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(54) **Nestable U-shaped Lid and Base Assembly**

Zusammenfügbare U-förmige Baugruppe mit Deckel und Basis

Couvercle et base gerbables en form de U

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Description

[0001] The invention starts from the features of the preamble of claim 1, namely, is an assembly formed by a nestable U-shaped lid and base, forming what is also known as a display box, which are boxes that are initially used to transport products and subsequently, on arrival at the distribution point, can be used as a display box after removing a part of the box.

[0002] The special configuration and design of each of the parts forming the nestable U-shaped lid and base assembly characterise the invention herein, such that a securely closed assembly is obtained for transporting the products contained inside the base, and on the other hand, a display box is easily achieved by removing the nestable U-shaped lid, without any of the parts that make up the assembly becoming torn, detached or broken.

[0003] Therefore, this invention is confined to within the scope of the assemblies that can be used both for transporting and for displaying during sale, by separating a part of the assembly.

BACKGROUND OF THE INVENTION

[0004] Transport and display packaging, especially for products intended for mass distribution and consisting of two parts, are widely known in the state of the art.

[0005] One of the parts serves as the base, on which the product contained is placed and which is **characterised in that** it is open at the upper part for convenient access to the product.

[0006] The other of the parts is a lid having an inverted "U" shape, simply covering the top of the base and rests on the sides.

[0007] This configuration known in the prior art is very convenient since handling the box only involves removing the U-shaped lid and the base remains completely cut and clean at all its edges, since no tearing or detachment has been produced, thus providing a clean look on the shelving.

[0008] However, this configuration of separated base and lid not being connected, is the result of problems, as the assemblies are difficult to handle during transportation, since the box has to be carried by the bottom, and if the box falls or is not perfectly positioned, the products contained inside, apart from becoming damaged, may fall out. In these cases, sealing is necessary, which leads to the loss of the advantages of having two separate parts, in addition to impeding the advantages of replenishing and cleaning the base.

[0009] In the state of the art is known the patent DE 2137598 which discloses a blank of stiff sheet material having two substantially longitudinal edges and including three quadrilateral members, namely a central member and two adjacent outer members located on either side of the central member; each outer member being foldable relative to the central member; and a number of suitably arranged engaging tabs projecting away from the mem-

bers for connecting the blank, when folded, to a similar blank thus forming a box.

[0010] Therefore, it is an object of the invention to develop a display assembly formed by a base and a U-shaped lid that overcomes the drawbacks pointed out, developing an assembly like the one described below and its essential nature is contained in the first claim.

DESCRIPTION OF THE INVENTION

[0011] It is an object of the invention to provide a nestable U-shaped lid and base assembly, comprising a base having a generally parallelepiped shape, which is open at the front and upper part, defining an accessible interior space in which the products to be transported and subsequently displayed for sale are contained.

[0012] It further comprises a U-shaped lid which comprises three sections or parts arranged one after the other separated by a number of scored lines and can be used, on the one hand, to cover the open parts of the base, i.e., the front and top part, and on the other hand, to be fixed on the base.

[0013] The fasteners of the U-shaped lid on the base are removable fasteners and can be re-fixed without becoming detached or broken at any of the parts.

[0014] The U-shaped lid not only seeks to cover the base but also to protect the products contained therein from potentially falling out, therefore the lid and the base have supporting means that cooperate to secure the lid on the base in a removable manner, i.e. it can be separated and can be recovered, i.e. the lid can be re-attached to the base, all this without causing any tearing, breaking or detaching between both parts, ensuring the quality of the container forming the base, which ultimately serves as a display, is not damaged or affected once it reaches the point of sale due to breakages, tears or detaching.

[0015] In order to fix the lid on the base, effective means of attachment have been sought, in which a number of the means will be on the back of the base, while the other fastening means are on the front of the base, achieving fastening means that ensure that the lid is fixed to the base.

EXPLANATION OF THE FIGURES

[0016] As a complement of the description being made and for a better understanding of the features of the invention, according to a preferred example of a practical embodiment thereof, attached as an integral part of the aforementioned description is a set of drawings where, for purposes of illustration and in a non-limiting manner, the following is shown:

In Figure 1, a perspective view of a base can be seen, wherein part of the fastening means arranged on the back of the base can be seen.

In Figure 2, the front of the base and the part of the

fastening means arranged on the base can be seen.

Figure 3 shows a plan and perspective view of the U-shaped lid with the means arranged on the lid for fixing on the base.

Figure 4 shows how the fastening means arranged on the back of the assembly work.

Figure 5 shows the front of the box and how the fastening means arranged on the front of the assembly work and operate together.

PREFERRED EMBODIMENT OF THE INVENTION

[0017] In view of the figures, a preferred embodiment of the proposed invention is described below.

[0018] Figure 1 shows a base (1) which, as noted above, has a generally parallelepiped shape having an upper part (2) and a front part (3), which are both open, such that after removing the lid, the products housed inside the base can be easily accessed.

[0019] That part that is open and through which the base can be accessed is what is referred to as the front part of the base, while the back is the part facing the front.

[0020] It is observed that a possible embodiment of the fastening means between the lid and the base arranged on the back of the base consists of a foldable flap (5) of a generally, although non-limiting, square shape that is shaped as a result of three consecutive cuts (5.1) and a scored line (5.2) through which the flap (5) is folded.

[0021] Figure 2 shows part of the fastening means of the lid on the base (1), corresponding with the latter and which consist, in one possible embodiment, of the arrangement of a number of lateral windows (6) in the vicinity of the front corners.

[0022] Figure 3 shows the lid (7), as can be seen, comprises three consecutively aligned parts or sectors, namely, a first part (7.1), a second part (7.2) and a third part (7.3) separated by a number of transverse, scored lines, such that the first part (7.1) that is arranged on the back of the base (1), the second part (7.2) that is arranged on upper part of the base (1) can be configured, while the third part (7.3) is arranged on the front of the base (1).

[0023] The lid (7) has fastening means cooperative with the means arranged on the base, and comprising on the first part (7.1), in a possible embodiment, a window (7.4) slightly larger in size than the foldable flap (5) defined at the back of the base on the first part (7.1), while the third part (7.3) has, in a possible embodiment, a number of tabs (7.5) emerging laterally, near the free vertices of the third part (7.3). The aforementioned tabs preferably have a trapezoidal shape and dimensions such that they can pass through the windows (6) on the front of the base (1).

[0024] In Figure 4, a possible way of attaching the lid on the base can be seen, inserting the first part (7.1) inside the base (1) and by attaching said first part (7.1)

against the inside face of the back of the base (1), making the folding tab (5) pass through the window (7.4). This operation can be performed with or without a product housed inside the base, considering that to do this, it should have some flexibility to allow the tab to be inserted.

[0025] In the representations that comprise Figure 5, the final process of fixing the U-shaped lid to the base (1) can be seen, wherein the folding of the second part (7.2) with respect to the first part (7.1) takes place so it is arranged on the upper part of the base, and additionally the folding of the front part (7.3) housing it inside the base and making the tabs (7.5) pass through the lateral (6) windows.

[0026] Thanks to the configuration of both the base and the lid, the dual purpose is achieved, on the one hand, to securely close the base without any products contained therein falling out, and on the other hand, to achieve a display base wherein the separable part is completed without causing any breakages, tears or detaching that may damage the display assembly.

Claims

1. Nestable U-shaped lid and base assembly comprising a separate base (1) and a lid (7), wherein the base has a general parallelepiped shape formed by a bottom, two lateral walls, a front, a rear part and an upper part, wherein the upper part (2) is open and the front part (3) is partially open, wherein the lid (7) comprises three consecutively aligned parts or sectors, a first part (7.1), a second part (7.2) and a third part (7.3) separated by transverse, scored lines, both the base (1) and the lid (7) having cooperative fastening means arranged on the back of the assembly and on the front of the assembly, wherein:

the fastening means arranged on the front of the assembly comprise:

- a number of lateral windows (6) close to the front corners and adjacent to the bottom of the base (1),
- on the third part (7.3) of the lid (7), a number of tabs (7.5) emerging laterally close to the free vertices of the third part (7.3),

the fastening means arranged on the back of the assembly comprise:

- a foldable flap (5) on the back part of the base (1),
- a window (7.4) on the first part (7.1) of the lid (7),

characterized in that

- the window (7.4) is slightly larger in size

than the foldable flap (5) defined in the back of the base (1).

- and the foldable flap (5) and the window (7.4) are arranged coincident when the U-shaped lid is nested in the base(1).

2. Nestable U-shaped lid and base assembly according to claim 1, **characterised in that** the foldable flap (5) has a generally square shape that is formed as a result of three consecutive cuts (5.1) and a score line (5.2) through which the flap (5) is folded, while the window (7.4) is a square window.

3. Nestable U-shaped lid and base assembly according to claim 1, **characterised in that** the tabs (7.5) have a trapezoidal shape.

Patentansprüche

1. Zusammenfügbare U-förmige Baugruppe mit Deckel und Basis, umfassend eine separate Basis (1) und einen Deckel (7), wobei die Basis eine im Allgemeinen parallelepiped Form aufweist, ausgebildet durch einen Boden, zwei Seitenwände, einen vorderen, einen hinteren Teil und einen oberen Teil, wobei der obere Teil (2) offen ist und der vordere Teil (3) teilweise offen ist, wobei der Deckel (7) drei hintereinander ausgerichtete Teile oder Abschnitte umfasst, einen ersten Teil (7.1), einen zweiten Teil (7.2) und einen dritten Teil (7.3), die durch quer verlaufende, angerissene Linien getrennt sind, wobei sowohl die Basis (1) als auch der Decke (7) zusammenwirkende Befestigungsmittel an der Rückseite der Baugruppe und an der Vorderseite der Baugruppe angeordnet aufweisen, wobei:

die an der Vorderseite der Baugruppe angeordneten Befestigungsmittel umfassen:

- eine Anzahl von lateralen Fenstern (6) nahe den vorderen Ecken und neben dem Boden der Basis (1),
- eine Anzahl von Laschen (7.5), die lateral nahe den freien Scheitelpunkten des dritten Teils (7.3) heraustreten, an dem dritten Teil (7.3) des Deckels (7),

die an der Rückseite der Baugruppe angeordneten Befestigungsmittel umfassen:

- eine faltbare Klappe (5) am hinteren Teil der Basis (1),
- ein Fenster (7.4) am ersten Teil (7.1) des Deckels (7),

dadurch gekennzeichnet, dass

- das Fenster (7.4) etwas größer ist als die im hinteren Teil der Basis (1) definierte faltbare Klappe (5)

- und die faltbare Klappe (5) und das Fenster (7.4) zusammenfallend angeordnet sind, wenn der U-förmige Deckel in die Basis (1) eingefügt wird.

2. Zusammenfügbare U-förmige Baugruppe mit Deckel und Basis nach Anspruch 1, **dadurch gekennzeichnet, dass** die faltbare Klappe (5) eine im Allgemeinen quadratische Form aufweist, die als Ergebnis der drei aufeinanderfolgenden Schnitte (5.1) und einer angemessenen Linie (5.2) ausgebildet wird, durch die die Klappe (5) gefaltet wird, während das Fenster (7.4) ein quadratisches Fenster ist.

3. Zusammenfügbare U-förmige Baugruppe mit Deckel und Basis nach Anspruch 1, **dadurch gekennzeichnet, dass** die Laschen (7.5) eine trapezförmige Form aufweisen.

Revendications

1. Ensemble de base et couvercle en forme de U emboîtable comprenant une base séparée (1) et un couvercle (7), dans lequel la base présente une forme généralement parallélépipédique formée par un fond, deux parois latérales, une partie avant, une partie arrière et une partie supérieure, dans lequel la partie supérieure (2) est ouverte et la partie avant (3) est partiellement ouverte, dans lequel le couvercle (7) comprend trois secteurs ou parties aligné(e)s de manière consécutive, une première partie (7.1), une deuxième partie (7.2) et une troisième partie (7.3) séparées par des lignes entaillées transversales, la base (1) et le couvercle (7) ayant tous les deux des moyens de fixation coopérants agencés sur l'arrière de l'ensemble et sur l'avant de l'ensemble, dans lequel :

les moyens de fixation agencés sur l'avant de l'ensemble comprennent :

- un certain nombre de fenêtres latérales (6) proches des coins avant et adjacents au fond de la base (1),
- sur la troisième partie (7.3) du couvercle (7), un certain nombre de languettes (7.5) émergeant latéralement proches des sommets libres de la troisième partie (7.3),

les moyens de fixation agencés sur l'arrière de l'ensemble comprennent :

- un rabat pliable (5) sur la partie arrière de la base (1),

- une fenêtre (7.4) sur la première partie (7.1) du couvercle (7),

caractérisé en ce que

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- la fenêtre (7.4) est légèrement plus grande en taille que le rabat pliable (5) défini dans l'arrière de la base (1).
- et le rabat pliable (5) et la fenêtre (7.4) sont agencés de manière coïncidente lorsque le couvercle en forme de U est emboîté dans la base(1).

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2. Ensemble de base et couvercle en forme de U emboîtable selon la revendication 1, **caractérisé en ce que** le rabat pliable (5) présente une forme généralement carrée qui est formée en résultat de trois découpes consécutives (5.1) et d'une ligne d'entaille (5.2) à travers laquelle le rabat (5) est plié, tandis que la fenêtre (7.4) est une fenêtre carrée.

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3. Ensemble de base et couvercle en forme de U emboîtable selon la revendication 1, **caractérisé en ce que** les rabats (7.5) présentent une forme trapézoïdale.

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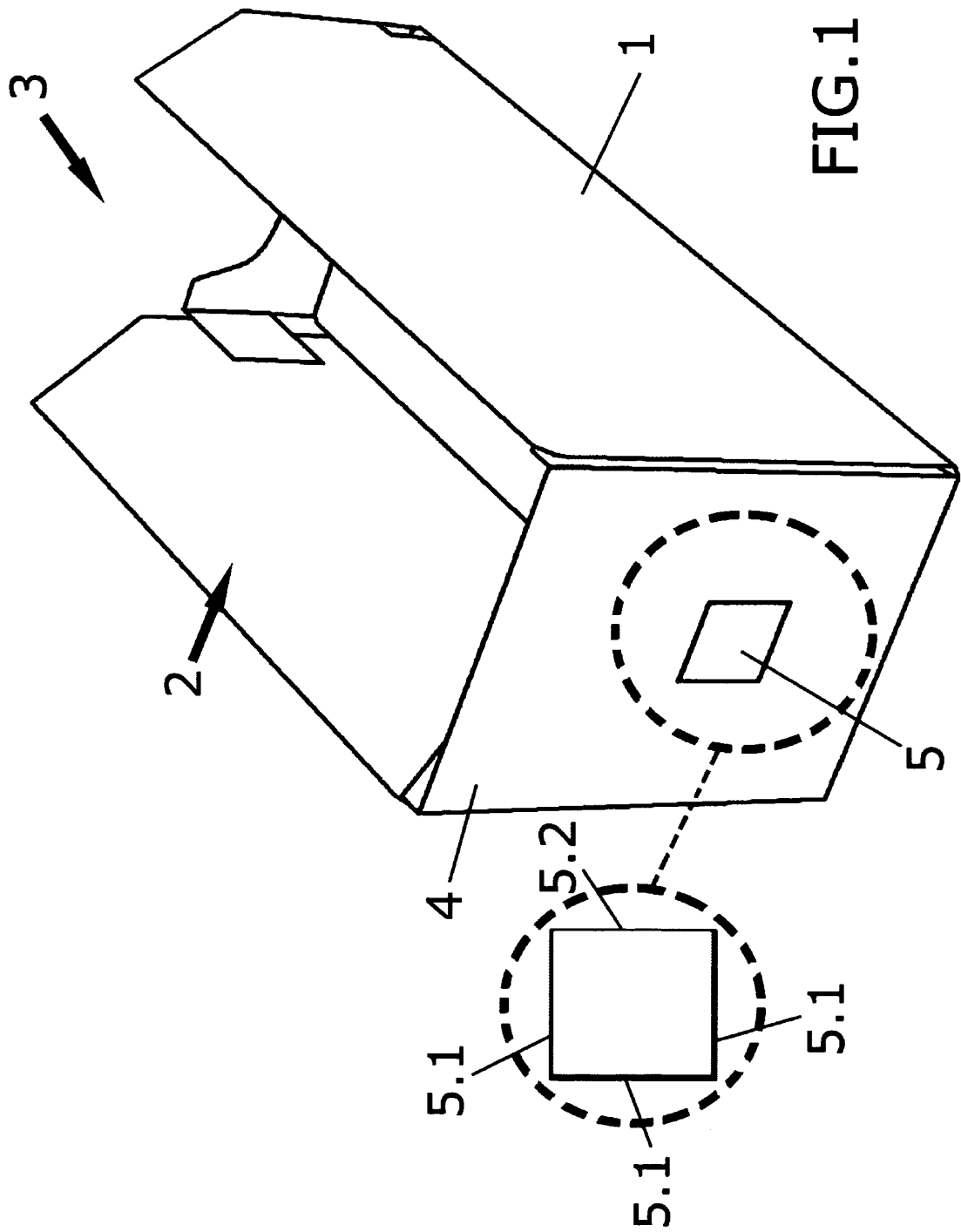
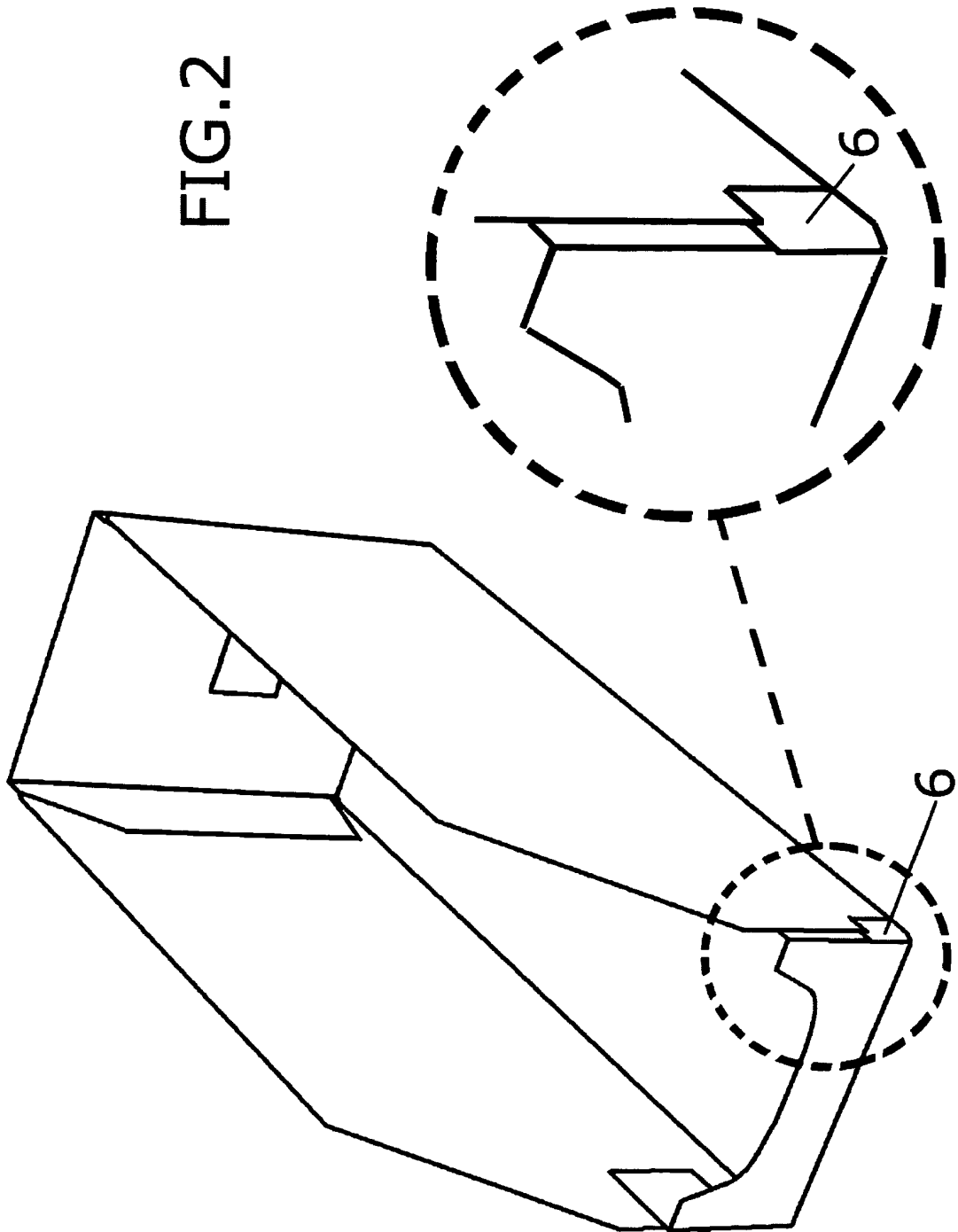
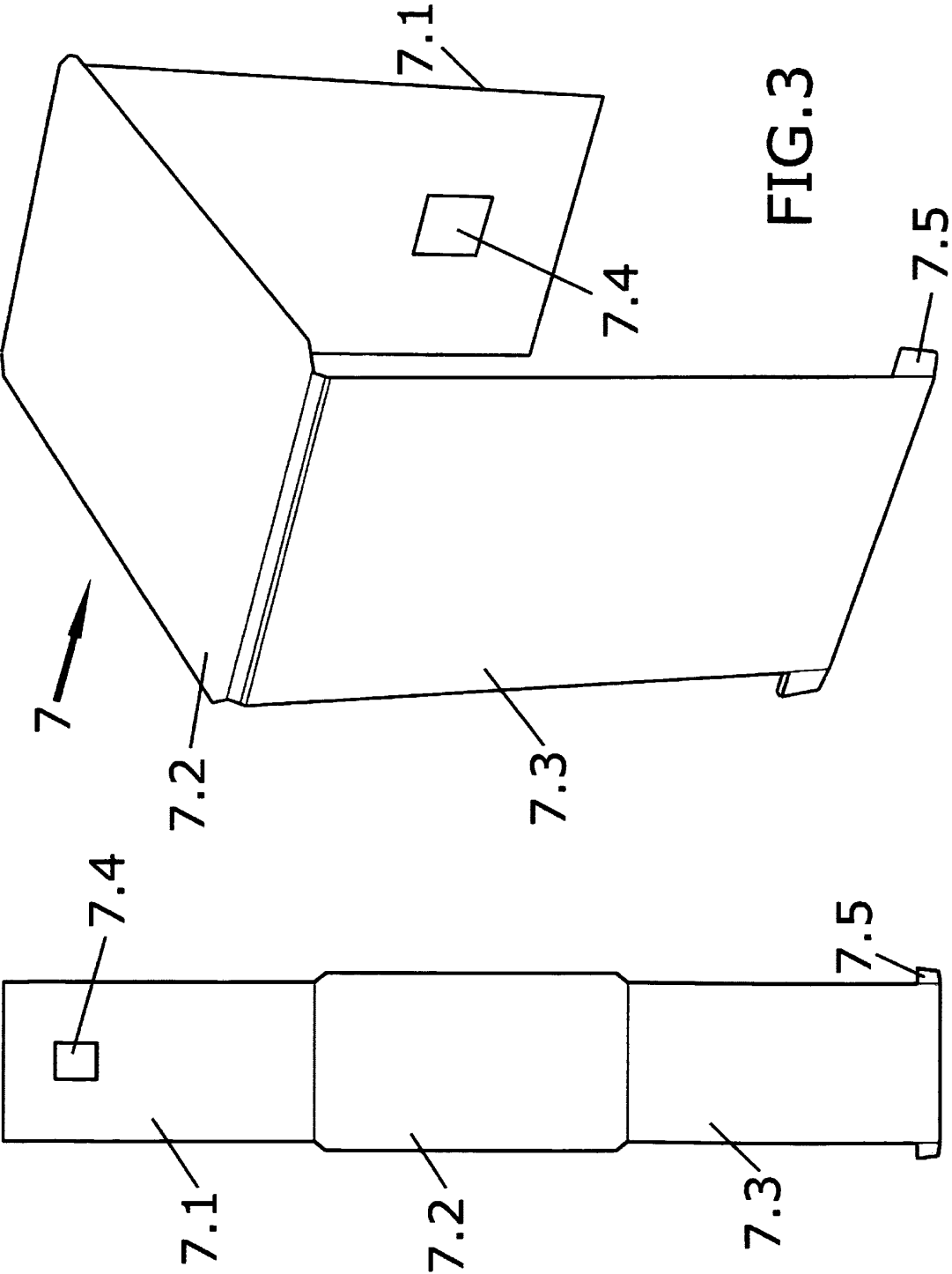


FIG.2





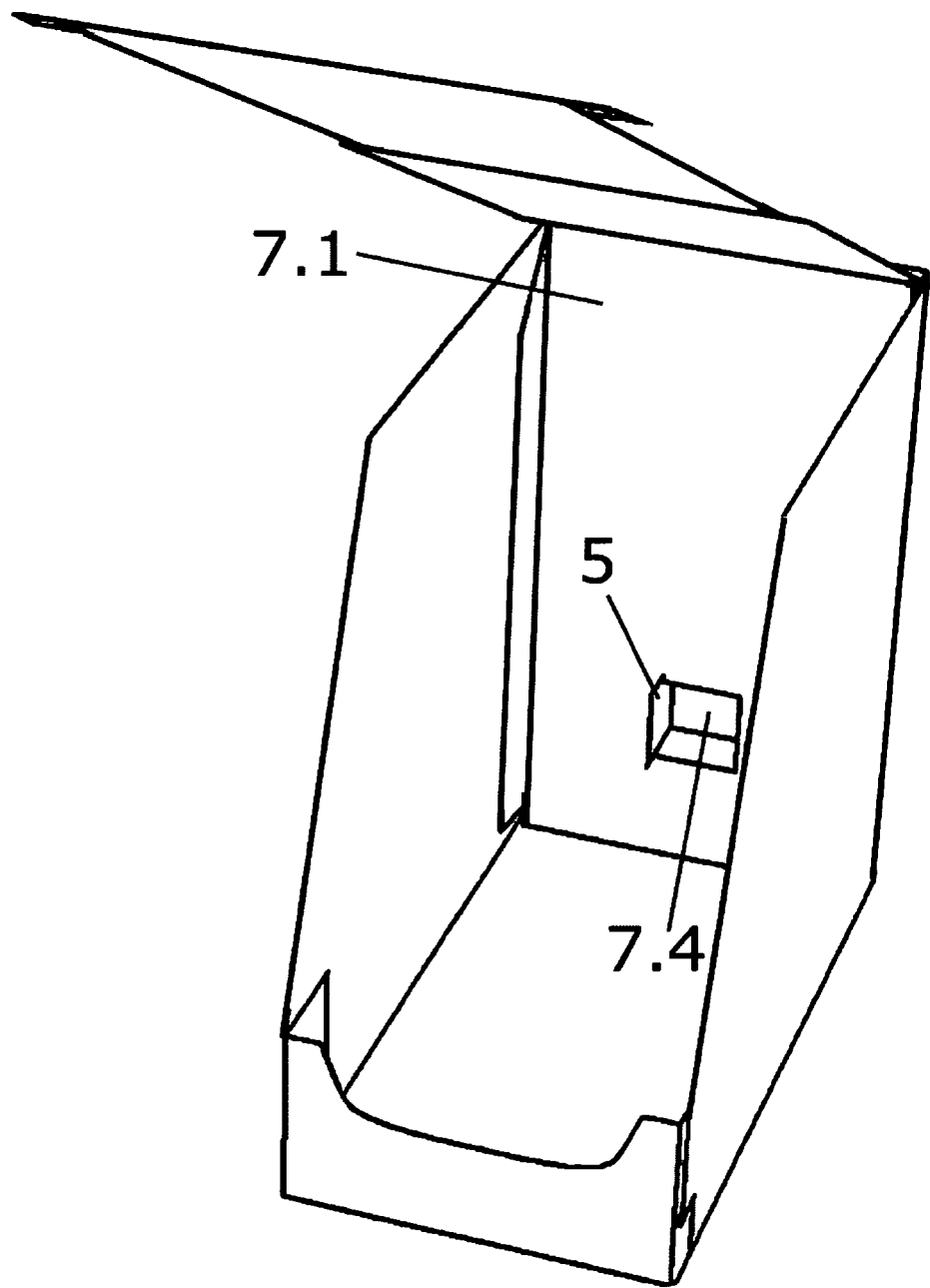
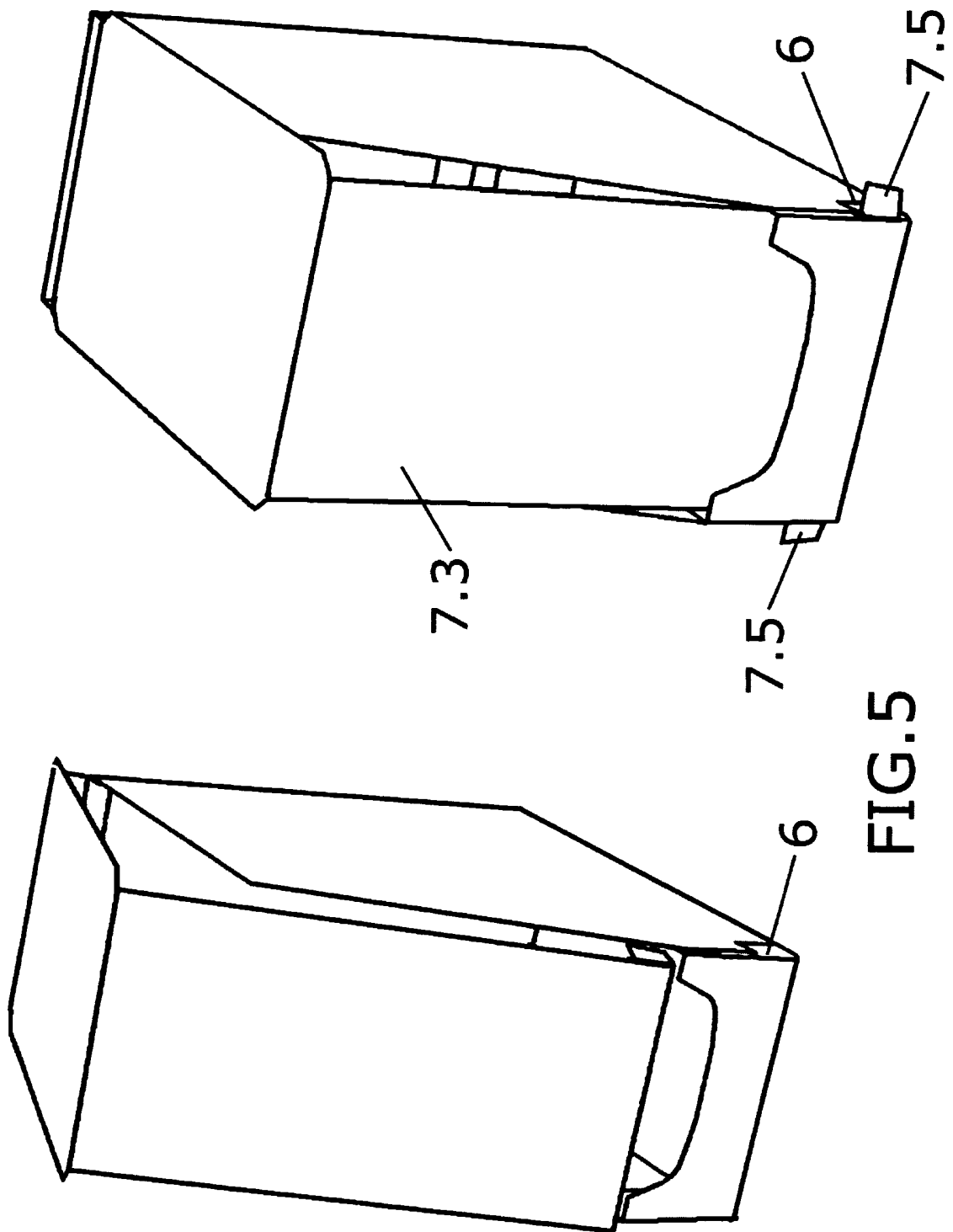


FIG.4



REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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