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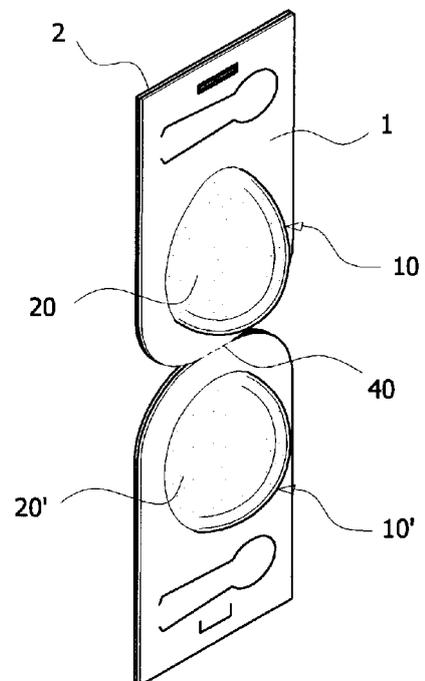
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(54) **BLISTER PACKAGING FOR SIMULTANEOUSLY HOUSING PACKAGING CONTAINER FOR REFILL- OR CARTRIDGE-TYPE CONTENT AND CASE FOR ACCOMMODATING SAME**

(57) The present invention relates to a blister packaging for simultaneously housing, in a single packaging body, any case for storing contents so as to allow same to be put in and taken out, thus facilitating portability and storage, and a packaging container accommodated in the interior of the case so as to allow the former to be put in and taken out, the packaging container containing cartridge- or refill-type contents. A case accommodation part for accommodating the case and a separate content accommodation part which can be filed with contents for the cartridge packaging container are molded on a molding sheet simultaneously, wherein, when both accommodation parts are sealed with a cover film, a cutting line is provided on the flexible part of the content accommodating part so that, during use, just the content accommodation part can be independently torn off to be stored inside the case, or the refill content accommodation part can be opened and inserted into the case to be used.

[Fig. 1]



EP 3 081 507 A1

Description

[Technical Field]

[0001] The present invention relates to a blister package for simultaneously housing, in a single package body, any case which is configured to insertably and withdrawably store contents for facilitating portability and storage, and a blister package container or a blister type refill package container which is filled with cartridge type contents and is insertably and withdrawably stored and used inside the case, and more particularly, to a blister package where a case accommodation part for accommodating the case and a separate content accommodation part which can be filled with contents for the cartridge package container or the refill package container are simultaneously molded on a molding sheet such that when each accommodation part is sealed with a covering film and a cutting line is provided on an edge part of the content accommodation part, therefore, during use, only the content accommodation part may be independently torn off to be stored inside the case, or the refill package container may be opened and inserted into the case to be used. Therefore, a packaging process for a case and a manufacturing process for a cartridge package container or a refill package container are completable in a single process, and as a result, a reduction of a packaging process may lead to improved productivity and reduced manufacturing cost.

[Background Art]

[0002] Typically, a blister package is a type of package method as a thermoplastic plastic film or a sheet, and is a method in which contents are put in a swollen portion of a container body, which is made of a plastic laminated molding sheet molded by pressure forming or vacuum forming in a shape which roughly resembles a product desired to be packaged, and then, only a flat flange part of the container body is adhered with a covering film made of a paper or a plastic laminated film, by heat-sealing, a high frequency wave, an ultrasonic wave, etc., which is widely used in packaging of food, daily necessities, goods, industrial products, refined chemicals, liquid cosmetics, and the like.

[0003] Meanwhile, the blister package body as above is designed to be disposable or consumed short-term depending on the type of contents. Also, for easily spoiled contents, the contents are not stored in a separate case, but sold to be used once. In a case of contents which are repeatedly used over a relatively long-term period and has low spoilage potential such as a wax type solid perfume, a diffuser, or cosmetics, etc., the contents are used in a structure capable of opening for usage and then closing again while stored in a plastic or metal case for facilitating portability or storage.

[0004] Further, for some products, in many instances, a cartridge-type package body is stored in a metal, a

plastic, a ceramic, or a glass container, or content from a refill package body is put in a container to be used, thus facilitating portability and storage. To distribute and sale such a product, a container and a cartridge package body or a refill package body may be stored again in a paper case, a transparent plastic case, or a metal, a plastic, a ceramic, or a glass container, or a transparent blister package which shows the cartridge or the refill container, and then may be sold.

[0005] FIG. 7 is a state in which a case C and a content package body AC that has already been formed by a blister package method become a set through a blister package.

[0006] For making a conventional blister package body as shown in FIG. 7, as FIG. 8 illustrates, first, a process in which contents A are packed by the blister package through a molding sheet A2 provided with a container part A1 and a covering film A3 is required (forming a container - filling contents - sealing a cover). Secondly, a process which stores the content package body AC which completed packaging into a separate case C again, and thirdly, a process in which the case C storing the content package body AC is secondarily packed by the blister package through a molding sheet C2 provided with a container part C1 and a covering film C3 are required (forming a container - inserting into a case - sealing a cover).

[0007] In a conventional packaging method as shown in FIG. 7, a packaging process for the case C and a packaging process for the content package body AC are made by separate processes which require two blister packaging processes, thereby causing a rise in manufacturing cost and a fall in productivity due to the increase in the packaging processes.

[0008] In addition, since a conventional package body as shown in FIG. 7 only accommodates the case C and the content package body AC which is filled with contents on sale, for example, it is common that a separate package is delivered to a consumer in order to introduce a product sample for checking the consumer's feedback about a prototype in development, a not-for-sale product which completed development, or a conventional product for promoting sales to the consumer. Also, most blister packages are not provided with additional functions and structures to accommodate samples. In this case, generation of cost for delivering a sample is unavoidable.

[0009] Therefore, it is difficult to ensure accuracy, efficiency, and diversity of feedback due to difficulties in asking for various opinions and having a wide range of sample distributions by using the method which distributes separate samples to a certain group of testers in order to check the consumer's feedback about a prototype in development or a not-for-sale product which completed development.

[Disclosure]

[Technical Problem]

[0010] The present invention, in order to solve the aforementioned problem, provides a blister package in which only a content accommodation part may be independently torn off to be stored inside the case when in use, or a content accommodation part having refill contents therein may be torn off and opened to be stored in the case for usage. The present invention is directed to providing a blister package which simultaneously houses a refill or cartridge type content package container and a case accommodating the same to improve productivity and reduce manufacturing cost by a reduction of a packaging process which completes a packaging process for a case and a manufacturing process for a cartridge or refill package container in a single process.

[Technical Solution]

[0011] To achieve the above object of the present invention, there is provided a blister package which is simultaneously molded to have a case accommodation part for accommodating a case and a separate content accommodation part being filled with contents for cartridge-type or refill-type contents on a molding sheet such that the content accommodation part has a broken line on an edge part thereof to enable the content accommodation part to be independently torn off while each accommodation part is sealed with a covering film.

[0012] Further, the present invention is additionally configured to have a sample content accommodation part which is capable of packaging sample contents of a prototype in development or a not-for-sale product which completed development on the molding sheet.

[Advantageous Effects]

[0013] According to the present invention as described above, a case may be withdrawn and a content accommodation part may be torn off to be stored inside the case when a blister package body is opened. Or the content accommodation part may be opened and inserted into the case to be used. Therefore, a packaging process for the case and a manufacturing process for a cartridge package container are completable in a single process, and as a result, a reduction of a packaging process may lead to improved productivity and reduced manufacturing cost.

[0014] Furthermore, as a prototype in development scheduled to be released, a not-for-sale product completed development, or a sample for promoting sales is accommodated in a product for sale to unspecified individuals, a consumer may become aware of features of the sample in advance, thereby increasing the consumer's expectation and taking an advantageous position in a decision of product choice. A variety of feedback may

be received regarding the sample, which helps improve the product quality of the products on the market. Unlimited distribution range of samples ensures accuracy, effectiveness, and diversity of the feedback.

[Description of Drawings]

[0015]

FIG. 1 is a perspective view showing a configuration example according to one embodiment of the present invention.

FIG. 2 is a perspective view of FIG. 1.

FIG. 3 is a cross-sectional view of FIG. 1.

FIG. 4 is a view illustrating a manufacturing process of the present invention.

FIG. 5 is a view illustrating a process to use a content accommodation part which is applied to the present invention.

FIG. 6 is a view illustrating a process to use a sample content accommodation part which is applied to the present invention.

FIG. 7 is a cross-sectional view showing a blister package body which is packed along with a content package body and a case.

FIG. 8 is a view illustrating a manufacturing process of FIG. 7.

[Modes of the Invention]

[0016] Hereinafter, exemplary embodiments of the present invention will be described in detail. However, the present invention is not limited to the exemplary embodiments disclosed below, but can be implemented in various forms. The following exemplary embodiments are described in order to enable those of ordinary skill in the art to embody and practice the invention.

[0017] The present invention will be described hereinafter in detail with reference to the accompanying drawings.

[0018] FIG. 1 is a perspective view showing a configuration example according to one embodiment of the present invention, and FIG. 2 is a perspective view of FIG. 1.

[0019] As illustrated, there is provided a blister package in a known structure in which a package body P of the present invention is formed on a piece of a molding sheet 1, a case accommodation part 3 to accommodate a case C having a cover C' is provided, and the molding sheet 1 has a covering film 2 attached on a back side thereof.

[0020] Here, the blister package includes each of a content accommodation part 10 which is formed on the molding sheet 1 to be filled with and accommodate contents A, a cartridge or refill cutting line 20 which is formed along a lower edge part of the content accommodation part 10, provides a flange part 11 on the content accommodation part 10, and also selectively enables an indi-

vidual separation and tear-off on the molding sheet 1 and the covering film 2 so as to form an independent cartridge or refill package container 10A, and is configured to have a notched part for connection 21 at one part thereof, a sample content accommodation part 30 formed on the molding sheet 1 in order to be filled with and accommodate sample contents A' of a prototype in development or a not-for-sale product which completed development, a sample notched line 40 which is formed on the molding sheet 1 and selectively enables the sample content accommodation part 30 to be individually separated and torn off on the molding sheet 1 and the covering film 2 so as to form an independent sample package container 30A, and a projecting part for opening guidance 50 which protrudes from the molding sheet 1 and allows a portion of the cartridge or refill cutting line 20 to pass through the inside so as to form a separating space between the molding sheet 1 and the covering film 2 in a passing part when the cartridge or refill package container 10A is torn off.

[0021] Hereinafter, a work of the present invention configured as above will be described below.

[0022] In the blister package of the present invention, as shown in FIG. 4, the case accommodation part 3, the content accommodation part 10, and the sample content accommodation part 30 may be protrudingly molded in an arbitrary form on the transparent molding sheet 1, in a next process, arbitrary contents A such as a salve type perfume available for long-term use are filled and accommodated in the case accommodation part 3, the case C having the cover C' which may be made of metal, plastic, ceramics, or glass is stored in the case accommodation part 3, and the sample contents A' of a prototype in development for release or a not-for-sale product which completed development are filled inside the sample content accommodation part 30.

[0023] After filling the contents A, the case C, and the sample contents A', the transparent or opaque covering film 2 may be attached to the back side of the molding sheet 1 in such a manner that openings of the case accommodation part 3, the content accommodation part 10, and the sample content accommodation part 30 are sealed.

[0024] Next, the cartridge or refill cutting line 20 and the sample notched line 40 are processed on the edge part of the content accommodation part 10 and the sample content accommodation part 30 in order to be individually separated and torn off from a main body where the case accommodation part 3 is located when necessary, thereby configuring the cartridge or refill package container 10A and the sample package container 30A.

[0025] The entire aforementioned processes are completed in a single manufacturing process in which manufacturing the cartridge or refill package container 10A, packaging the case C, and manufacturing the sample package container 30A are provided all together through a single configuration in a single processing line.

[0026] As above, a configuration which is completely

separable even with a slight external force for convenience in tearing off the cartridge or refill package container 10A is applied to the cartridge or refill cutting line 20, and a plurality of notched parts for connection 21 are on a portion of the cartridge or refill cutting line 20 in order to prevent the cartridge or refill package container 10A from unexpectedly separating and falling upon treatment, thereby being attached and not easily falling apart until a strong tearing force is intentionally applied.

[0027] The sample notched line 40 is processed to have the same configuration with the notched part for connection 21, thereby preventing an easy separation with a weak force and enabling tearing only when a user puts a relatively strong tearing force to forcibly tear it.

[0028] Meanwhile, the projecting part for opening guidance 50 is formed on the molding sheet 1 as shown in FIG. 2 and FIG. 3 so that a portion of the cartridge or refill cutting line 20 which starts to be torn off may pass. Here, the projecting part for opening guidance 50 may maintain separation from the covering film 2 through a space which is configured therein.

[0029] When the cartridge or refill cutting line 20 is separated in order to tear off the cartridge or refill package container 10A, a passing part of the projecting part for opening guidance 50 which is positioned inside where the cartridge or refill cutting line 20 is passed may be cut and separated together, and after separation, the cartridge or refill package container 10A has a gap with the covering film 2 as shown in FIG. 5 so as to rip off the covering film 2. Therefore, when the contents are in use, the covering film 2 can be promptly and simply removed so that it is possible to provide convenience in treatment.

[0030] Meanwhile, as shown in FIG. 5, when in use, the cartridge or refill package container 10A is cut and separated to be stored in the withdrawn case C while the cover C' of the case C is opened, and then the covering film 2 is removed to use the contents A, or the refill package container is opened and inserted into the case to use the contents A.

[0031] The sample package container 30A is used after being torn off by using the sample notched line 40, and then the sample contents A' are used after the covering film 2 is removed as shown in FIG. 6.

[0032] While the embodiments of the present invention has been described, it should be understood by those skilled in the art that various alternations and changes in form may be made therein without departing from the spirit and scope of the invention as defined by the appended claims.

Claims

1. A blister package capable of simultaneously storing a refill or cartridge type content package container and a case for accommodating the same in a known structure which is formed on a piece of a molding sheet (1) and has a case accommodation part (3) to

accommodate a case (C) having a cover (C') therein, and in which the molding sheet (1) has a covering film (2) attached on a back side thereof, the blister package comprising:

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a content accommodation part (10) formed on the molding sheet (1) to be filled with and accommodate contents (A);

a cartridge or refill cutting line (20) which is formed along a lower edge part of the content accommodation part (10), provides a flange part (11) on the content accommodation part (10), is configured to selectively enable an individual separation and tear-off on the molding sheet (1) and the covering film (2) so as to form an independent cartridge or refill package container (10A), and has a notched part for connection (21) at one part thereof;

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a sample content accommodation part (30) formed on the molding sheet (1) in order to be filled with and accommodate sample contents (A') of a prototype in development or a not-for-sale product which completed development; and

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a sample notched line (40) which is formed on the molding sheet (1) and configured to selectively enable the sample content accommodation part (30) to be individually separated and torn off on the molding sheet (1) and the covering film (2) so as to form an independent sample package container (30A).

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- 2. The blister package of claim 1, further comprising a projecting part for opening guidance (50) which protrudes from the molding sheet (1) and a portion of the cartridge or refill cutting line (20) passes through an upper surface part so as to form a separating space between the molding sheet (1) and the covering film (2) in a passing part when the cartridge or refill package container (10A) is torn off.

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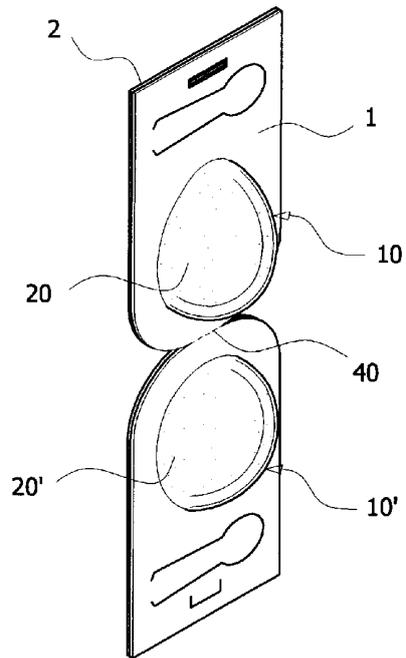
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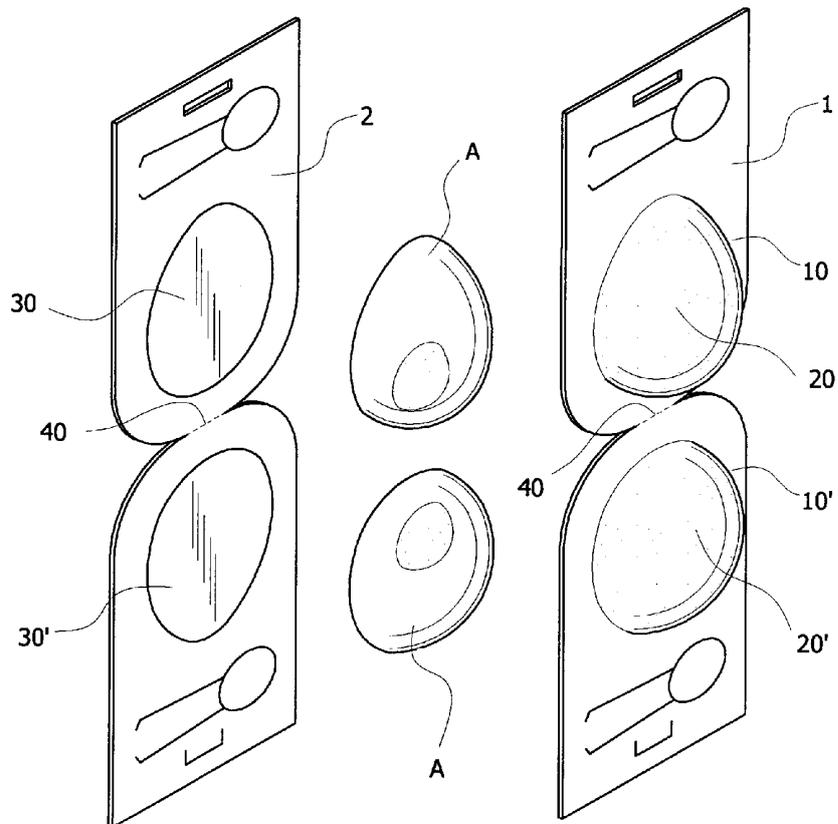
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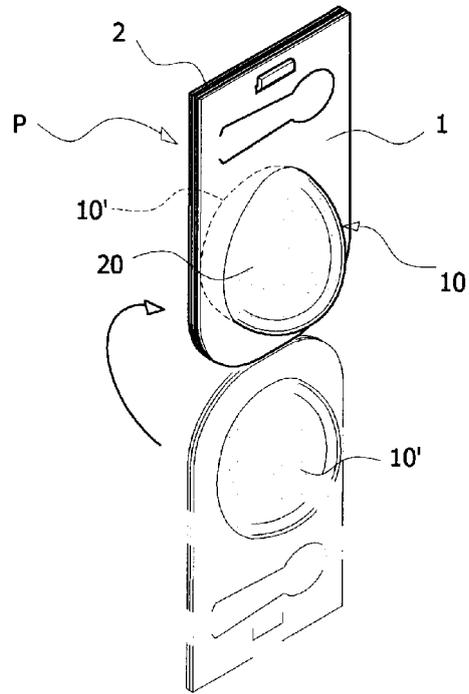
[Fig. 1]



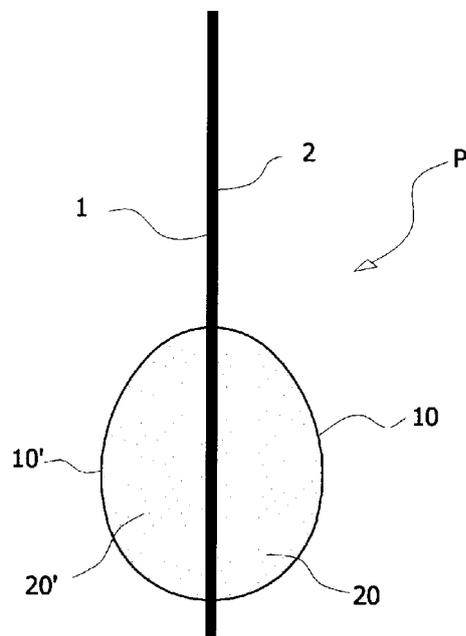
[Fig. 2]



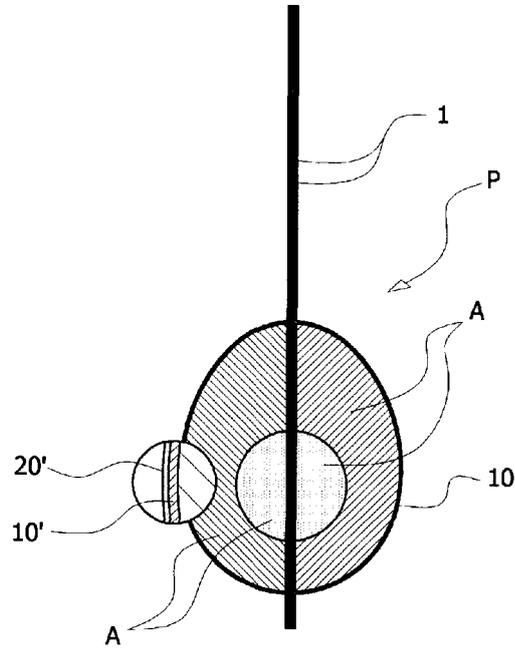
[Fig. 3]



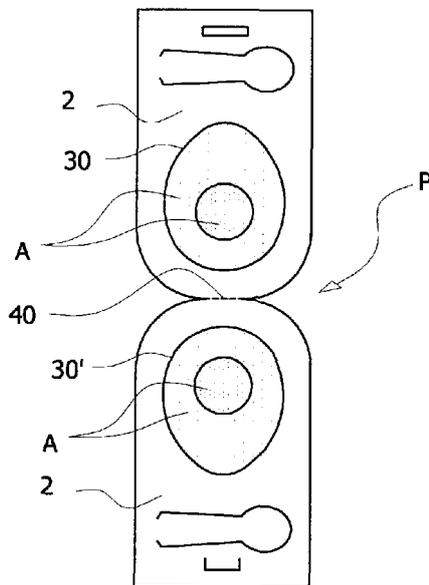
[Fig. 4]



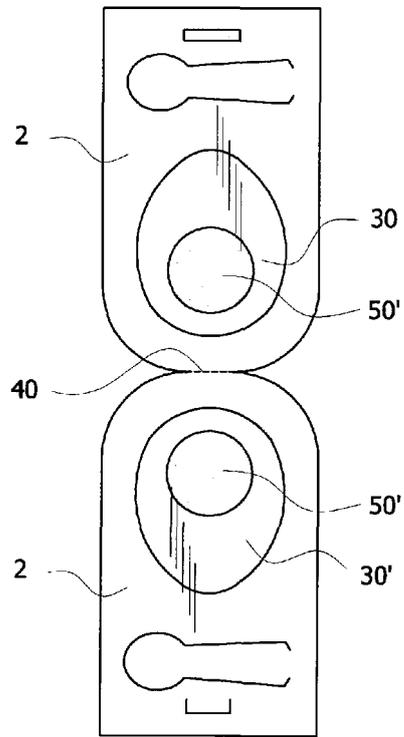
[Fig. 5]



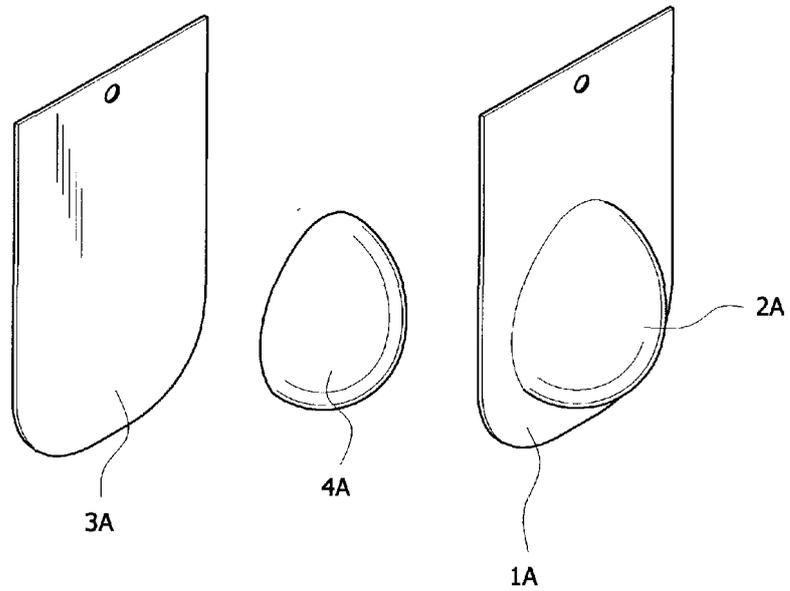
[Fig. 6]



[Fig. 7]



[Fig. 8]



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2014/012095

5	A. CLASSIFICATION OF SUBJECT MATTER <i>B65D 75/36(2006.01)i</i> According to International Patent Classification (IPC) or to both national classification and IPC	
	B. FIELDS SEARCHED	
10	Minimum documentation searched (classification system followed by classification symbols) B65D 75/36; B65D 75/32; B65D 77/30	
	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models: IPC as above Japanese Utility models and applications for Utility models: IPC as above	
15	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS (KIPO internal) & Keywords: "blister", "cut", "sheet", "film"	
	C. DOCUMENTS CONSIDERED TO BE RELEVANT	
20	Category*	Citation of document, with indication, where appropriate, of the relevant passages
		Relevant to claim No.
	A	KR 20-1996-0022407 U (LG CHEM, LTD.) 20 July 1996 See abstract and claim 1.
25	A	JP 3732261 B2 (MITSUBISHI PLASTICS CO., LTD.) 05 January 2006 See abstract and claim 1.
	A	JP 11-349042 A (HITACHI LIGHTING CO., LTD.) 21 December 1999 See abstract and claim 1.
30	A	JP 06-100024 A (DAINIPPON PRINTING CO., LTD.) 12 April 1994 See abstract and claim 1.
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40	<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" 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	
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50	Date of the actual completion of the international search 17 FEBRUARY 2015 (17.02.2015)	Date of mailing of the international search report 23 FEBRUARY 2015 (23.02.2015)
55	Name and mailing address of the ISA/KR  Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer Telephone No.

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2014/012095

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