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(54) **INDEPENDENT TEA BAG**

(57) The present disclosure relates to the technical field of tea packaging, and discloses a separate tea-bag packaging which comprises a tea bag (10). The tea bag (10) comprises a bag body (101), a connecting member (102) and a hanging tag (103). One end of the connecting member (102) is connected to the bag body (101), and the other end of the connecting member (102) is connected to the hanging tag (103). The hanging tag (103) is made of bendable shape-shifting material, and is configured as a containing packing bag (1031); the bag body (101) and the connecting member (102) are included in the containing packing bag (1031). The disclosure provides a separate tea-bag packaging which is used a big-sized hanging tag (103) being fold itself and fixed with a teacup, and then being fold in a three-dimensional manner to wrap various of tea bags (10), especially the granular tea bag (10), thus forming a closed and safe tea bag (10) product, thereby reducing waste of resources.

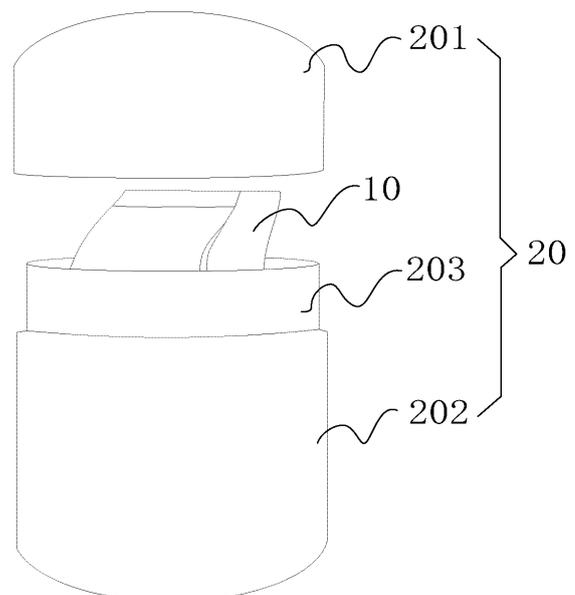


Fig.1

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Description

TECHNICAL FIELD

[0001] The present disclosure relates to a technical field of tea packaging, and in particular to a separate tea-bag packaging.

BACKGROUND

[0002] A separate tea-bag packaging product on the market usually consists of a tea bag and a separate outer packing bag. The tea bag comprises a hanging tag and a bag body connected to the hanging tag. The common hanging tag is mostly designed as a small-sized paper hanging tag, and included in a separate outer packing bag after being connected to the bag body with a hanging string. The hanging tag is hung outside a teacup by the hanging string while using, for pulling the bag body from the teacup. In general, in order to reduce the size of a hanging tag and to lower production cost, the shape of a hanging tag is usually designed rather small.

[0003] The outer packing bag for a tea-bag product is mostly a separate and soft packing. The outer packing bag is used to protect a tea bag from outside pollution, and can prevent tea leaves inside the tea bag from dampness and oxidation to a certain extent. This separate and soft packing is mostly made of paper material and is discarded immediately after being torn, as a disposable consumable, thus often causing waste of resources.

SUMMARY

[0004] The present disclosure provides a separate tea-bag packaging for solving a technical problem that the commonly-used outer packaging bag for a tea bag is too soft to protect tea leaves and easy to cause the waste of resources, and it aims to solve the above technical problem at least to a certain extent.

[0005] In order to achieve the above purposes, the present application provides a separate tea-bag packaging that comprises: a tea bag including a bag body, a connecting member and a hanging tag, wherein one end of the connecting member is connected to the bag body, and the other end of the connecting member is connected to the hanging tag; the hanging tag is made of bendable shape-shifting material and configured as a containing packing bag, the bag body and the connecting member is arranged in the containing packing bag.

[0006] According to the preferred technical solution of the present application: the bag body comprises a soft packing bag and tea leaves being included in the soft packing bag; the bag body and the connecting member are placed on the hanging tag, being fold with the hanging tag toward one side of the hanging tag, after being mechanically pressed, the bag body and the connecting member being included in the containing packing bag formed by the hanging tag.

[0007] According to the preferred technical solution of the present application: the containing packing bag is provided with a tearing member and an opening for easily tearing the tearing member.

[0008] According to the preferred technical solution of the present application: the hanging tag is able to be bent to any angles.

[0009] According to the preferred technical solution of the present application: the hanging tag is made of aluminum foil paper material.

[0010] According to the preferred technical solution of the present application: the separate tea-bag packaging further comprises a capsule housing which includes a capsule cap and a capsule body matching with the capsule cap, and the containing packing bag is positioned in the capsule housing.

[0011] According to the preferred technical solution of the present application: the capsule housing further comprises a capsule upper-lower connecting member which is arranged between the capsule body and the capsule cap, the containing packing bag is arranged through the capsule upper-lower connecting member.

[0012] According to the preferred technical solution of the present application: the capsule upper-lower connecting member is integrally formed or fixedly connected to the capsule body; in the case that the capsule upper-lower connecting member is integrally formed with the capsule body, the capsule upper-lower connecting member is arranged at the upper end of the capsule body, thus forming a stepped surface with the capsule body, and the capsule upper-lower connecting member is inserted into the capsule cap; in the case that the capsule upper-lower connecting member is fixedly connected to the capsule body, the capsule housing further comprises a rubber member; an upper notch is arranged on the capsule cap, and a lower notch is arranged on the capsule body; one end of the rubber member is connected to the upper notch, the other end of the rubber member is connected to the lower notch, the capsule upper-lower connecting member is nested into the capsule body.

[0013] According to the preferred technical solution of the present application: the tea leaves are granular tea leaves.

[0014] According to the preferred technical solution of the present application: the connecting member is a hanging string.

[0015] The beneficial effects of the application : By providing a separate tea-bag packaging, a big-sized hanging tag is used to fold in a three-dimensional manner to wrap various of tea bags, especially a granular tea bag, thus to form a closed and safe tea bag product, thereby reducing waste of resources.

BRIEF DESCRIPTION OF THE DRAWINGS

[0016]

FIG. 1 is a schematic view of the structure of the

separate tea-bag packaging when the capsule cap is opened according to the present disclosure.

FIG. 2 is a schematic view of the structure of the tea bag.

FIG.3 is a schematic view of the structure of the containing packing bag.

FIG. 4 is a using state view of the tea bag when the teacup has no cup handle.

FIG. 5 is a using state view of the tea bag when the teacup has a cup handle.

FIG. 6 is a first schematic view of the structure of the capsule housing.

FIG. 7 is a second schematic view of the structure of the capsule housing.

tea bag 10,
 bag body 101,
 soft packing bag 1011,
 connecting member 102,
 hanging tag 103,
 containing packing bag 1031,
 tearing member 10311,
 opening 10312,
 capsule housing 20,
 capsule cap 201,
 upper notch 2011,
 capsule body 202,
 lower notch 2021,
 capsule upper-lower connecting member 203,
 rubber member 204.

DETAILED DESCRIPTION OF THE EXEMPLARY EMBODIMENTS

[0017] The embodiments of the present application are described in detail as below, and the examples of the embodiments are illustrated in the drawings, wherein the same or similar reference numerals from the beginning to the end are used to refer to the same or similar elements or elements having the same or similar functions. The embodiments described below with reference to the drawings are exemplary, aiming to illustrate the application, but not to be interpreted as limiting to the application.

[0018] In the description of the present disclosure, the terms "center", "longitudinal", "transverse", "length", "width", "thickness", "upper", "lower", "front", "back", "right", "left", "vertical", "horizontal", "top", "bottom", "inside", "outside", "clockwise", "counterclockwise", etc. indicating the direction or position relationship are based on the direction or position relationship shown in the drawings, and those terms are just convenient to describe the disclosure and to simplify the description, but not to indicate or imply that the device or the component

must have a specific direction, or have been constructed and operated in a specific direction. Therefore, it should not be interpreted as limiting to the present application.

[0019] In addition, the purpose of the terms "first" and "second" is barely for description, but not to be interpreted as indicating or implying relative importance or implicitly indicating the number of indicated technical features. Therefore, the features defined as "first" and "second" may include explicitly or implicitly one or more features. In the description of the disclosure, the meaning of "a plurality of" refers to two or more than two unless there are the other specific definitions.

[0020] In the present disclosure, unless otherwise expressly provided and defined herein, the terms "arrange", "connect", "connect to", "fix", etc. should be interpreted broadly, for example, may be fixedly connected, detachably connected, or integrally connected; may be mechanically connected, or electrically connected; may be directly connected, or may be indirectly connected through an intermediate medium, and may be internally connected between two elements. The specific meanings of the above terms in the present application can be understood according to specific cases by those skilled in the art.

[0021] In the present disclosure, unless otherwise expressly provided and defined herein, a first feature being "on" or "under" a second feature may include the first feature directly contacting with the second feature, and may also include the first feature indirectly contacting with the second features through other features between the first feature and the second feature. Besides, the first feature being "over", "above" and "on the upper side of" the second feature includes the first feature being over the second feature and being above the second feature, or only indicates that the level of the first feature is higher than the second feature. The first feature being "below", "at the bottom of", and "under" the second feature includes that the first feature is directly below and under the second feature, or only indicates that the level of first feature level is less than the second feature.

[0022] The present disclosure will be further described in detail below with reference to the drawings.

[0023] As shown in FIG. 1 and FIG. 2, the embodiment provides a separate tea-bag packaging, comprising a tea bag. The tea bag comprises a bag body 101, a connecting member 102, and a hanging tag 103, three of them are collectively referred as the tea bag 10 herein. One end of the connecting member 102 is connected to the bag body 101 through mechanically pressing processing. Super glue is arranged at the center position of the upper surface of the hanging tag 103, and the other end of the connecting member 102 is connected to the super glue.

[0024] It should be noted that, the separate tea-bag packaging product on the market usually consists of a tea bag 10 with a hanging tag 103 and a separate outer packing bag. The outer packaging of the tea bag 10 is mostly a separate outer packing bag, which is generally made of paper material; meanwhile, the outer packing bag is discarded at once after being torn for use, thereby

causing the waste of resources. In this embodiment, the hanging tag 103 is made of bendable shape-shifting material, and is designed as a containing packing bag 1031, therefore the hanging tag 103 has two functions at the same time. The bag body 101 and the connecting member 102 are included in the containing packing bag 1031. The containing packing bag 1031 is used to protect the tea bag 10 from outside pollution, and to prevent the tea bag 10 from dampness and oxidization to a certain extent. The hanging tag 103 is fold in a three-dimensional manner to wrap the tea bag 10, thereby forming a closed and safe bag tea product, which replaces the present soft paper packing bags and thus saves resources.

[0025] The hanging tag 103 on the tea bag 10 is mostly a small-sized paper tag 103. After connecting to the body 101 through the connecting member 102, the hanging tag 103 is placed in the separate outer packing. The hanging tag 103 is hung outside the teacup by the connecting member 102, in using state, for pulling the bag body 101 from the teacup. In order to reduce the size of the hanging tag 103 and to reduce the production cost, the shape of the hanging tag 103 is designed relatively small. However, the small-sized hanging tag 103 is not convenient to display the information of the tea product. Meanwhile, as the hanging tag 103 is of light weight, the hanging tag 103 is easy to fall into the teacup when in use and to get wet by the tea water through the connecting member 102 after a long time of soaking. Therefore, in the embodiment, the hanging tag 103 is bigger than those used in reality, and the big-sized hanging tag 103 can fully display the information of the tea product.

[0026] Specifically, the bag body 101 comprises a soft packing bag 1011 and tea leaves placed in the soft packing bag 1011. The bag body 101 and the connecting member 102 are placed together on an edge of one side of the upper surface of the hanging tag 103, the bag body 101 and the connecting member 102 together with the hanging tag 103 are folded toward one side of the hanging tag 103 several times and form a bundling structure, both ends and one side are mechanically pressed and performed with a sealing process, thus packing the tea bag 10 with granular tea inside safely, preventing dampness and oxidation. Thus, the bag body 101 and the connecting member 102 can be placed in the containing packing bag 1031 formed by the hanging tag 103. In the embodiment, the big-sized hanging tag 103 is folded and pressed, and then used to wrap and seal the bag body 101.

[0027] As shown in FIG. 3, in the embodiment, a tearing member 10311 and an opening 10312 for easily tearing the tearing member 10311 are arranged at one side of the containing packing bag 1031. At the end of the packing bag 1031 being folded, the tearing member 10311 is formed by the protruding hanging tag 103. When using the tea bag 10 product, the containing packing bag 1031 formed by the hanging tag 103 can be torn fully through the tearing position on the tearing member 10311 reserved by the hanging tag 103. It should be noted that

the method of tearing the containing packing bag 1031 is to tear from the upper and lower sides, but not from the left and right sides. The tea product information is fully displayed after the hanging tag 103 is expanded, wherein statutory information related to the tea bag 10 is displayed on the outer side of the hanging tag 103, while cultural information of the tea product is displayed on the inner side of the hanging tag 103.

[0028] As shown in FIG. 4 and FIG. 5, after tearing the hanging tag 103, the hanging tag 103 can be bent to any angle, and can be fixed with the teacup, thus can fix the tea bag 10 and prevent the hanging tag 103 from slipping into tea water. Specifically, when the teacup does not have a handle, the hanging tag 103 is folded and fixed on the edge of the cup. When the teacup has a handle, the hanging tag 103 is folded and combined with the handle of the teacup, thus to fix the tea bag 10. The purpose of combining the hanging tag 103 with the cup is to make the drinking of the product convenient.

[0029] In the embodiment, the hanging tag 103 is made of aluminum foil paper material, and the hard aluminum foil paper can be bent to an ideal shape. The aluminum foil paper is soft and not easy to change its form as paper, will not rebound or recover to original form after deformation, can keep a shape, and of light preventing, not dropping, light-proof, no pollution, low price, preventing dampness and providing decorative packaging for high-grade cigarettes and candies.

[0030] As the structure and shape of the outer packing of the tea bag 10 is mostly flat-shaped, the outer packing is not easy to protect the tea leaves in the tea bag 10, especially in the case of granular tea leaves, and is not suitable for carrying around, the separate tea-bag packaging of the embodiment further comprises a capsule housing 20. The outer packing of the tea bag 10 is used in a hard "capsule" shape, by matching with a hard capsule shape housing to form a stable packing structure, thereby protecting the tea bag 10, further protecting the tea leaves inside bag body 101 not easily broken. The capsule housing 20 includes a capsule body 202 and a capsule cap 201, the containing packing bag 1031 is inserted into the capsule body 202, and the capsule cap 201 is arranged on the capsule body 202.

[0031] Specifically, the capsule housing 20 further comprises a capsule upper-lower connecting member 203, which is a ring-shaped housing, and the capsule upper-lower connecting member 203 is arranged between the capsule body 202 and the capsule cap 201. The containing packing bag 1031 is inserted through the capsule upper-lower connecting member 203, and the tea bag 10 is arranged into the capsule, thereby forming a separate and safe tea bag packing.

[0032] As shown in FIG. 6 and FIG. 7, the capsule housing 20 comprises two structural forms: the capsule upper-lower connecting member 203 is integrally formed with the capsule body 202, or the capsule upper-lower connecting member 203 is fixedly connected with the capsule body 202. The methods of opening the two struc-

tural forms are respectively a pulling type and an unplugging type, leading to a closed and safe internal packing environment. The tea leaves in the capsule housing 20 are easy to open and carry, besides, the capsule housing 20 can also be reused for many times.

[0033] Specifically, when the capsule upper-lower connecting member 203 is integrally formed with the capsule body 202, the capsule upper-lower connecting member 203 is arranged at the upper end of the capsule body 202, thus to form a stepped surface with the capsule body 202. The capsule upper-lower connecting member 203 is inserted into the capsule cap 201, and the opening method thereof is the pulling type.

[0034] When the capsule upper-lower connecting member 203 is fixedly connected to the capsule body 202, the capsule housing 20 further comprises a rubber member 204. An upper notch 2011 is arranged on the capsule cap 201, and a lower notch 2021 is arranged on the capsule body 202. An end of the rubber member 204 is connected to the upper notch 2011, the other end of the rubber member 204 is connected to the lower notch 2021. A ring-shaped convex member is arranged in the capsule body 202, the capsule upper-lower connecting member 203 is nested with the convex member of the capsule body 202, and the opening method thereof is the unplugging type.

[0035] There is another capsule housing 20 when the capsule upper-lower connecting member 203 is fixedly connected to the capsule body 202. The capsule upper-lower connecting member 203 is provided with a bulgy positioning block, the capsule cap 201 is provided with an upper slot, and the capsule body 202 is provided with a lower slot. The upper slot is matched with the lower slot to form a positioning slot, and the positioning block is stuck in the positioning slot.

[0036] There are various of separate tea-bag packaging products, such as Lipton and Twinings Bag Tea. In general, the outer packing of those bag tea productions are configured as flat-shaped outer packing of traditional tea bags, and the tea leaves in the bag body 101 are powdery leaves or leaf shape, or granular leaves. In the embodiment, the tea leaves in the separate tea-bag packaging are mainly granular tea leaves. The tea packing weighs 1.5 g/bag so the weight is relatively light, and the amount of tea leaves is suitable for one-time drinking.

[0037] In the embodiment, the connecting member 102 is a hanging string, which has the advantages of low cost, and reducing the total price of the whole tea bag 10.

[0038] By providing a separate tea-bag packaging with a big-sized hanging tag 103, the big-sized hanging tag 103 itself is used to fold in a three-dimensional manner to wrap various of tea bags 10, especially the granular tea bag 10, thus to form a closed and safe bag tea product, thereby reducing waste of resources. Meanwhile, the tea bag 10 is matched with a hard capsule shape packing housing, which can further protect the tea bag 10 from being crushed easily. The hanging tag 103 can be fixed with the teacup by folding on the tea bag 103

after the tea bag 103 is expended, thus to fix the tea bag 10.

[0039] In the descriptions of the present specification, the description of the reference terms "one implementation", "some implementations", "one embodiment", "some embodiments", "example", "specific example", or "some examples", etc., means combining the embodiment, or specific features, structures, materials, or characteristics described in the embodiment with at least an embodiment or example of the present application. In the present specification, the schematic representation of the above terms does not necessarily refer to the same embodiment or example. Furthermore, the specific features, structures, materials, or characteristics described may be combined in a suitable method in any one or more embodiments or examples.

[0040] The above descriptions are further detailed descriptions of the present application with reference to the specific embodiments, but not limit to the descriptions. A plurality of simple derivations or substitutions still can be made therein by those skilled in the art without departing from the conception of the present application.

Claims

1. A separate tea-bag packaging, comprises: a tea bag, including a bag body, a connecting member and a hanging tag, wherein one end of the connecting member is connected to the bag body, and the other end of the connecting member is connected to the hanging tag; the hanging tag is made of bendable shape-shifting material and configured as a containing packing bag, the bag body and the connecting member is arranged in the containing packing bag.
2. The separate tea-bag packaging according to claim 1, wherein the bag body comprises a soft packing bag and tea leaves being included in the soft packing bag; the bag body and the connecting member are placed on the hanging tag, being fold with the hanging tag toward one side of the hanging tag, after being mechanically pressed, the bag body and the connecting member being included in the containing packing bag formed by the hanging tag.
3. The separate tea-bag packaging according to claim 2, wherein the containing packing bag is provided with a tearing member and an opening for easily tearing the tearing member.
4. The separate tea-bag packaging according to claim 3, wherein the hanging tag is able to be bent to any angles.
5. The separate tea-bag packaging according to claim 4, wherein the hanging tag is made of aluminum foil

paper material.

6. The separate tea-bag packaging according to claim 5, wherein the separate tea-bag packaging further comprises a capsule housing which includes a capsule cap and a capsule body matching with the capsule cap, and the containing packing bag is positioned in the capsule housing. 5

7. The separate tea-bag packaging according to claim 6, wherein the capsule housing further comprises a capsule upper-lower connecting member which is arranged between the capsule body and the capsule cap, the containing packing bag is arranged through the capsule upper-lower connecting member. 10 15

8. The separate tea-bag packaging according to claim 7, wherein the capsule upper-lower connecting member is integrally formed or fixedly connected to the capsule body; 20
 in the case that the capsule upper-lower connecting member is integrally formed with the capsule body, the capsule upper-lower connecting member is arranged at the upper end of the capsule body, thus forming a stepped surface with the capsule body, 25
 and the capsule upper-lower connecting member is inserted into the capsule cap;
 in the case that the capsule upper-lower connecting member is fixedly connected to the capsule body, the capsule housing further comprises a rubber member; an upper notch is arranged on the capsule cap, and a lower notch is arranged on the capsule body; one end of the rubber member is connected to the upper notch, the other end of the rubber member is connected to the lower notch, the capsule upper-lower connecting member is nested into the capsule body. 30 35

9. The separate tea-bag packaging according to claim 2, wherein the tea leaves are granular tea leaves. 40

10. The separate tea-bag packaging according to claim 1, wherein the connecting member is a hanging string. 45

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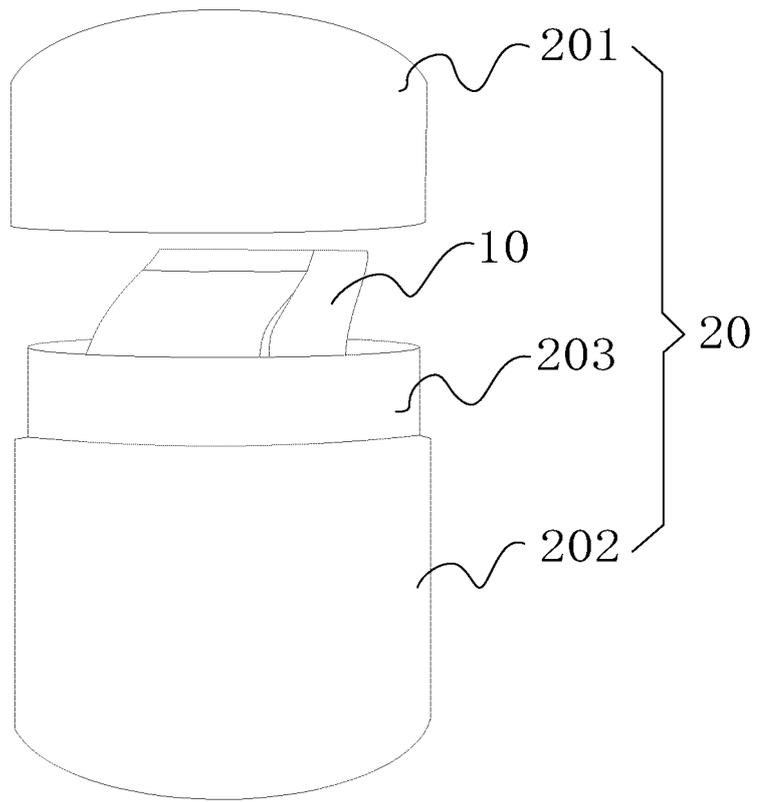


Fig.1

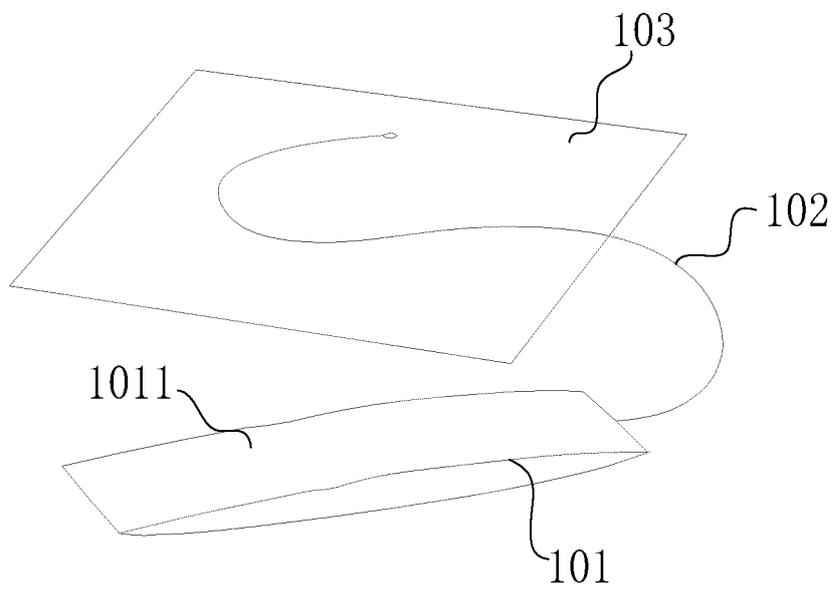


Fig.2

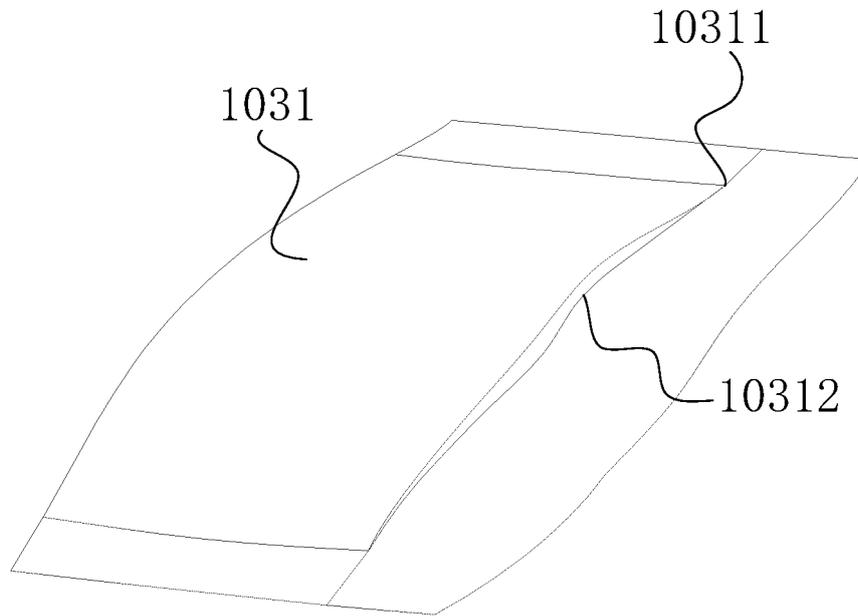


Fig.3

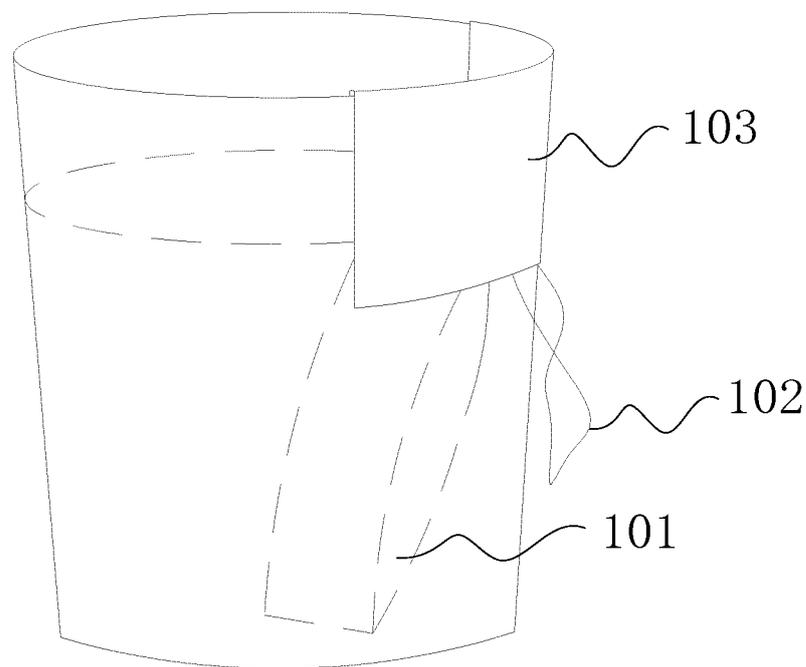


Fig.4

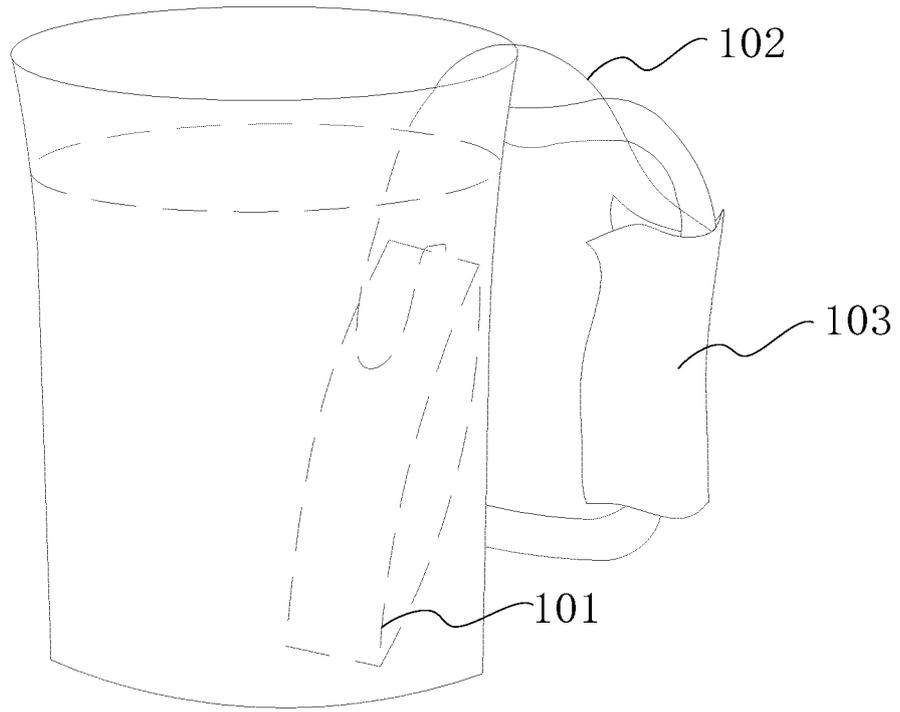


Fig.5

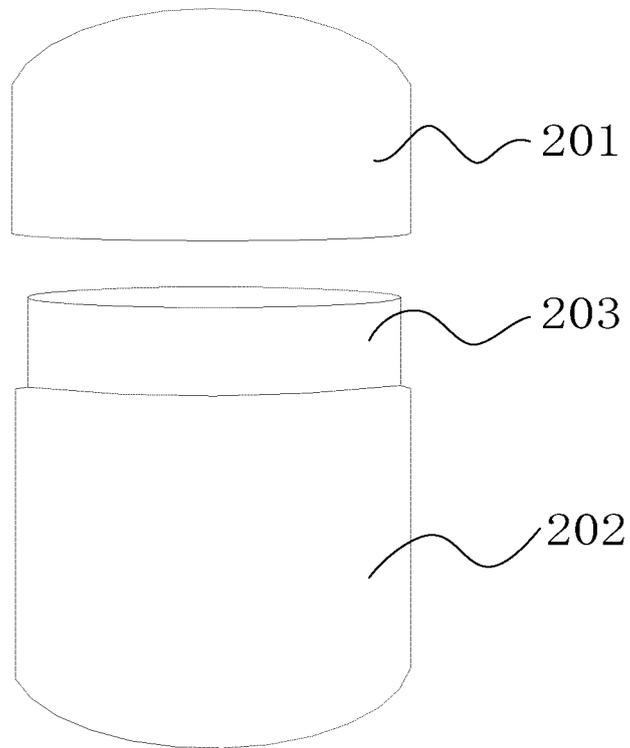


Fig.6

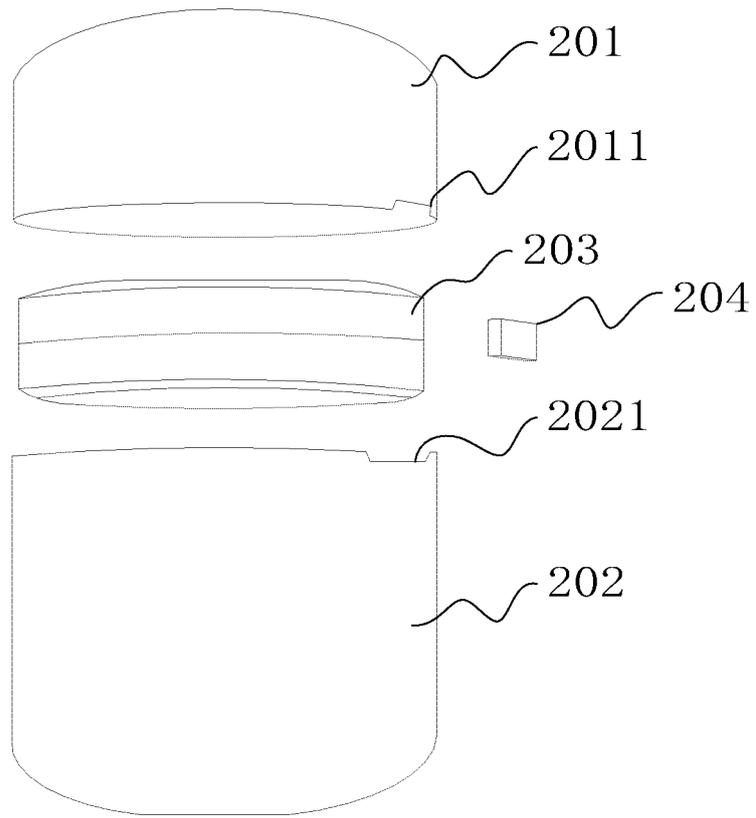


Fig7

INTERNATIONAL SEARCH REPORT

International application No.
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5	A. CLASSIFICATION OF SUBJECT MATTER	
	B65D 85/812 (2006.01) i	
	According to International Patent Classification (IPC) or to both national classification and IPC	
10	B. FIELDS SEARCHED	
	Minimum documentation searched (classification system followed by classification symbols)	
	B65D	
15	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)	
	CNABS, SIPOABS, CNKI: 节约, 方便, 便利, 环保, 浪费; sav+, waste, economy	
20	C. DOCUMENTS CONSIDERED TO BE RELEVANT	
	Category*	Citation of document, with indication, where appropriate, of the relevant passages
		Relevant to claim No.
25	X	CN 201761818 U (CHEN, Hu), 16 March 2011 (16.03.2011), description, paragraphs 0004-0007, and figure 1
	A	CN 204297388 U (QINGDAO AGRICULTURAL UNIVERSITY), 29 April 2015 (29.04.2015), entire document
	A	CN 201325708 Y (WANG, Jiu jin), 14 October 2009 (14.10.2009), entire document
	A	CN 205060483 U (GAO, Junjian; WU, Yanyan), 02 March 2016 (02.03.2016), entire document
30	A	DE 20316571 U1 (MAGNA TERRA B V), 24 December 2003 (24.12.2003), entire document
	A	CN 104108543 A (ZHEJIANG TEAWORLD FOOD CO., LTD.), 22 October 2014 (22.10.2014), entire document
35	<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.	
40	* Special categories of cited documents:	“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
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	“P” document published prior to the international filing date but later than the priority date claimed	
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	06 August 2017	31 August 2017
55	Name and mailing address of the ISA State Intellectual Property Office of the P. R. China No. 6, Xitucheng Road, Jimenqiao Haidian District, Beijing 100088, China Facsimile No. (86-10) 62019451	Authorized officer GONG, Jianhong Telephone No. (86-10) 62085265

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT
 Information on patent family members

International application No.
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Patent Documents referred in the Report	Publication Date	Patent Family	Publication Date
CN 201761818 U	16 March 2011	None	
CN 204297388 U	29 April 2015	None	
CN 201325708 Y	14 October 2009	None	
CN 205060483 U	02 March 2016	None	
DE 20316571 U1	24 December 2003	None	
CN 104108543 A	22 October 2014	None	

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