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the stacked pans (6). The side wall (3) of the hollow body (1) comprises a tiered generatrix and is interrupted by a front aperture (5). The object of the invention is to achieve stable fastening of the pans inside the display packaging and also to provide protection against external dirt and deterioration of the pans.



## Description

### Object of the invention

[0001] The present invention relates to a display packaging for pans and the like comprising a hollow body with a tiered structure that provides stable fastening of a group of stacked pans and also provides protection against external dirt, dust and other external elements that could unduly affect the pans stacked inside the display packaging of the invention. Therefore, the object of the invention is to achieve stable fastening of the pans inside the display packaging and also to provide protection against external dirt and deterioration of the pans.

### Technical problem to be solved and background of the invention

[0002] Currently, it is common to offer individual units for sale, made up of a set of pans of various sizes that are grouped and stacked together according to size, from large to small, where the largest pan is usually located in a lower area and the smallest pan is located in the highest part.

[0003] At present, the tendency is to link the pans together using laminated cardboard bodies that provide unstable fastening and furthermore do not adequately cover the pans.

[0004] Therefore, these described sales means do not ensure good stabilization of the group of pans. Furthermore, they conceal the design or appearance of the product being sold and said sales means are scarcely or not at all hygienic, since the pans are exposed to inclement external conditions such as dust and other external elements, as well as handling by people who will not finally buy the pans.

### Description of the invention

[0005] In order to achieve the objectives and avoid the drawbacks mentioned in the previous paragraphs, the invention proposes a display packaging for pans and the like comprising a hollow body having a tiered structure made up of a base and a side wall; wherein the base is located in a plane opposite an opening of the hollow body.

[0006] Inside the hollow body various cavities are formed, configured to house parts of main bodies of at least some of the stacked pans; wherein said main bodies comprise a configuration in the shape of a bowl.

[0007] The side wall of the hollow body comprises a tiered generatrix, while at the same time said side wall is interrupted by a closed contoured front aperture, which is configured so that handles of the pans project towards the exterior through said front aperture.

[0008] The opening of the hollow body is delimited by a perimeter wing, which is interrupted by the front aperture; wherein said perimeter wing has a C-shaped surrounding profile configured to adapt and embrace a rim

of the main body of a lower pan located in the lowest part of a group of stacked pans.

[0009] The hollow body includes a lower flap that joins convergent ends of the perimeter wing that come together in a lower part of the front aperture; wherein said lower flap constitutes an element that closes said front aperture at the lowest part thereof.

[0010] The front aperture, which interrupts the continuity of the side wall of the hollow body is delimited by two collateral tabs and one upper tab joined to the base.

[0011] On the other hand, the cavities formed inside the hollow body are delimited by the base; and by surrounding portions and annular portions that are all part of the side wall; wherein the annular and base portions are located in planes that diverge towards the area in which the front aperture is located.

[0012] The display packaging of the invention provides protection against external dirt, dust and other external elements that could unduly affect the pans, such that the display packaging provides stable fastening of the pans and also provides protection against external dirt and deterioration of the pans.

[0013] For the purpose of helping to make this specification more readily understandable, a set of drawings constituting an integral part of the same has been included below, wherein by way of illustration and not limitation the object of the invention has been represented.

### Brief description of the drawings

[0014]

**Figure 1** shows an elevation view of the display packaging for pans and the like, object of the invention.

**Figure 2** shows a profile view of the display packaging.

**Figure 3** shows a plan view of the display packaging of the invention.

### Description of an exemplary embodiment of the invention

[0015] Considering the numbering adopted in the figures, the display packaging for pans and the like comprises a hollow body 1 having a tiered structure made up of a base 2, a side wall 3 and an opening 4 opposite the base 2; wherein said side wall 3 comprises a tiered generatrix; and wherein said side wall 3 is interrupted by a front aperture 5 bordered by two collateral tabs 5a and by an upper tab 5b joined to the base 2.

[0016] A succession of cavities 1a, 1b, 1c of different sizes, increasing from bottom to top, is configured inside the hollow body 1. Said cavities 1a, 1b, 1c of the hollow body 1 are configured to house, in the interior thereof, main bodies 6a (in the shape of a bowl) of pans 6 stacked from bottom to top in increasing manner; wherein handles 6b of the pans project towards the exterior through the

front aperture 5 found in the side wall 3 of the hollow body 1; featuring an upper pan, which has the smallest size and a lower pan, which has the largest size of all the stacked pans 6.

[0017] With the disposition described above and during the implementation of the display packaging of the invention, perimeter parts of side walls of the main bodies 6a of the different stacked pans 6, except the lower pan, said perimeter parts are fitted inside the different cavities 1a, 1b, 1c of the hollow body 1; wherein the main body 6a of the smaller-sized upper pan is fitted into the cavity 1a delimited by the upper part thereof through the base 2 of the hollow body.

[0018] The opening 4 of the hollow body 1 is delimited by a perimeter wing 7, which is interrupted by the front aperture 5; wherein said perimeter wing 7 has a C-shaped surrounding profile configured to adapt and embrace a rim 8 of the main body 6a of the larger-sized lower pan.

[0019] The hollow body 1 includes a lower flap 9 that joins convergent ends of the perimeter wing 7 that come together in a lower part of the front aperture 5, such that said flap 9 constitutes an element that closes said front aperture 5 at the lowest part thereof.

[0020] The cavities formed inside the hollow body 1 are delimited by the base 2; and by surrounding portions and annular portions that all form part of the side wall 3; wherein the annular portions and base 2 are found in planes that diverge towards the area in which the front aperture 5 is located.

[0021] In the embodiment shown in the figures, the adopted solution is really simple, since it essentially consists of the hollow body 1 molded in thermoplastic material, including the cavities 1a, 1b, 1c, which adapt to the perimeter of the different main bodies 6a of the pans 6.

[0022] The handles of the pans 6 project towards the exterior through the front aperture 5, and the lower flap 9 is placed below the handle 6b of the lower pan as a retaining element with respect to said handle 6b of the lower pan 6.

[0023] Preferably, the display packaging will be made of transparent plastic material but the use of dyed materials of even other non-polymer materials is also possible.

[0024] This type of display packaging can also be applied to other vessels, such pots and grills with a quadrangular shape, etc.

the hollow body (1) configured to house parts of main bodies (6a) of at least some of the stacked pans (6);

- the side wall (3) of the hollow body (1) comprises a tiered generatrix;
- the side wall (3) of the hollow body (1) is interrupted by a front aperture (5)

2. The display packaging for pans and the like according to claim 1, **characterized in that** the opening (4) of the hollow body (1) is delimited by a perimeter wing (7), which is interrupted by the front aperture (5); wherein said perimeter wing (7) has a C-shaped surrounding profile configured to adapt and embrace a rim (8) of the main body (6a) of a lower pan located in the lowest part of the stacked pans (6).

3. The display packaging for pans and the like according to claim 2, **characterized in that** the hollow body (1) includes a lower flap (9) that joins convergent ends of the perimeter wing (7) that come together in a lower part of the front aperture (5); wherein said lower flap (9) constitutes an element that closes said front aperture (5) at the lowest part thereof.

4. The display packaging for pans and the like, according to any one of the preceding claims, **characterized in that** the front aperture (5), which interrupts the continuity of the side wall (3) of the hollow body (1), is delimited by two collateral tabs (5a) and by an upper tab (5b) joined to the base (2).

5. The display packaging for pans and the like, according to any one of the preceding claims **characterized in that** the cavities formed inside the hollow body (1) are delimited by the base (2); and by surrounding portions and annular portions that all form part of the side wall (3); wherein the annular portions and base (2) are located in planes that diverge towards the area in which the front aperture (5) is located.

## Claims

1. A display packaging for pans and the like, characterized in that:

- it comprises a hollow body (1) having a tiered structure made up of a base (2) and a side wall (3); wherein the base (2) is located in a plane opposite an opening (4) of the hollow body (1); and wherein various cavities are formed inside

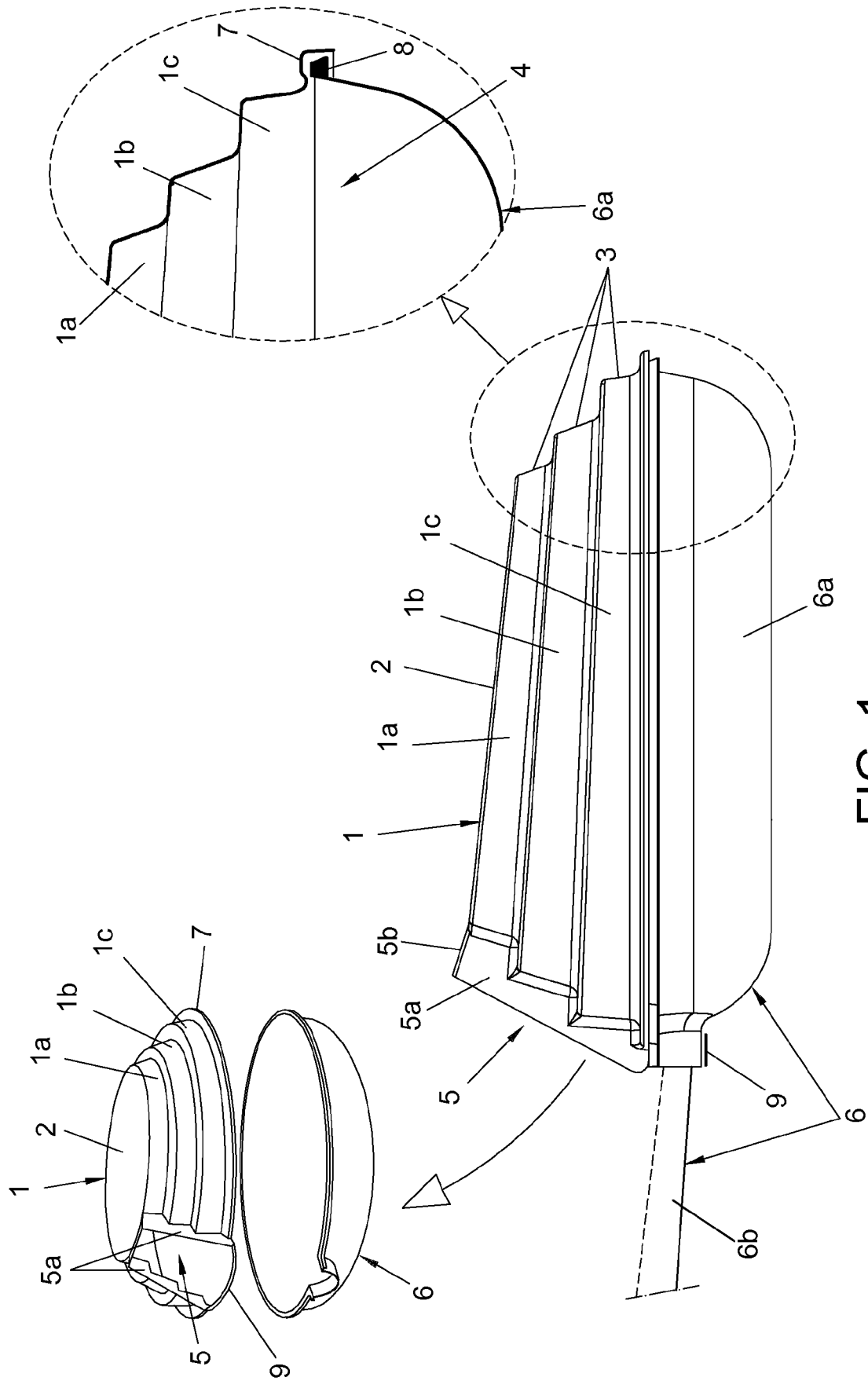


FIG. 1

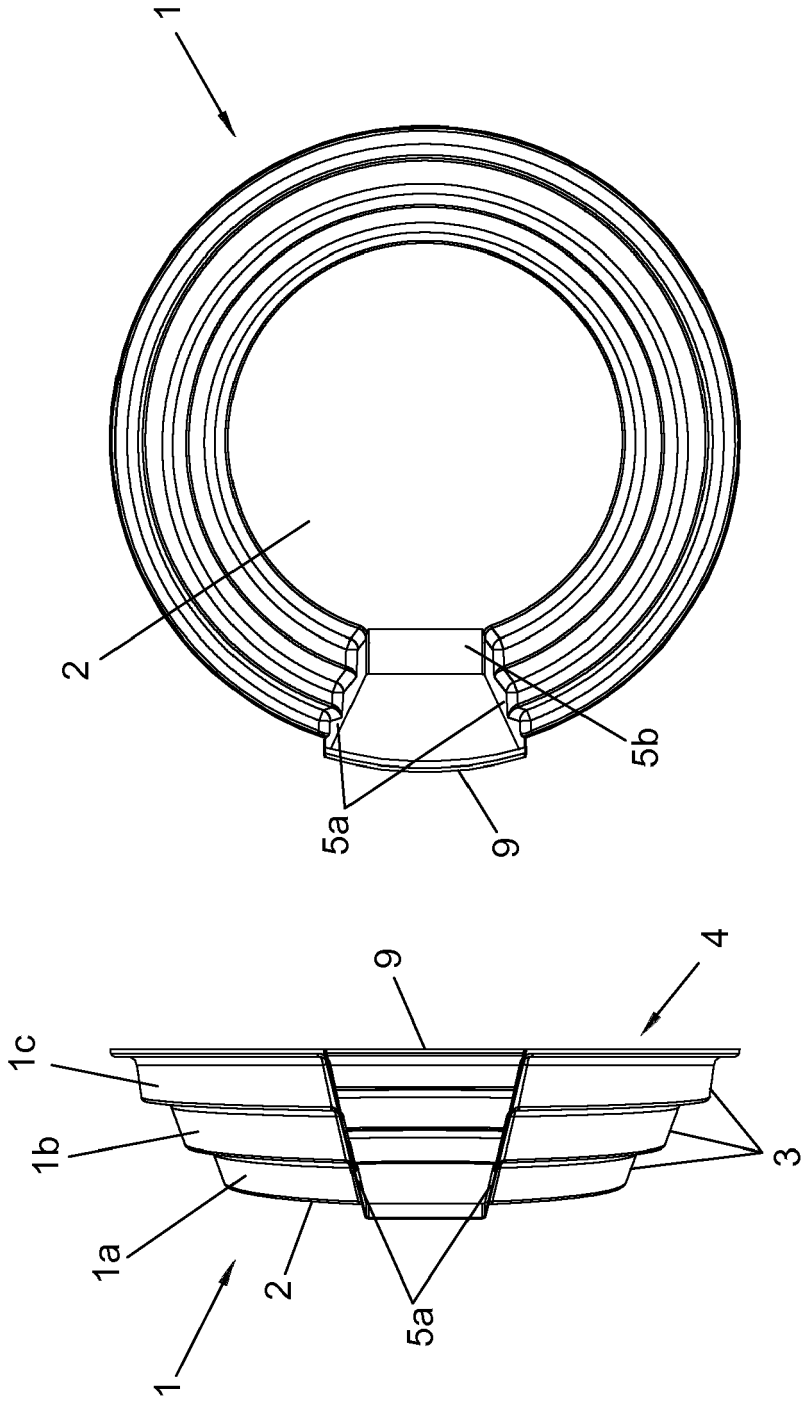


FIG. 3

FIG. 2



## EUROPEAN SEARCH REPORT

Application Number  
EP 18 15 7538

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X	WO 2007/052984 A1 (CHOI RENA [KR]) 10 May 2007 (2007-05-10)	1,2,4,5	INV. A47J36/06 B65D85/30 B65D85/62
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A	FR 2 155 147 A5 (SAUTEROT DRAC) 18 May 1973 (1973-05-18) * abstract * * pages 2-3; figures 1-4 *	1	
A	US 5 555 994 A (CHEN MING-CHING [TW]) 17 September 1996 (1996-09-17) * the whole document *	1	
A	KR 101 283 499 B1 (KIM YONG KYUNG [KR]) 12 July 2013 (2013-07-12) * the whole document *	1	TECHNICAL FIELDS SEARCHED (IPC)
			A47J A01G A01M B65D
The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>6 July 2018</b>	Examiner <b>Benedetti, Arnaud</b>
CATEGORY OF CITED DOCUMENTS 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 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			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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EP 18 15 7538

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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06-07-2018

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