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

**VERPACKUNG FÜR PASTENARTIGE PRODUKTE**

**EMBALLAGE POUR PRODUITS PATEUX**

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(73) Proprietor: **Ankudinov, Vladimir Aleksandrovich  
Chelyabinsk 454014 (RU)**

(72) Inventor: **Ankudinov, Vladimir Aleksandrovich  
Chelyabinsk 454014 (RU)**

(74) Representative: **Dennemeyer & Associates S.A.**

**55, rue des Bruyères  
1274 Howald (LU)**

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## Description

**[0001]** The invention 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 a 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]** The French patent application FR 2 303 723 A1 discloses a package that can be opened by tearing along a perforated line. In order to avoid damage to the package on both sides of the perforated line the line is defined by adhesive elements which ensure, that the separation will take place only along the assigned perforated line.

**[0004]** Further, it is known 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 an 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).

**[0005]** Sachet packing type is used not only for packaging of liquid medicines, but also generally for packaging of products in various dosages.

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 the invention is to improve the consumer properties of the package.

**[0007]** This task is achieved by the features defined in claim 1, in particular in the package for pasty products, made in the form of a flat package of a flexible material with an opening line the area adjacent to the opening line is provided with elements with the rigidity higher than the rigidity of the package, wherein the cross-section of the package over the opening line is made in the form of a narrow longitudinal hole.

**[0008]** Elements are made in the form of stripes; their length fits the length of the hole formed when the package is being opened.

**[0009]** The opening line is made in the form of a perforation

**[0010]** The package is equipped with the closing ele-

ment 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.

**[0011]** 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.

**[0012]** According to the invention the implementation of the elements with the rigidity higher than the rigidity of the package makes the edges of the opened package of a narrow longitudinal hole and allows to easily release the contents in the form of a strip of a required thickness.

**[0013]** 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.

**[0014]** 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.

**[0015]** 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.

**[0016]** 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.

**[0017]** Thus, as a result of the above the task is solved, namely, consumer properties of paste-like products' packaging increase.

**[0018]** 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.

**[0019]** 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 a rigidity higher than the rigidity of the package.

**[0020]** 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.

**[0021]** The package is equipped with a closing element 5 which is a detachable part of the package when it is opened and which includes the flat pack's seam.

**[0022]** Cross section of the package along the opening line 2 is a narrow longitudinal hole 6.

**[0023]** 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 a 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.

**[0024]** 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 notches, customer holds the pack by the edge near the line of detachment; this is convenient, if the contents are fatted or dyeing.

**[0025]** Size and width of the hole of the package may vary depending on the product being packaged.

## Claims

1. A package for paste-like products designed in the form of a flat packet (1) of a flexible material with an opening line (2), wherein an area adjacent to the opening line (2) on one side of the main package body is provided with elements (3, 4) of a rigidity higher than the rigidity of the package and wherein the rigidity of the elements (3, 4) makes the edges of the opened package of a certain shape **characterized in that** the cross-section of the package (1) over the opening line (2) is made in the form of a narrow longitudinal hole (6).
2. Package of claim 1 wherein the elements (3, 4) are made in the form of strips and the length of which fits the length of the hole (6) formed when the package is being opened.
3. Package of claim 1 wherein the opening line (2) is made in the form of perforations.
4. Package of claim 1 wherein the package is equipped with a closing element (5).
5. Package of claim 4 wherein the closing element (5) is part of the package and is detachable when the package is opened.
6. Package of claim 4 wherein the closing element (5) includes the seam of the flat package.

## Patentansprüche

1. Verpackung für pastenförmige Produkte, ausgelegt

in Form einer flachen Verpackung (1) aus einem biegsamen Material mit einer Öffnungslinie (2), wobei ein Bereich neben der Öffnungslinie (2) auf einer Seite des Hauptverpackungskörpers mit Elementen (3, 4) versehen ist, deren Steifigkeit größer ist als die Steifigkeit der Verpackung, und wobei die Steifigkeit der Elemente (3, 4) den Rändern der geöffneten Verpackung eine gewisse Form verleiht, **dadurch gekennzeichnet, dass** der Querschnitt der Verpackung (1) über die Öffnungslinie (2) in Form eines schmalen länglichen Lochs (6) ausgebildet ist.

2. Verpackung nach Anspruch 1, wobei die Elemente (3, 4) in Form von Streifen ausgebildet sind und ihre Länge an die Länge des Lochs (6) angepasst ist, das sich bildet, wenn die Verpackung geöffnet wird.
3. Verpackung nach Anspruch 1, wobei die Öffnungslinie (2) in Form von Lochungen ausgebildet ist.
4. Verpackung nach Anspruch 1, wobei die Verpackung mit einem Verschlusselement (5) ausgestattet ist.
5. Verpackung nach Anspruch 4, wobei das Verschlusselement (5) Teil der Verpackung ist und abnehmbar ist, wenn die Verpackung geöffnet wird.
6. Verpackung nach Anspruch 4, wobei das Verschlusselement (5) die Naht der flachen Verpackung umfasst.

## Revendications

1. Emballage pour produits pâteux, conçu sous la forme d'un emballage plat (1) en matériau souple avec une ligne d'ouverture (2), dans lequel une zone adjacente à la ligne d'ouverture (2) sur un côté du corps d'emballage principal est munie d'éléments (3, 4) d'une rigidité supérieure à la rigidité de l'emballage, et dans lequel la rigidité des éléments (3, 4) confère une certaine forme aux bords de l'emballage ouvert, **caractérisé en ce que** la section transversale de l'emballage (1) au niveau de la ligne d'ouverture (2) est réalisée sous la forme d'un trou longitudinal étroit (6).
2. Emballage selon la revendication 1, dans lequel les éléments (3, 4) sont réalisés sous la forme de bandes et leur longueur s'adapte à la longueur du trou (6) formé lorsque l'emballage est ouvert.
3. Emballage selon la revendication 1, dans lequel la ligne d'ouverture (2) est réalisée sous la forme de perforations.
4. Emballage selon la revendication 1, dans lequel

l'emballage est équipé d'un élément de fermeture (5).

5. Emballage selon la revendication 4, dans lequel l'élément de fermeture (5) fait partie de l'emballage et est amovible lorsque l'emballage est ouvert. 5
6. Emballage selon la revendication 4, dans lequel l'élément de fermeture (5) comprend la ligne de joint de l'emballage plat. 10

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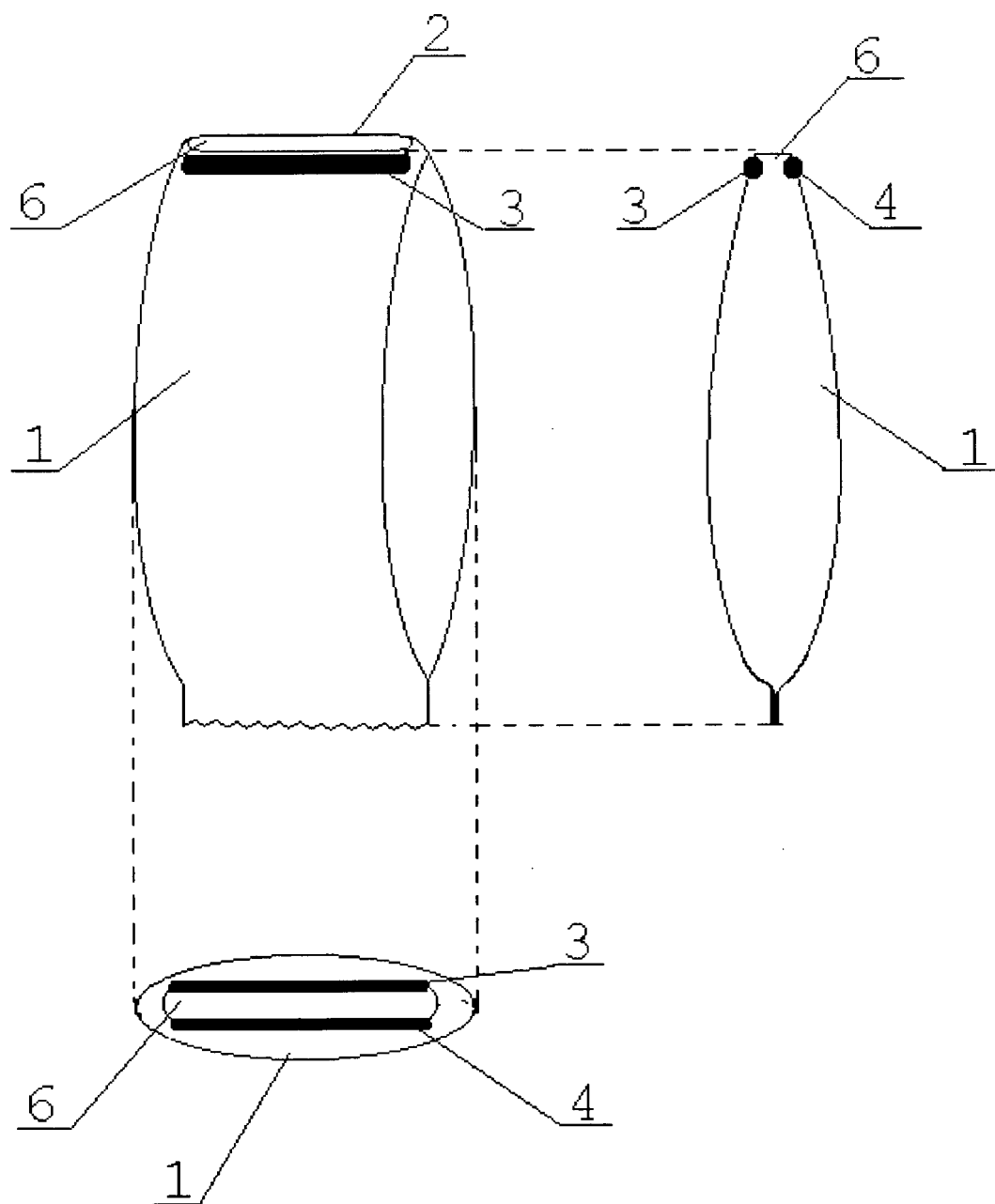


Fig. 2

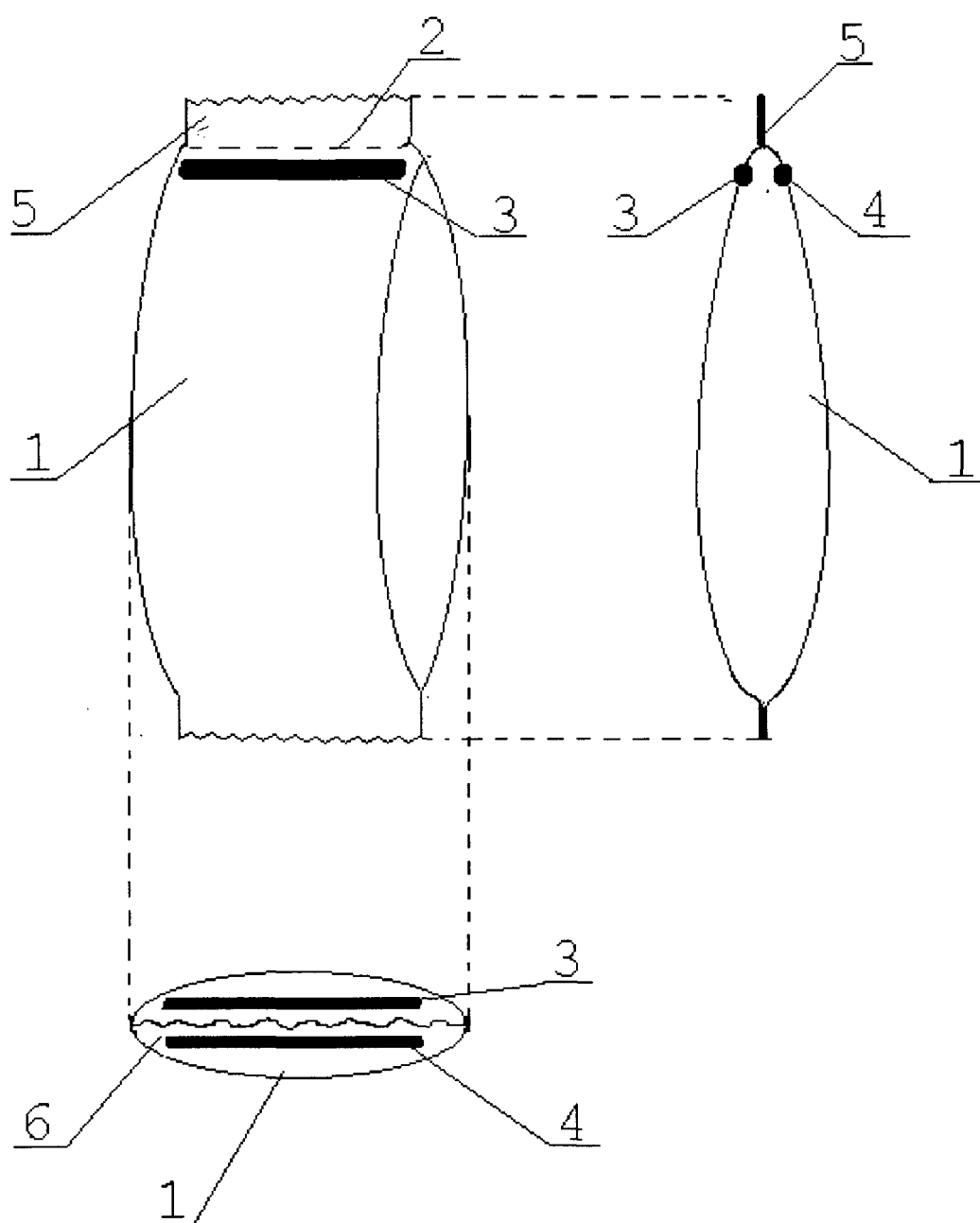


Fig. 1

**REFERENCES CITED IN THE DESCRIPTION**

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