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(54) **PACKAGE FOR PASTE-LIKE PRODUCTS**

(57) The inventive package for paste-like products is designed in the form of a flat packet which is made of a flexible material and has an opening line. The area adjacent to the opening line is provided with element the rigidity of which is greater than the rigidity of the package. The cross-section of the packet over the opening line is in the form of a narrow longitudinal aperture. The elements adjacent to the packet walls are in the form of stripes, the length of which corresponds to the length of the aperture formed when the packet is opened. The opening line is in the form of incisions and / or perforations. The closing element is made as a part of the packet which comprises the seam of the flat packet and is detachable when the packet is opened.

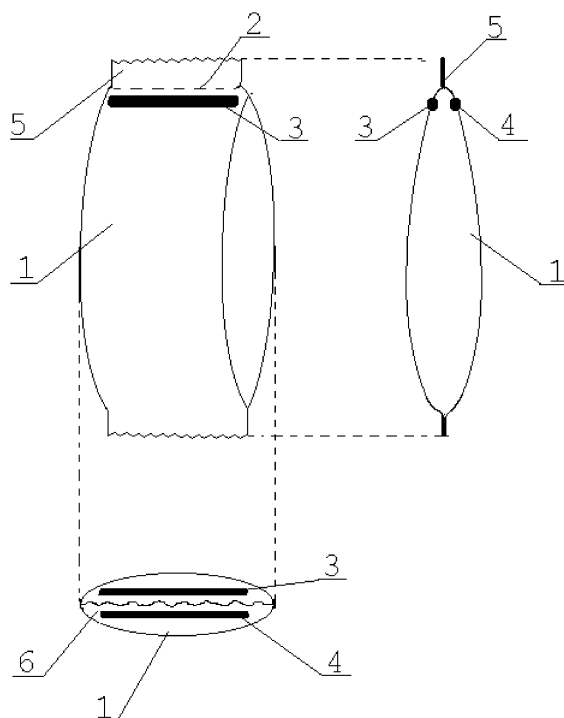


Fig. 1

Description

[0001] The utility model relates to the field of product packaging, in particular for packaging of paste-like products; it can be applied in food packaging used, for example, onboard a train and airplanes.

[0002] Package known for liquid medicines is three-seam sachet resistant to exposure to children. Sachet is made of laminated film, and has extended seam along the longitudinal axis and transverse extended seams at each end. Sachet is provided with a special method of opening the package (see R.F. Pat. No. 2281892 "Sachet resistant to exposure to children", IPC B65D 75/62 of February 7, 2003.).

[0003] Most similar to the proposed utility model for its essential features is a package for liquid dose medicines made in the form of sachet adopted as a **prototype**, and which has one longitudinal and two transverse seams and a opening groove made at the edge of the package (see Intl. Publ. WO 95 /01921. "Sachet for liquid medicines" the IPC. B65D75/48, B65D75/62 of January 19, 1995).

[0004] Sachet packing type is used not only for packaging of liquid medicines, but also generally for packaging of products in various dosages.

[0005] The disadvantages of the prototype include low consumer properties of packaging related to the fact that the release of products contained therein is uneven. This is conditioned by the fact that extraction of the contents of a package made of flexible material, goes out from a hole of a random shape. Moreover, the opening groove made on the flexible material of the package if used shortly and carelessly may result in rupture of the package in an unwanted place. In addition, when opening such a package the contact between consumer's hands and the contents of the package is possible. All this leads to lower consumer properties of the package.

[0006] The **task** of prospective invention is to improve the consumer properties of the package.

[0007] This task is achieved by the following: in the package for pasty products, made in the form of a flat package of a flexible material with an opening line, according to a utility model, the area adjacent to the opening line is provided with elements with the rigidity higher than the rigidity of the package.

[0008] Moreover, the task is also solved by the section of the package along the opening line made in the shape of a narrow longitudinal hole.

[0009] Elements are made in the form of stripes; their length fits the length of the hole formed when the package is being opened.

[0010] The opening line is made in the form of perforation

[0011] The package is equipped with the closing element which is made as a part of the package and which includes the seam of the flat packet and is detachable when the packet is opened.

[0012] It is so designed that the opening of the package

is exercised along the opening line by the notches and / or perforation. Specified closing element is the part of the package which is detachable when the package is opened and which includes the seam of the flat package.

[0013] Implementation of the elements with the rigidity higher than the rigidity of the package makes the edges of the opened package of a certain shape and allows to easily release the contents in the form of a strip of a required thickness.

[0014] In addition, such a design of the package protects from the product contained in the package being contacted by the consumer's hands, because the rigidity of exposed edges of the package prevents involuntary discharge.

[0015] The hole which is formed at the opening and which has a shape of a narrow elongated slit ensures the release of the contents as a uniform strip.

[0016] The elements in the form of strips allows to easily release the product contained in the package by pressing the package in the place free of the elements; this ensures a uniform release and application of the contents to the surface.

[0017] The opening line made in the form of perforations allows for easy opening of the package by each user along the area of the package compacted by the elements, and prevents the package from rupturing in an unintended place and helps to avoid unwanted contact of the packaged product with the consumer's hands.

[0018] Thus, as a result of the above the task of the utility model is solved, namely, consumer properties of paste-like products' packaging increase.

[0019] The proposed mechanism is clarified in the drawing, which shows the following:

fig. 1 - general form of packaging;

fig. 2 - general form of packaging when opened.

[0020] Packaging for paste-like products is designed as a flat pack 1 of a flexible material. At the same time, package 1 also has opening line 2 made in the form of notches and / or perforation. Package 1 is equipped with the elements 3 and 4 with rigidity higher than the rigidity of the package.

[0021] Elements 3 and 4 are tightly adjacent to the walls of the package 1, inside or outside, and can be made in the form of strips. Elements 3 and 4 forming a narrow longitudinal hole 6, may be shaped as strips of different sections; they are tightly adjacent to the package 1 closely to the opening line 2. The elements can be attached to the outside or the inside wall of the package, and remain on the package after it is opened.

[0022] The package is equipped with a closing element 5 which is detachable part of the package when it is opened and which includes the flat pack's seam.

[0023] Cross section of the package along the opening line 2 is a narrow longitudinal hole 6.

[0024] The contents are accessed by opening the package 1 along the opening line 2 .. By pressing the

package 1 consumer releases it through a narrow longitudinal hole 6, which is formed between the elements 3 and 4. The contents are released in the form of strip and can be uniformly spread on the surface. This property is convenient when using so packaged paste-like products such as butter, cheese, a variety of pastas and sauces, as it helps to avoid the use of a knife for buttering, which is especially helpful when it is used in vehicles. 5

[0025] Opening and extraction of contents of the package is exercised without contact with the product, as when opening the package along the provided perforations and / or notch, customer holds the pack by the edge near the line of detachment; this is convenient, if the contents are fatted or dyeing. 10

[0026] Size and width of the hole of the package may vary depending on the product being packaged. 15

Claims

1. The package for paste-like products designed in the form of a flat packet of a flexible material with an opening line wherein the area adjacent to the opening line is provided with element of the rigidity higher than the rigidity of the package. 20 25
2. Package of claim 1 with the cross-section of the packet over the opening line made in the form of a narrow longitudinal hole. 30
3. Package of claim 1 with the elements made in the form of stripes the length of which fits the length of the hole formed when the package is being opened.
4. Package of claim 1 with the opening line made in the form of perforations. 35
5. Package of claim 1 equipped with the closing element. 40
6. Package of claim 5 with closing elements which is the part of the package detachable when it is opened.
7. Package of claim 5 with closing element with the seam of the flat packet. 45

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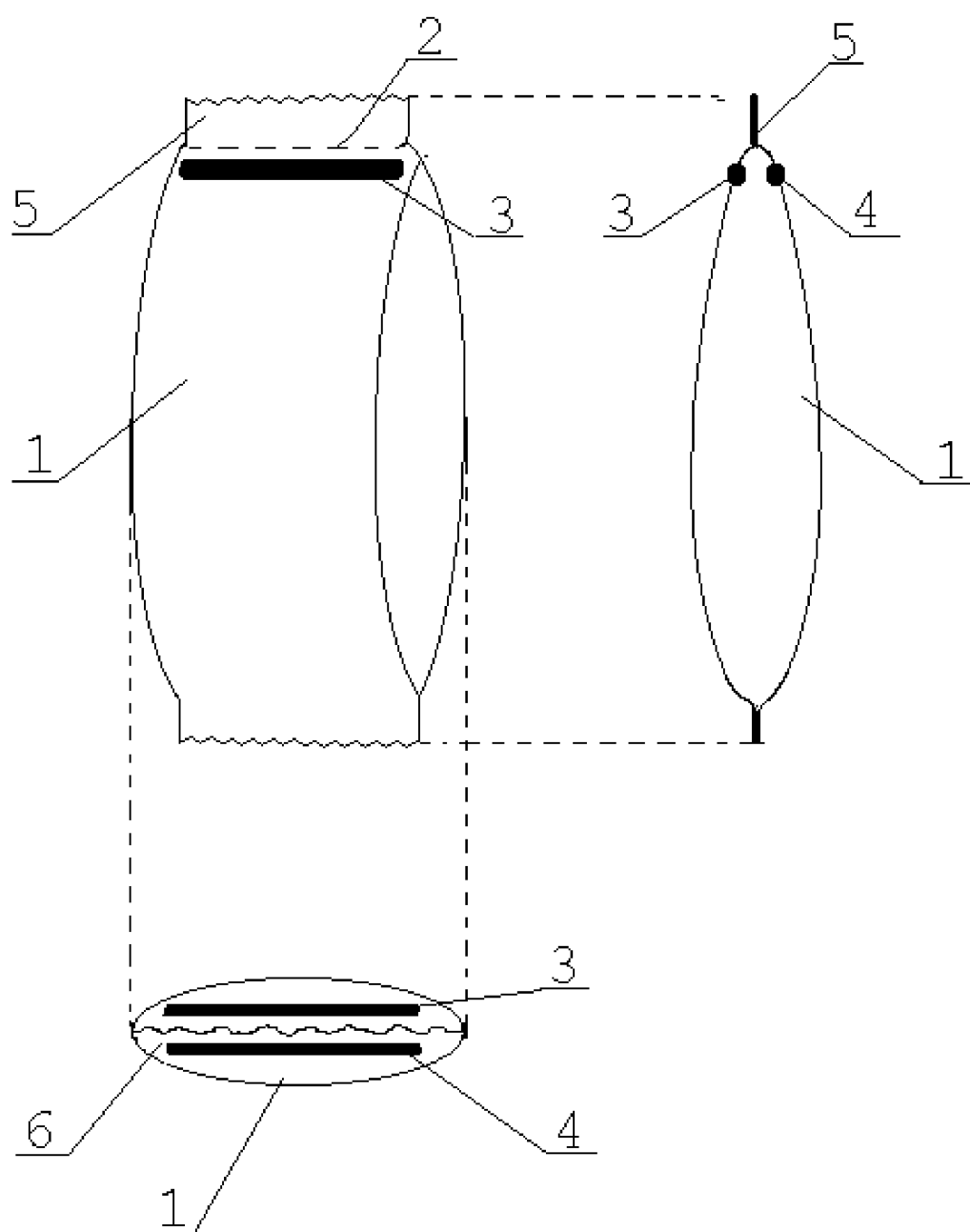


Fig. 1

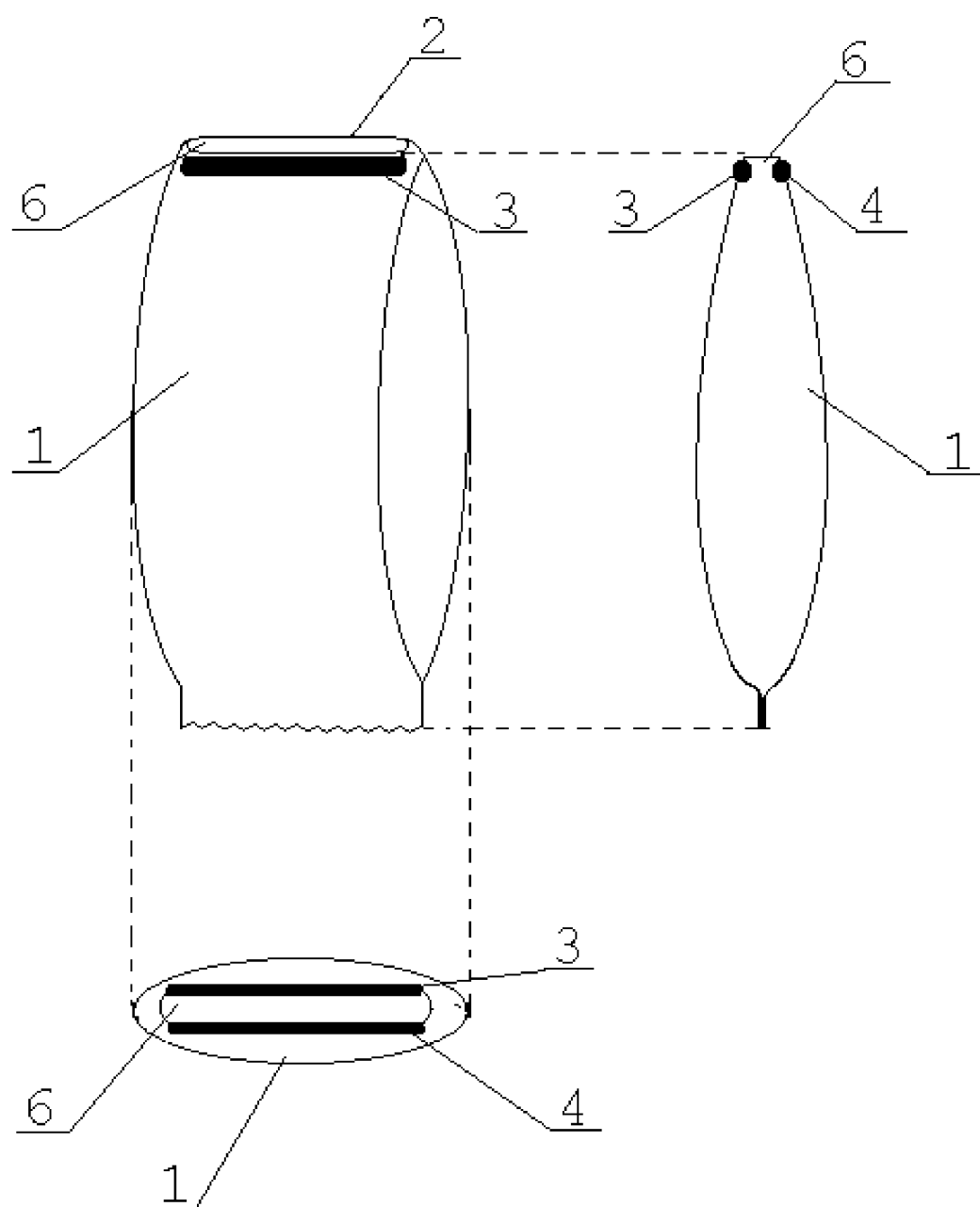


Fig. 2

INTERNATIONAL SEARCH REPORT

International application No.
PCT/RU 2009/000353

A. CLASSIFICATION OF SUBJECT MATTER		
B65D 35/00 (2006.01)		
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 35/00, 75/48, 75/62, 33/00, 79/00, 35/08		
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)		
PAJ, RUPAT, PatSearch, USPTO, Esp@cenet		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0031232 A1 (JEAN-CLAUDE JAMMET et al.) 10.02.2005, figure 1a- 12b, paragraphs [0055], [0056], [0083]	1-7
X	US 5005734 A (COLGATE-PALMOLIVE COMPANY) 09.04.1991, figures 3, 7, the abstract	1
A	US 3526317 A (PAUL VANDERS) 01.09.1970	1-7
A	RU 2224699 C2 (IZOTOV OLEG VLADIMIROVICH) 27.02.2004	1-7
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
15 October 2009 (15.10.2009)		19 November 2009 (19.11.2009)
Name and mailing address of the ISA/		Authorized officer
Facsimile No.		Telephone No.

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- WO 2281892 A [0002]
- WO 9501921 A [0003]