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Applicant: **Manzoni, Alessandro
Via Pacuvio, 33
I-80122 Napoli(IT)**

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Inventor: **Manzoni, Alessandro
Via Pacuvio, 33
I-80122 Napoli(IT)**

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Representative: **Cirillo, Gennaro
c/o Studio Tecnico Cirillo, Via Santa Lucia 15
I-80132 Napoli(IT)**

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Multiple-layer lid for ice-cream containers or the like.

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The patent proposes a lid for the closure of
containers of ice-cream or other similar products,
even if non-edible, constituted by several overlap-
pable elements connected by their edges.

The lid is obtained from a single piece of ma-
terial, folded more than one time on itself, and seal-
ed by glue or any other suitable system.

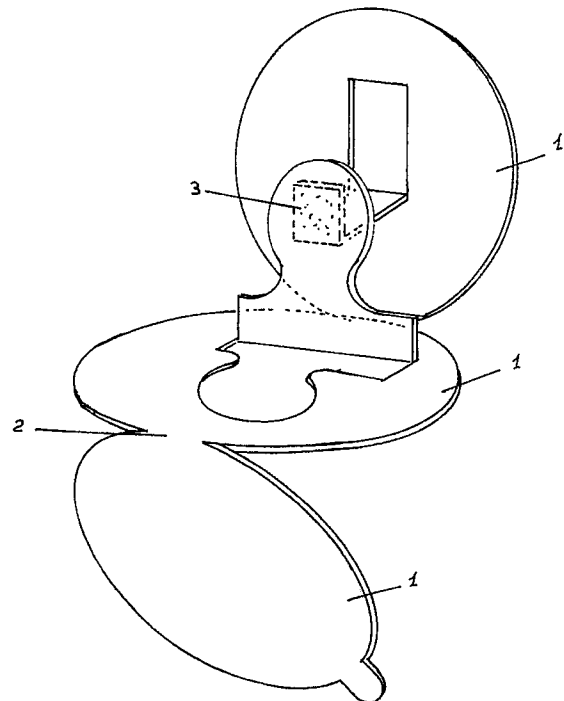


Fig: 3

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MULTIPLE LID FOR CONTAINERS OF ICE-CREAM OR SIMILAR

The lids nowadays generally used on round containers (or of any other shape) is formed by a piece of card board (or other suitable material), that matches with the upper rim of the container, where it becomes firm by pressure in an indent or against ribs that are located in the inner surface of the container rim.

The purpose of the present patent is to propose a new type of lid, obtained from a single piece of card board, formed by two or more elements folded on each other into one and connected one to the other by the edge.

The idea of the present solution will be clarified through the enclosed tables, where reference is made to a round lid, this being for a clarification purpose only.

The table 1/2 in figure 1) shows a round lid, made of three disks, in a view that shows it in a flat form; the figure 2) shows it in a cross section; table 2/2 in fig. 3) shows the lid during the folding phase, and on it die-cut areas have been evidenced.

With reference to the figures, the lid is constituted, by, in the case of the round shape, taken as example, three disks 1), connected by a peripheral edge 2), that are folded and overlapped.

This solution offers the following advantages:

- gives a wide printing surface;
- gives folded and hidden surfaces, to be used for contest exc.
- can be utilized to form small toy figures, obtained by die-cutting and gluing (nbr. 3 fig. 3);
- It matches with the container in the same way than the normal lid;
- It matches with container of any material, as plan paper, or one-sided or two-sided coated or laminated paper, or plastic material, or any other material.
- The interruption of the outer circular profile of the lid, caused by the hinge (crease) between two contiguous disks, (n.2 in fig. 1 and 3) is hidden by the profile of the third disk (n. 4 in fig. 1 and fig. 3).

After folding, in so doing ensuring the completeness of the round profile of the complete lid, that in turn guarantees the perfect fitting on the container.

- For different shapes, from the round one, this compensation of the profile could not be necessary.

- On the attached table the lid has been supposed to be round and formed by three disks, being obvious that either the shape or the number of elements can be different.

- In any case, to this idea of solution can be applied formal variations without going out of the dominion of the patent, that is defined by claims of the patent itself.

Claims

1. Lid for containers, constituted by more layers or pages, preferably round, connected by the edge, characterized by the fact that it is obtained from a single piece of card board (or other suitable material) folded on itself.

2. Lid as per claims nbr. 1), characterized by the fact that its structure can be used for promotional messages, or information for contest, sales campaigns, exc., or to make figures or erectable figures, by die-cutting and gluing-system.

3. Lid according to the claims 1) and 2) or characterized by the fact that it may be adaptable, alternatively with the one generally used, on the same containers in which this is adaptable without requesting particular modifications.

4. Lid as per claims nbr. 1), 2) and 3) characterized by the fact that it can be put on the container by the same machinery or tools used for the normal lid.

5. Lid as per claims nbr. 1), 2) and 3) characterized by the fact that (see point n° 6 of the description) in the case of the round shape, the completeness of the round profile, (guaranty of the correct fitting with the containers) is assured by the compensation between the straight hinge connecting two disks and the round profile of the third disk.

6. Lid as per all previous claims, whose shape can be also different from the round one.

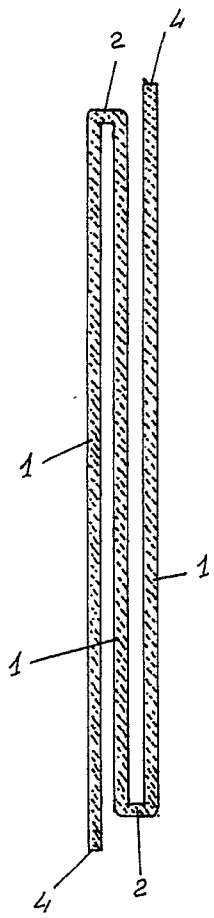


Fig: 2

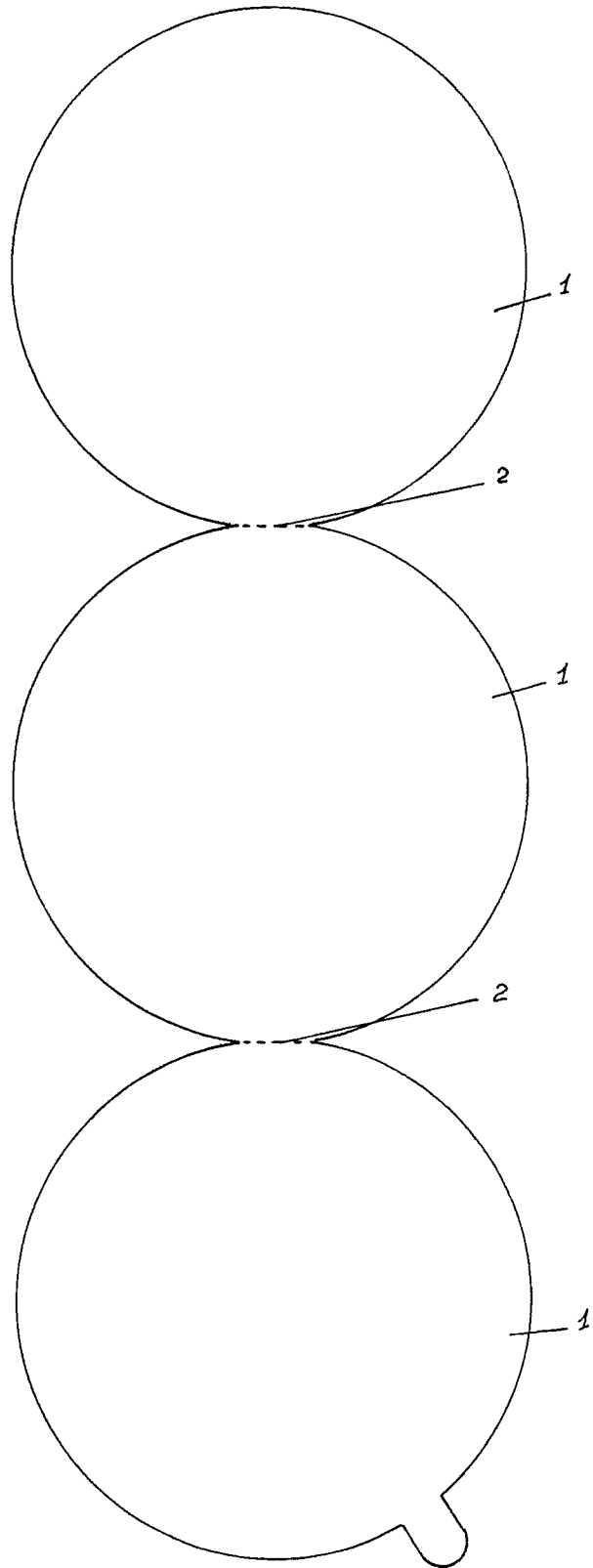


Fig: 1

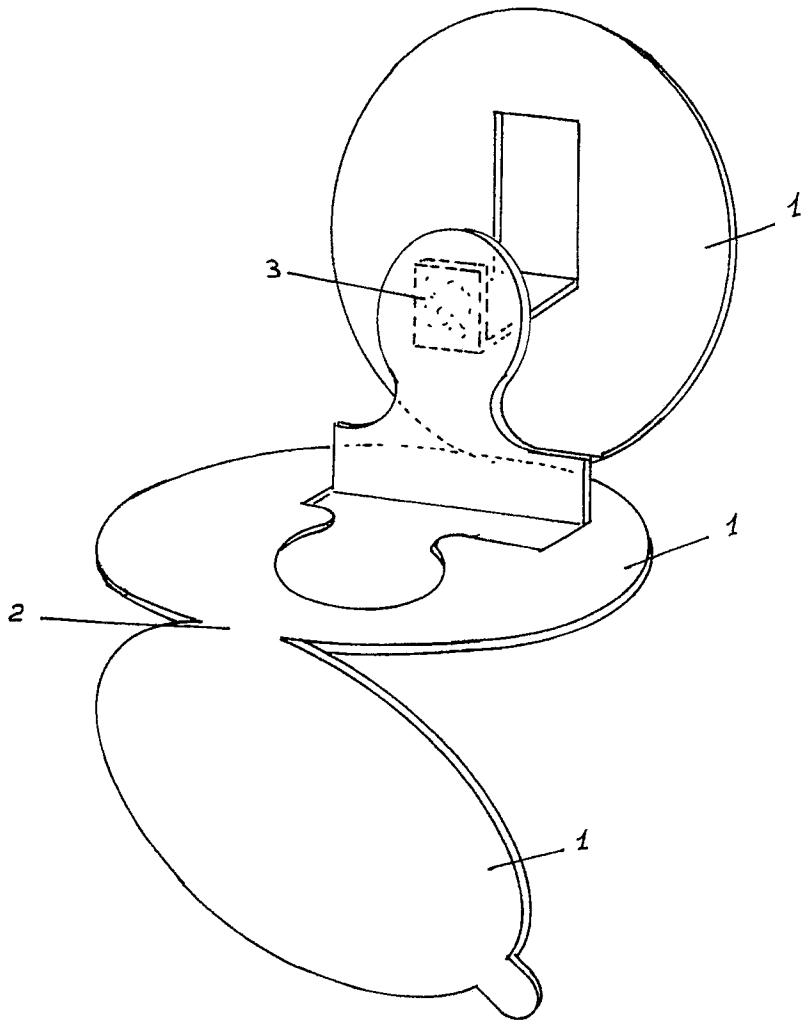


Fig: 3



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PARTIAL EUROPEAN SEARCH REPORT
which under Rule 45 of the European Patent Convention
shall be considered, for the purposes of subsequent
proceedings, as the European search report

Application number

EP 90 83 0255

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	US-A-2 305 361 (TANNER) * Page 1, left-hand column, lines 1-31; page 1, right-hand column, line 42 - page 2, left-hand column, line 41; page 2, left-hand column, line 69 - page 2, right-hand column, line 37; figures 1-11 *	1-3	B 65 D 51/24 G 09 F 23/10 B 65 D 39/02
Y	--	6	
X	US-A-1 513 959 (BISSELL) * Page 1, lines 33-51; figures 1-3 *	1,3	
X	US-A-2 354 043 (NETALOVA) * Page 1, left-hand column, lines 29-53; figures 1-3 *	1,3	
	--	./.	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			B 65 D G 09 F
INCOMPLETE SEARCH			
<p>The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims.</p> <p>Claims searched completely: Claims searched incompletely: Claims not searched: 4 Reason for the limitation of the search:</p> <p>Claim 4 is not supported by the description (Art. 84 EPC)</p>			
Place of search THE HAGUE		Date of completion of the search 21-08-1990	Examiner BERRINGTON
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
Y	BE-A- 354 726 (HENDERSON) * Figures 1,2 * --	6	
A	GB-A- 456 163 (ANDERSON) * Figures 1,2 * --	5	
A	US-A-4 548 352 (CAPO) * Figures 1,4,5 * ----	2	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)