to prevent the contact of the ice cream litter with the hand by means of the opening thereof with one process. Thus, eliminating the hand cleaning process while eating the ice cream.

- 15 Another object of the invention is to enable the simple removal of the upper packaging surrounding only the ice cream while taking off the packaging by binding the two different packagings surrounding the ice cream and the cone together with a crimped structure. Thus, enabling a hygienic environment while eating the ice cream via keeping the lower packaging around the handheld cone.

- 20 In order to carry out the objects mentioned above, a coned ice cream packaging enabling the binding and the removal of the packaging surrounding the lid placed on the ice cream and the cone in a single move has been developed.

- 25 The structural characteristic features and all the advantages of the invention will become more apparent from the following drawings and the following detailed description referring to the accompanying drawings. Therefore, the assessment should be made by taking these drawings and the detailed description into account.

### **Brief Description of the Drawings to Aid the Understanding of the Invention**

- 30 Figure 1 is a perspective view of the cone packaging of the present invention surrounding the coned ice cream.

Figure 2 is a two dimensional rear view of the cone packaging of the present invention surrounding the coned ice cream.

Figure 3 is a representative view of the first unwrapping process of the cone packaging of the present invention.

Figure 4 is a representative view of the final step of unwrapping the cone packaging of the present invention.

Figure 5 is a two dimensional side-view of disassembling the upper packaging.

Figure 6 is a two dimensional side-view of the upper packaging fixed together

Figure 7 is a two dimensional upper-view of disassembling the upper packaging.

Figure 8 is a two dimensional upper-view of the upper packaging fixed together.

## Reference Numbers

10. Upper packaging

11. Lid

111. Opening portion

12. Lid binding portion

13. Side portion of the upper packaging

131. Crimped portion

132. Opening portion gap

14. Packaging tearing lines

15. One-piece packaging

20. Lower packaging

30. Ice cream

40. Cone

50. Coned ice cream packaging

## Detailed Description Of The Invention

The invention relates to a cone (40) on which the ice cream (30) is placed, a lid (11) covering the upper portion of the said ice cream (30), a coned ice cream packaging (50) surrounding the cone (40) and the ice cream (30), characterised in that it

comprises a one-piece packaging (15) containing an upper packaging (10) having a holistic structure with the said lid (11).

5 The ice cream (30) is placed into the cone (40). The upper portion of the said ice cream (30) is covered with a lid (11) and around thereof is wrapped with a coned ice cream packaging (50). It contains a binding portion (12) enabling the connection of the said coned ice cream packaging (50) with the lid (11).

Principle of the structure:

10

A coned ice cream comprises of a cone (40) and the ice cream (30) placed within the cone (40). As the the ice cream (30) is placed within the cone (40), a certain amount is also placed on the upper portion of the cone (40).

15 The said coned ice cream packaging (50) has a structure comprising of two parts, being the upper packaging (10) and the lower packaging (20) (See Figure 4, where these two parts are seen).

20 Whereas the the upper packaging (10) comprises of the lid (11) and side portion of the upper packaging (13). The lid (11) contains the extensions of an opening portion (111) and a lid binding portion (12). Figure 7 is a two dimensional upper-view of the lid (11). The side portion of the upper packaging (13) has crimped portions (131) formed by being folded onto the lid (11). Figure 6 is a two dimensional side-view of the crimped portion (131) to be folded onto the lid (11).

25

The upper packaging (10) and the lower packaging (20) are connected with the packaging tearing lines (14). Thus the upper packaging (10) and the lower packaging (20) are of a structure which can be easily separated. Additionally, the packaging tearing lines (14) begin at the lid binding portion (12) of the upper packaging (10). They  
30 continue circumferentially from the lid binding portion (12) until the portion, where they connect to the lower packaging (20). With this structure, the simple tearing of the upper packaging (10) within itself is enabled. Figure 2 shows the packaging tearing lines (14).

35

Principle of the assembly:

Primarily, around the cone (40) is wrapped with the lower packaging (20). Subsequently, around the ice cream (30) placed on the upper portion of the cone (40) is wrapped with the upper packaging (10). The said lower packaging (20) and the upper packaging (10) are connected with the packaging tearing lines (14).

The lid (11) to cover the upper portion of the ice cream (30) is placed onto the ice cream (30). The lid (11) is placed onto the ice cream (30) and between the crimped portions (131) on the upper packaging (10). When the lid (11) is thus placed, the opening portion (111) located on the lid (11) as an extension is placed on the opening portion gap (132) located on the crimped portion. Whereas the lid binding portion (12) being the other extension is stuck together with the crimped portion (13) at the point where they coincide. These processes will be apparent by looking at Figure 5 and Figure 6. Figure 8 is an upper-view of the lid (11) placed between the crimped portion (13).

Then, the wrapping onto the coned ice cream (50) process of the coned ice cream packaging ends with the crimped portion (13) being folded over the lid (11).

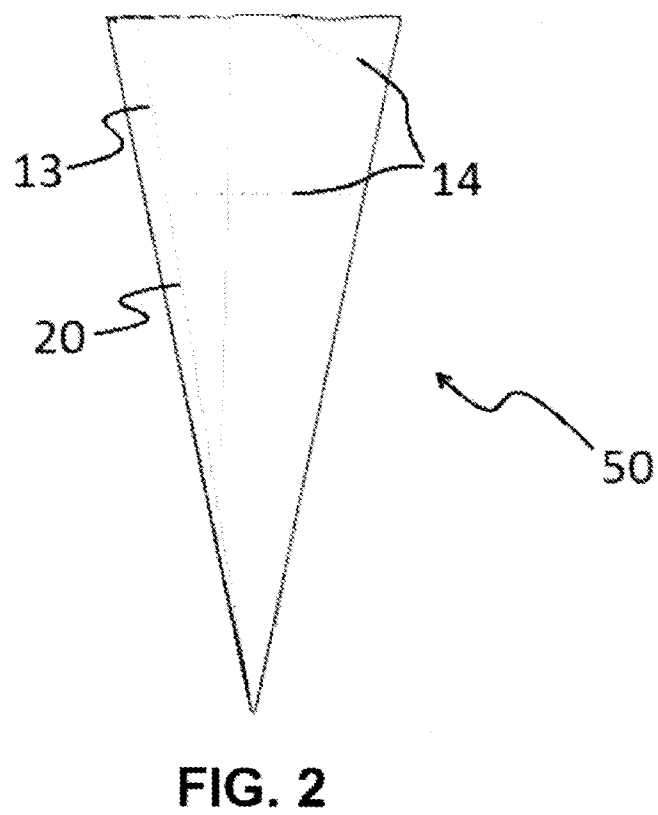
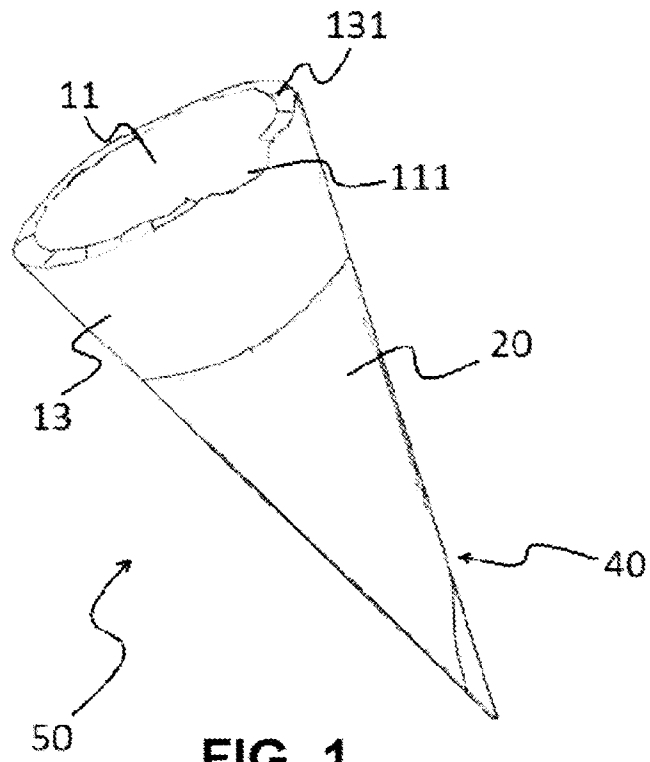
Figure 1 is a perspective view of the completed assembly of the coned ice cream packaging (50).

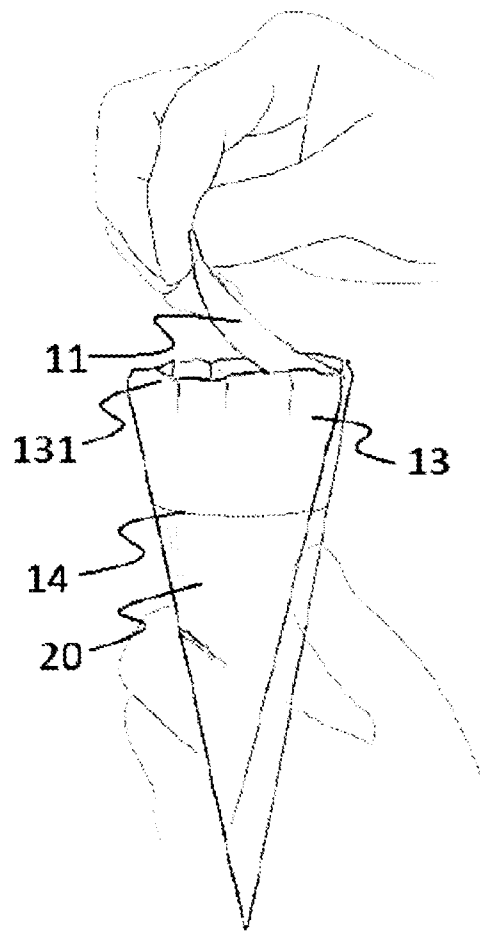
When one desires to tear/remove the coned ice cream packaging (50), the opening portion (111) is held and lifted up. This first process is shown in Figure 3. Subsequently, the lid (11) is moved around the ice cream (30) from the opening portion (111) and thus, the tearing of the upper packaging (10) from the packaging tearing lines (14) is enabled. Figure 4 is a perspective view of the final tearing/removing stage.

When held and pulled from the opening portion (111) with a single move, the upper packaging (10) is easily completely torn off. The lower packing (20) remains, enabling hygiene while holding the cone (40) when eating the ice cream (30).

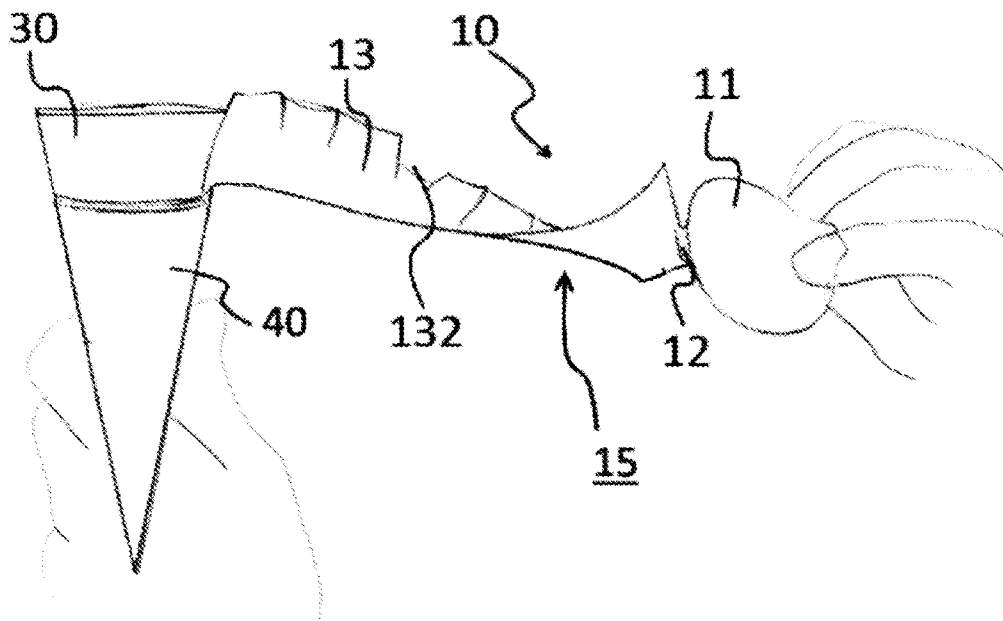
## CLAIMS

1. A cone (40) on which the ice cream (30) is placed, a lid (11) covering the upper portion of the said ice cream (30), a coned ice cream packaging (50) surrounding the cone (40) and the ice cream (30), characterised in that it comprises a one-piece packaging (15) containing an upper packaging (10) having a holistic structure with the said lid (11).
2. A coned ice cream packaging (50) according to claim 1, characterised in that it comprises a binding portion (12) enabling the connection of the said lid (11) with the coned ice cream packaging (50).
3. A coned ice cream packaging (50) according to claim 1, characterised in that it comprises a lower packaging (20) surrounding the said cone (40) portion.
4. A coned ice cream packaging (50) according to claim 1, characterised in that it comprises an opening portion (111) on the said lid (11), from which the opening process begins through holding the lid (11).
5. A coned ice cream packaging (50) according to claim 4, characterised in that it comprises an opening portion gap (132) on which the said opening portion (111) on the crimped portion (131) of the said upper packaging (10) will be placed.
6. A coned ice cream packaging (50) according to claim 4, characterised in that it comprises packaging tearing lines (14) enabling the easy tearing of the said upper packaging (10) and the lower packaging (20) from each other, and enabling the easy removal of the upper packaging (10) as well.





**FIG. 3**



**FIG. 4**

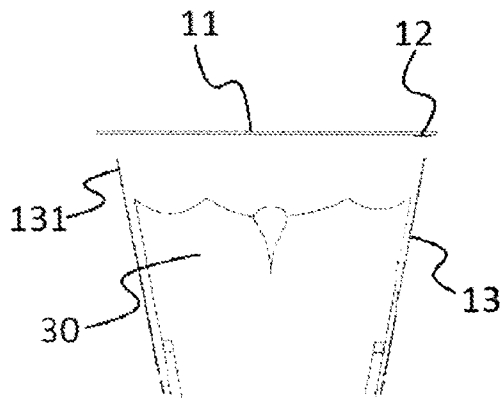


FIG. 5

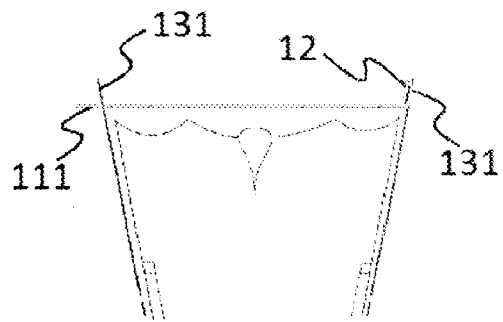


FIG. 6

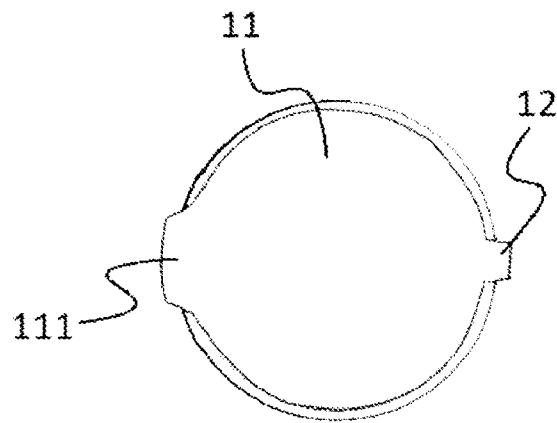


FIG. 7

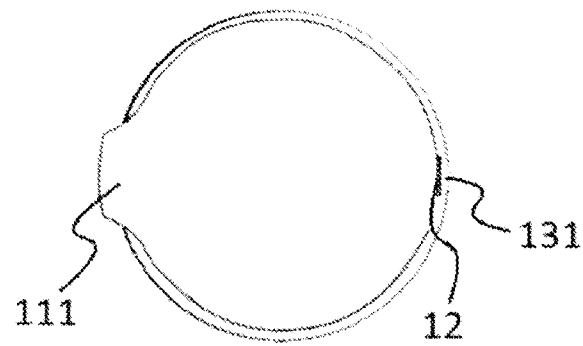


FIG. 8

## INTERNATIONAL SEARCH REPORT

International application No

PCT/TR2015/000087

## A. CLASSIFICATION OF SUBJECT MATTER

INV. B65D75/58 A23G9/50 B65D3/06 B65D85/78  
 ADD. B65D77/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B65D A23G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/016512 A1 (CHOAT ALEX THOMAS CAMERON [AU]) 26 February 2004 (2004-02-26)	1,2,4
Y	the whole document	3,5,6
Y	----- DE 10 2009 024194 A1 (ZWEIGNIEDERLASSUNG DER HUHTAMA [DE]) 9 December 2010 (2010-12-09)	3,6
Y	the whole document	
Y	----- WO 93/12978 A1 (POLYSTAR PACKAGING INC [US]) 8 July 1993 (1993-07-08) figure 1	5
A	----- US 1 599 267 A (AMOS CLYDE B) 7 September 1926 (1926-09-07) the whole document	1-6
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Further documents are listed in the continuation of Box C.



See patent family annex.

## \* Special categories of cited documents :

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Date of the actual completion of the international search

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Date of mailing of the international search report

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/TR2015/000087

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