(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 4 450 417 A2**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
23.10.2024 Bulletin 2024/43

(21) Application number: **24170231.5**

(22) Date of filing: **15.04.2024**

(51) International Patent Classification (IPC):
B65D 21/08 *(2006.01)* ***B65D 25/06*** *(2006.01)*
B65D 25/10 *(2006.01)*

(52) Cooperative Patent Classification (CPC):
B65D 25/06; B65D 21/083; B65D 25/102;
B65D 1/46; B65D 25/005

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA
Designated Validation States:
GE KH MA MD TN

(30) Priority: **21.04.2023 PT 2023118616**

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(54) **PARTITION MODULE FOR A TRANSPORT CONTAINER AND TRANSPORT CONTAINER CONTAINING IT**

(57) The present application describes a partition module for a transport container. Said partition module is to be installed inside a container, attached to the container's inner side walls (2) and is arranged to create delimited compartments adaptable to the varied and differentiated goods (9) to be transported, either in terms of volume or shape. In one embodiment of the partition module, it comprises a partition wall (3.2) to be installed in the interior space of the container, thereby dividing the container's interior into delimited compartments. In another embodiment, said module is further comprised by a connection plate (3.1) provided with slots that allow the configuration of different positions for the partition wall (3.2). The present application also relates to a transport container comprising said partition module. Such container therefore provides a modular, robust and durable approach, which improves the packaging of goods and optimizes the occupation of a container's interior space.

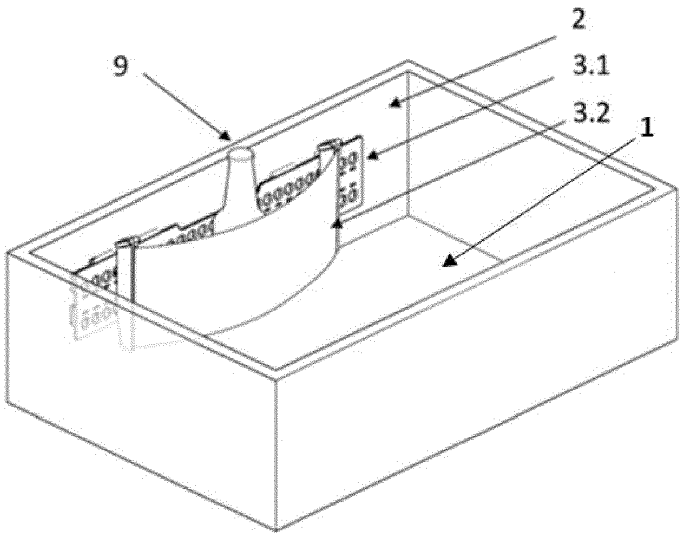

Figure 4

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Description

FIELD OF THE APPLICATION

[0001] The present application is enclosed in the field of transport container systems, in particular for goods.

PRIOR ART

[0002] Transport containers are known and are used in particular for transporting goods such as fruits, vegetables and other articles.

[0003] One known problem result from the varying size of the goods to be transported for optimum filling of transport containers. This problem arises from the limitations that the state-of-the-art containers have, related to their standardized size and the inefficient packaging of goods that they provide.

[0004] In fact, in order to be able to take into account varying requirements for goods, the transport containers are machine-manufactured in specific sizes that can also be specified by the production facility or can be established by the selection of production parameters. It is therefore not possible to rapidly change the size of a transport container and thus its volume capacity in the sense of optimum filling depending on the size of the goods, without major logistical transport problems occurring or a complex change in the production facility and associated high costs.

[0005] This is especially disadvantageous for the known transport containers when single-use cardboard containers that are comparatively simple to produce are replaced by more environmentally-friendly reusable containers that are made of plastic or a similar material suitable for this use but that are also expensive to produce.

[0006] For the known reusable containers made of plastic in particular, optimum adaptation of the transport containers to the size of the goods to be transported proves to be particularly complex and difficult.

[0007] To try to get around this problem, modular containers already exist, which allow the coupling of collar-type structures to the top of the container, thereby increasing its height, and ensuring, for example, that the good to be transported does not project out over the upper edge of the container, preventing the good from being damaged.

[0008] A consequence of this approach is to achieve an increase in the volume of the container, without this directly translating into an optimization of the space occupied by each good to be transported.

[0009] The present solution intended to innovatively overcome such issue.

SUMMARY OF THE APPLICATION

[0010] A first object of the present application refers to a partition module to be installed in the interior space of a transport container, and configured to divide said container's interior space into a plurality of smaller compartments adapted to the size of the goods to be transported.

[0011] In an advantageous configuration of the partition module of the present application, it is comprised by at least one partition wall, adapted to divide the container's interior into delimited compartments. Said partition wall may be of an elastic material, therefore providing a better mode of packaging goods, especially goods that are fragile or at risk of leaking.

[0012] In another advantageous configuration of the partition module of the present application, it further comprises at least one connection plate. Said connection plate is adapted to be attached to the container's inner side wall and is provided with multiple slots that allow the configuration of different positions for the partition walls. The partition module, being an external module that is attached to the container, ensures that the robustness of the latter is not affected.

[0013] In a second object of the present application, it is described a transport container including said partition module. Such container provides a modular, robust and durable approach, which improves the packaging of goods and optimizes the occupation of the container's interior space, taking into account the varied and differentiated goods to be transported, either in terms of volume or shape.

[0014] In an advantageous configuration of the transport container of the present application, it is made from polypropylene, which, in addition to being a resistant and durable material, is also easy to clean.

DESCRIPTION OF FIGURES

[0015]

Figure 1 - Representation of an embodiment of the partition wall of the partition module, through a front view (a) and side view (b); the reference signs represent:

- 3.2 - partition wall;
- 4.2 - outwardly projecting portion.

Figure 2 - Representation of an embodiment of the partition module, illustrating its integration into the interior space of a transport container; the reference signs represent:

- 3.1 - connection plate of the partition module;
- 3.2 - partition wall of the partition module.

Figure 3 - Representation of an embodiment of the connection plate of the partition module; the reference signs represent:

- 3.1 - connection plate;
- 4.1 - engaging slot;
- 4.2 - outwardly projecting portion.

Figure 4 - Illustration of a perspective view of an embodiment of the transport container of the present application that includes a partition module comprised by two connection plates and by one partition wall; the reference signs represent:

1 - base;
2 - frame structure side wall;
3.1 - connection plate;
3.2 - partition wall;
9 - article.

Figure 5 - Illustration of a perspective view of an embodiment of the transport container of the present application that includes a partition module comprised by two connection plates and by two partition walls; the reference signs represent:

2 - frame structure side wall;
3.1 - connection plate;
3.2 - partition wall;
9 - article.

Figure 6 - Representation of an embodiment of the collar frame structure of the transport container of the present application; the reference signs represent:

5 - collar frame structure;
6 - complementary engaging means.

Figure 7 - Detailed representation of a connection between the frame structure and the collar frame, in an embodiment of the transport container of the present application; the reference signs represent:

2 - frame structure;
5 - collar frame structure;
6.1 - first engaging portions of a dado joint type, provided on the upper part of the first frame structure;
6.2 - second engaging portions of a dado joint type, provided on the lower part of the collar frame structure.

Figure 8 - Representation of an embodiment of the transport container of the present application, comprised by a frame structure and by a collar frame; the reference signs represent:

2 - frame structure;
5 - collar frame structure;
5.1 - pivotable side wall;
5.2 - non-pivotable side wall;

Figure 9 - Representation of an embodiment of the transport container of the present application, comprised by two frame structures interspersed by a collar frame; the reference signs represent:

2 - frame structure;
5 - collar frame structure.

DETAILED DESCRIPTION

[0016] The more general and advantageous configurations of the objects of the present application are described in the Summary. Such configurations are detailed below in accordance with other advantageous and/or preferred embodiments of implementation.

[0017] The first object of the present application is a partition module for a transport container.

[0018] In a preferred embodiment of the partition module of the present application, it is comprised by at least one partition wall (3.2). As illustrated by figure 1, a partition wall (3.2) comprises a first connection end and a second connection end, opposite to each other along the length of the partition wall (3.2). Said connection ends are provided with cooperating elements (4.2) configured to detachably mount the partition wall (3.2) to at least one transport container's inner side wall, thereby dividing the container's interior into delimited compartments.

[0019] In an advantageous embodiment, the partition wall (3.2) is of an elastic material, and the cooperating elements (4.2) are a plurality of outwardly projections. Said cooperating elements (4.2) may be configured to detachably mount the partition wall (3.2) to one inner side wall of a container. In this way, it is possible to create a compartment next to a side wall, which is especially useful to store fragile articles or those at risk of leaking, since the article may be retained between the wall of container and the elastic partition wall (3.2). This embodiment is also particularly advantageous in situations where such articles are transported without the interior space of the container being completely filled, ensuring that said articles remain confined between the side wall of the container and the elastic partition wall and cannot move, thus preventing its damage or liquid spillage.

[0020] In another preferred embodiment of the partition module of the present application, it further comprises at least one connection plate (3.1). As illustrated by figure 2, the connection plates (3.1) are adapted to be attached to the inner walls of a transport container, establishing the connection points for the installation of the partition walls (3.2).

[0021] More particularly, as can be seen from figures 1 to 3, the partition module comprises cooperating elements (4.1, 4.2) arranged in the at least one connection plate (3.1) and in the at least one partition wall (3.2). Said cooperating elements (4.1, 4.2) are configured to detachably mount a connection plate (3.1) to an inner wall of a transport container, and a partition wall (3.2) connection end to a connection section of a connection plate (3.1), thereby dividing the container's interior space into delimited compartments.

[0022] More particularly, the cooperating elements of

the partition module may include a plurality engaging slots (4.1) arranged in a connection plate (3.1) and a plurality of outwardly projecting portions (4.2) arranged at a connection plate (3.1) and at a partition wall (3.2) connection ends, so that the plurality of outwardly projecting portions (4.2) of a partition wall (3.2) connection end is configured to detachably mount said partition wall (3.2) to slots (4.1) in a connection plate (3.1).

[0023] The slots (4.1) on the connection plate (3.1) are configured to guide the partition wall (3.2) to a locked position as the partition wall (3.2) is mounted to container's inner side wall (2). In case of a partition wall (3.2) is made from a rigid material, the locked position is able to restrict the partition wall (3.2) from lateral movement within the container's interior space, which may also be advantageous when transporting fragile articles or articles at risk of leakage.

[0024] Through this scheme, the container and the partition module (3.1, 3.2), which is used to delimit the container's interior space, are independent structures, which additionally favours the robustness of the container and also improves its stability during loading, transportation and stacking.

[0025] Furthermore, due to the fact that the partition walls (3.2) are not attached directly to the container but rather are connected to a connection plate (3.1), which in turn is attached to the side walls of the container, it is allowed the delimitation of interior spaces of configurable volumes, depending on the good (9) to be transported, which favours the optimization of the occupation of the container's interior space without compromising its robustness. Particularly, at least one partition wall (3.2) is received in the container's interior in a removable manner, defining delimited compartments. Removable partition walls (3.2) can be used to selectively divide an interior of the container into multiple smaller portions, allowing to adapt the inside of the container to goods (9) with different volumes and shapes.

[0026] In another embodiment of the partition module, it may comprise one connection plate (3.1) and one partition wall (3.2). Particularly, the cooperating elements are configured to detachably mount a first partition wall (3.2) connection end to a first connection section of the connection plate (3.1), and a second partition wall (3.2) connection end, opposite to the first end, to a second connection section of the connection plate (3.1). Even more particularly, the first and the second connection sections may be aligned with one another across the connection plate (3.1) in such a way that the partition wall (3.2) is arranged in a plane parallel to the connection plate (3.1) and in a plane perpendicular to the container opening.

[0027] In this embodiment, the partition wall (3.2) may be made from an elastic material, allowing to create a compartment next to a side wall of a container, which is especially useful to store fragile articles or those at risk of leaking, since the article (9) is retained between the wall of container and the elastic partition wall (3.2). This embodiment is also particularly advantageous in situations where such articles (9) are transported without the interior space of the container being completely filled, ensuring that said articles (9) remain confined between the side wall of the container and the elastic partition wall (9) and cannot move, thus preventing its damage or liquid spillage.

[0028] In another embodiment of the partition module, it comprises two connection plates (3.1) and at least one partition wall (3.2). A first connection plate (3.1) is detachably mounted to a first inner side wall of a container and a second connection plate (3.1) is detachably mounted to a second inner side wall of the container, opposite to the first side wall. Additionally, the cooperating elements are configured to detachably mount a first connection end of a partition wall (3.2) to the connection section of the first connection plate (3.1), and a second connection end of said partition wall (3.2) to the connection section of the second connection plate (3.1). More particularly, the connection sections of the first and second connection plates (3.1) are aligned with one another across the container's interior space in such a way that the at least one partition wall (3.2) is arranged in a plane perpendicular to both connection plates (3.1) and to the container opening. The partition wall (3.2) may be made from an elastic material or from a rigid material.

[0029] The developed partition module (3.1, 3.2), allows the creation of multiple interior compartments, of different volumes, without jeopardizing the robustness of the container.

[0030] The second object of the present application is a transport container having a partition module according to the first object installed in its interior space.

[0031] In a preferred embodiment of the transport container of the present application, it comprises a base (1), at least one frame structure (2) comprised by four side walls, that extend from the base (1) up to an upper part of the container, bordering a container's interior and defining a container opening, a partition module according to the first object and cooperating elements arranged in the frame's side walls and configured to cooperate with the cooperating elements of the partition module to detachably mount a partition wall (3.2) connection end or a connection plate (3.1) of the partition module to a frame's side wall (2).

[0032] In one embodiment of the transport container, as illustrated by figure 4, the partition module comprises one connection plate (3.1) and one partition wall (3.2) made from an elastic material. In this way, it is possible to create a compartment next to a side wall of the frame structure (2), which is especially adapted to store fragile articles or those at risk of leaking, since the article (9) is retained between the wall of the frame structure (2) and the elastic partition wall (3.2). This embodiment is also particularly advantageous in situations where such articles (9) are transported without the interior space of the container being completely filled, ensuring that said articles (9) remain confined between the side wall of the

frame structure (2) and the elastic partition wall (9) and cannot move, thus preventing its damage or liquid spillage.

[0033] In another embodiment of the transport container of the present application, as illustrated by figure 5, the partition module (3) comprises two connection plates (3.1) and at least one partition wall (3.2). A first connection plate (3.1) is detachably mounted to a first side wall of the frame (2) and a second connection plate (3.1) is detachably mounted to a second side wall of the frame (2), opposite to the first side wall. Additionally, the cooperating elements are configured to detachably mount a first connection end of a partition wall (3.2) to the connection section of the first connection plate (3.1), and a second connection end of said partition wall (3.2) to the connection section of the second connection plate (3.1). More particularly, the connection sections of the first and second connection plates (3.1) are aligned with one another across the container's interior space in such a way that the at least one partition wall (3.2) is arranged in a plane perpendicular to both connection plates (3.1) and to the container opening. The partition wall (3.2) may be made from an elastic material or from a rigid material.

[0034] The developed container thus allows, through the partition module (3.1, 3.2), the creation of multiple interior compartments, of different volumes, without jeopardizing its robustness.

[0035] In one embodiment of the transport container of the present application, it has a rectangular shape and it is made from polypropylene.

[0036] In another embodiment of the transport container of the present application, the cooperating elements are used to detachably mount the connection plate (3.1) of the partition module to a frame's side wall, and it may include a plurality engaging slots (4.1) arranged in a frame's side wall (2) and a plurality of outwardly projecting portions (4.2) arranged at a connection plate (3.1) of the partition module. Particularly, the plurality of outwardly projecting portions (4.2) of a connection plate (3.1) is configured to detachably mount said connection plate (3.1) to slots (4.1) in a frame's side wall (2).

[0037] In another embodiment of the transport container of the present application, it further comprises a collar frame structure (5). As illustrated by figure 6, said collar frame structure (5) may be comprised by four side walls arranged to define an opening matching the container opening and complementary engaging means (6) arranged at least on the lower part of the collar frame's side walls (5).

[0038] In particular, complementary engaging means may be used to provide connection between the frame structure (2) and the collar frame (2). Said complementary engaging means may include first engaging portions (6.1) provided on the upper part of the first frame structure (2) and second engaging portions (6.2) provided on the lower part of the collar frame structure (5) matching the first engaging portions (6.1). The engaging means (6.1, 6.2) are configured to detachably engage the first frame structure's upper part (2) to the collar frame structure's lower part (5), in a stackable manner. The collar frame (5) is formed in such a way that it is complementary to the container opening formed by the side walls of the first frame structure (2) and can be placed on the upper part of said first frame's side wall (2), allowing to increase the volumetric capacity of the container.

[0039] Additionally, in another embodiment of the transport container of the present application, the complementary engaging means (6) may provide two different joint types: a first joint type provided in a first set of opposite side walls and a second joint type provided in a second set of opposite side walls. The joints being provided through two different mechanisms, allows to strengthen the connection between both structures (2, 5), which improves stability of the container during transportation and stacking. Furthermore, considering that the container may have handles used for its transportation, such connection scheme allows consolidating the two structures (2, 5) as part of a single body, preventing both from separating during the container's handling.

[0040] In one embodiment of the transport container, as illustrated in figure 7, the first joint type may be a dado joint, wherein the first engaging portion (6.1) is an alternating sequence of grooves and dadoes provided along the width of the upper part of the first frame structure's side walls (2), and the second engaging portion (6.2) is a complementary alternating sequence of grooves and dadoes provided along the width of the lower part of the collar frame structure's side wall (5). The second joint type may be a tongue and groove joint, wherein the first engaging portion (6.3) is a tongue provided along the width of the upper part of the first frame structure's side walls (2), and the second engaging portion (6.4) is a groove provided along the width of the lower part of the collar frame structure's side wall (5).

[0041] In another embodiment, as illustrated by figure 8, the collar frame structure (5) comprises two pivotable side walls (5.1) opposite to each other. The collar frame structure (5) may comprise a pivoting mechanism projected to connect an upper part of the first and the second pivotable side walls (5.1) to adjacent non-pivotable side walls (5.2). Said pivoting mechanism is configured to enable the vertical rotation of each of said pivotable side walls (5.1), in relation to the adjacent non-pivotable side walls (5.2).

[0042] This pivotable scheme may be used in combination with the engaging means (6) to provide greater security in the connection between both structures (2, 5), ensuring that they do not separate, due to the action of the force of gravity, especially when the container is loaded with goods.

[0043] In another embodiment of the transport container of the present application, as illustrated by figure 9, it further comprises a second frame structure (2) and complementary engaging means arranged at the lower part of the second frame structure's side walls (2) and at the upper part of the collar frame's side walls (5), in such a

way that said engaging means (6) are configured to detachably engage the collar frame's upper part (5) to the second frame structure's lower part (2), in a stackable manner.

[0044] More particularly, the container may comprise more than one collar frame (5) and at least one second frame structure (2), and wherein the complementary engaging means (6) are further configured to detachably engage a second frame structure's upper part (2) to a collar frame's lower part (5), in a stackable manner.

[0045] This scheme allows alternating stacking between frame structures (2) and collar frame structures (5), in order to correspond to the characteristics of the articles to be transported.

[0046] In another embodiment of the transport container of the present application, it may comprise reinforcing ribs provided on the frame's side walls (2). Said reinforcing ribs may also be further provided on the collar frame's side walls (5), making it robust and durable for industrial use.

[0047] In another embodiment of the transport container of the present application, the frame structure (2) and the collar frame structure (5) may comprise a fold line, preferably disposed at each corner thereof. Said structures (2, 5) beingfoldable along the fold lines into a compact configuration.

[0048] As will be clear to one skilled in the art, the present invention should not be limited to the embodiments described herein, and a number of changes are possible which remain within the scope of the present invention.

[0049] Of course, the preferred embodiments shown above are combinable, in the different possible forms, being herein avoided the repetition all such combinations.

Claims

1. A partition module for dividing a transport container's interior space into a plurality of delimited compartments; the module comprising:

   - at least one partition wall (3.2) comprised by a first connection end and by a second connection end, opposite to each other along the length of the partition wall (3.2); and
   - cooperating elements arranged in partition wall (3.2) connection ends;

   said elements being configured to detachably mount the partition wall (3.2) connection ends to at least one transport container's inner side wall, thereby dividing the container's interior into delimited compartments.

2. The partition module according to claim 1, wherein the partition wall (3.2) is made of an elastic material, and wherein the cooperating elements includes:

   - a plurality of outwardly projecting portions (4.2) arranged at partition wall (3.2) connection ends.

3. The partition module according to claims 1 or 2 for dividing a transport container's interior space into a plurality of smaller compartments; the module further comprising:

   - at least one connection plate (3.1);
   - cooperating elements arranged in the at least one connection plate (3.1); said elements being configured to detachably mount:

     - a connection plate (3.1) to a transport container's inner side wall; and
     - a partition wall (3.2) connection end to a connection section of a connection plate (3.1).

4. The partition module according to claim 3 comprising one connection plate (3.1) and one partition wall (3.2); the cooperating elements being configured to detachably mount:

   a first partition wall (3.2) connection end to a first connection section of the connection plate (3.1), and
   a second partition wall (3.2) connection end, opposite to the first end, to a second connection section of the connection plate (3.1);
   and wherein,
   the first and the second connection sections being aligned with one another across the connection plate (3.1) in such a way that the partition wall (3.2) is arranged in a plane parallel to the connection plate (3.1) and in a plane perpendicular to the container's opening; the partition wall (3.2) being made from an elastic material.

5. The partition module according to claim 3 as dependent from claim 1, comprising two connection plates (3.1) and at least one partition wall (3.2); wherein

   a first connection plate (3.1) being detachably mount to a first transport container's inner side wall and a second connection plate (3.1) being detachably mount to a second transport container's inner side wall, opposite to the first inner side wall;
   the cooperating elements being configured to detachably mount:

   - a first connection end of a partition wall (3.2) to the connection section of the first connection plate (3.1), and
   - a second connection end of said partition

wall (3.2) to the connection section of the second connection plate (3.1);

and wherein
the connection sections of the first and second connection plates (3.1) being aligned with one another across the transport container's interior space in such a way that the at least one partition wall (3.2) is arranged in a plane perpendicular to both connection plates (3.1) and to the container opening; the partition wall (3.2) being made from an elastic material or from a rigid material.

6. The partition module according to any of the previous claims 3 to 5,

wherein the cooperating elements includes:

- a plurality of engaging slots (4.1) arranged in a connection plate (3.1);
- a plurality of outwardly projecting portions (4.2) arranged at a connection plate (3.1) and at partition wall (3.2) connection ends,

and wherein,

the plurality of outwardly projecting portions (4.2) of the connection plate (3.1) is configured to detachably mount said connection plate (3.1) to the container's inner side wall;
the plurality of outwardly projecting portions (4.2) of a partition wall (3.2) connection end is configured to detachably mount said partition wall (3.2) to slots (4.1) in a connection plate (3.1).

7. A transport container comprising:

- a base (1);
- at least one frame structure (2) comprised by four side walls; the side walls of a first frame structure extending from the base (1) up to an upper part of the container, bordering a container's interior and defining a container opening;
- a partition module according to any of the claims 1 to 6; and
- cooperating elements arranged in the frame's side walls (2) configured to cooperate with the cooperating elements of the partition module to detachably mount a partition wall (3.2) connection end or a connection plate (3.1) of the partition module to a frame's side wall (2).

8. The container according to claim 7, wherein the cooperating elements arranged in frame's side walls (2) include:

- a plurality engaging slots (4.1);

and wherein,

the coopering elements of the partition module includes a plurality of outwardly projecting portions (4.2) arranged at a partition wall (3.2),
so that the plurality of outwardly projecting portions (4.2) of a partition wall (3.2) is configured to detachably mount said partition wall (4.2) to the engaging slots of the frame's side wall (2); or
the coopering elements of the partition module includes a plurality of outwardly projecting portions (4.2) arranged at a connection plate (3.1),
so that the plurality of outwardly projecting portions (4.2) of a connection plate (3.1) is configured to detachably mount said connection plate (3.1) to the engaging slots (4.1) of the frame's side wall (2).

9. The container according to claims 7 or 8, further comprising a collar frame structure (5) comprised by four side walls arranged to define an opening matching the container's opening;

and wherein,
the container further comprises complementary engaging means (6) arranged at the upper part of the first frame's side walls (2) and at least at the lower part of the collar frame's side walls (5);
engaging means (6) including first engaging portions (6.1) provided on the upper part of the first frame structure (2) and second engaging portions (6.2) on the lower part of the collar frame structure (5) matching the first engaging portions (6.1);
and wherein,
said engaging means (6.1, 6.2) being configured to detachably engage the first frame structure's upper part (2) to the collar frame structure's lower part (5), in a stackable manner;
and wherein,
the engaging means (6) provide two different joint types; a first joint type provided in a first set of opposite frame's side walls, and a second joint type provided in a second set of opposite frame's side walls;
and wherein,

the first joint type is a dado joint, wherein the first engaging portion (6.1) is an alternating sequence of grooves and dadoes provided along the width of the upper part of the first frame structure's side walls (2), and the second engaging portion (6.2) is a complementary alternating sequence of grooves and dadoes provided along the width of the lower part of the collar frame

structure's side wall (5); and
the second joint type is a tongue and groove joint, wherein the first engaging portion (6.3) is a tongue provided along the width of the upper part of the first frame structure's side walls (2), and the second engaging portion (6.4) is a groove provided along the width of the lower part of the collar frame structure's side wall (5).

10. The container according to any of the claim 9, wherein the collar frame structure (5) comprises a first pivotable side wall (5.1) and a second pivotable side wall (5.1), opposite thereto; the collar frame structure (5) comprising a pivoting mechanism projected to connect an upper part of the first and the second pivotable side walls (5.1) to adjacent non-pivotable side walls (5.2); said mechanism being configured to enable the vertical rotation of each of said pivotable side walls (5.1), in relation to the adjacent non-pivotable side walls (5.2).

11. The container according to any of the claims 9 or 10, wherein the container further comprises:

- a second frame structure (2); and
- complementary engaging means (6) arranged at the lower part of the second frame structure's side walls (2) and at the upper part of the collar frame's side walls (5), in such a way that said engaging means (6) are configured to detachably engage the collar frame's upper part (5) to the second frame structure's lower part (2), in a stackable manner;

and wherein, the container comprises:

- more than one collar frame (5); and
- at least one second frame structure (2),

wherein,
the engaging means (6) are further configured to detachably engage a second frame structure's upper part (2) to a collar frame's lower part (5), in a stackable manner.

12. The container according to any of the previous claims 7 to 11, comprising reinforcing ribs provided on the frame's side walls (2).

13. The container according to claim 9 and 12, wherein the reinforcing ribs are further provided on the collar frame's side walls (5).

14. The container according to any of the previous claims 7 to 13, wherein a frame structure (2) comprises a fold line at each corner thereof; the frame structure (2) being foldable along the fold lines into a compact configuration.

15. The container according to claim 9 and claim 13, wherein a collar frame structure (5) comprises a fold line at each corner thereof; the collar frame structure being foldable along the fold lines into a compact configuration;
and wherein,
the container has a rectangular shape and it is made from polypropylene.

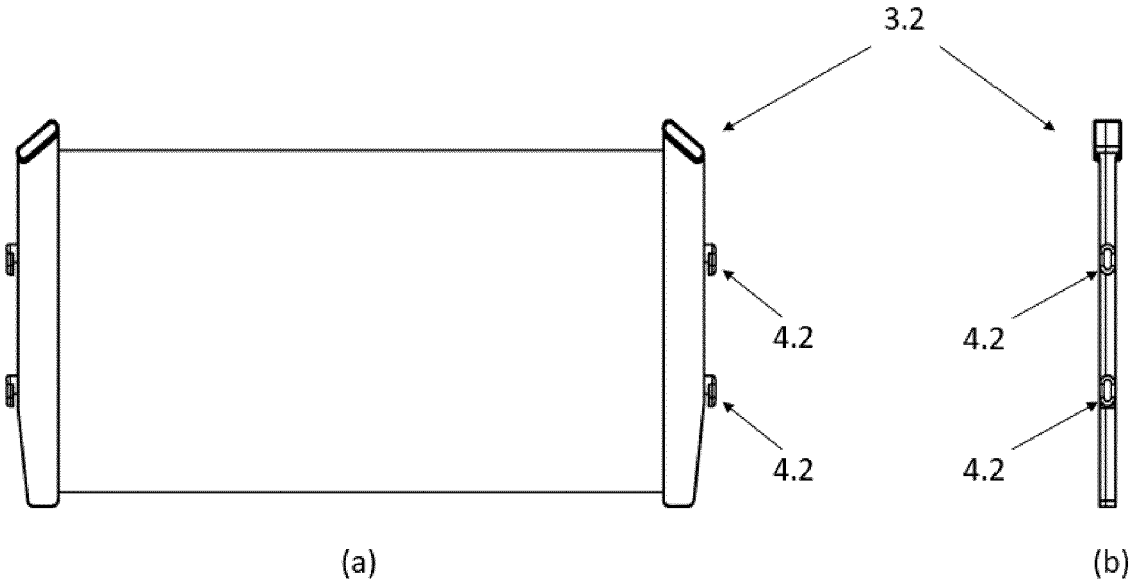

Figure 1

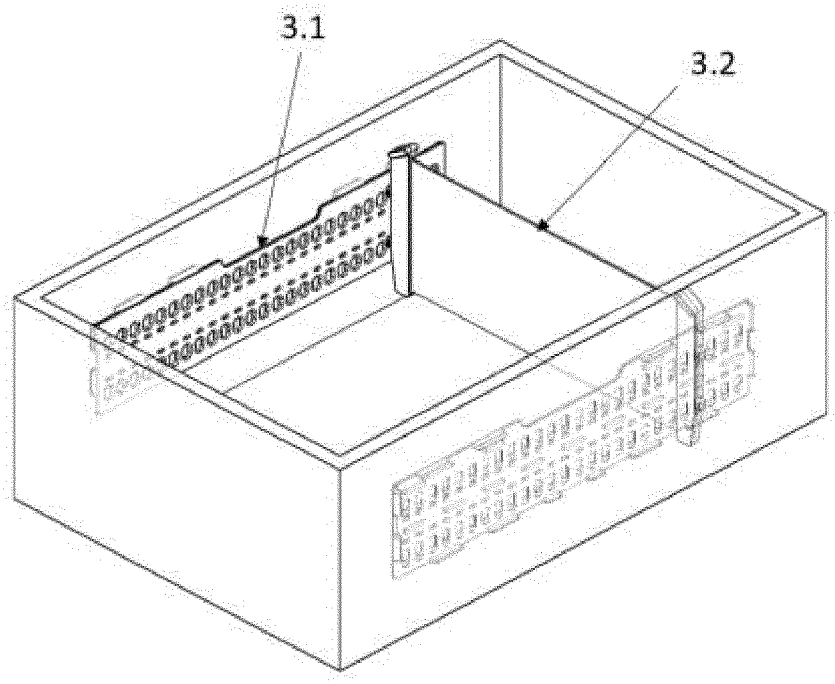

Figure 2

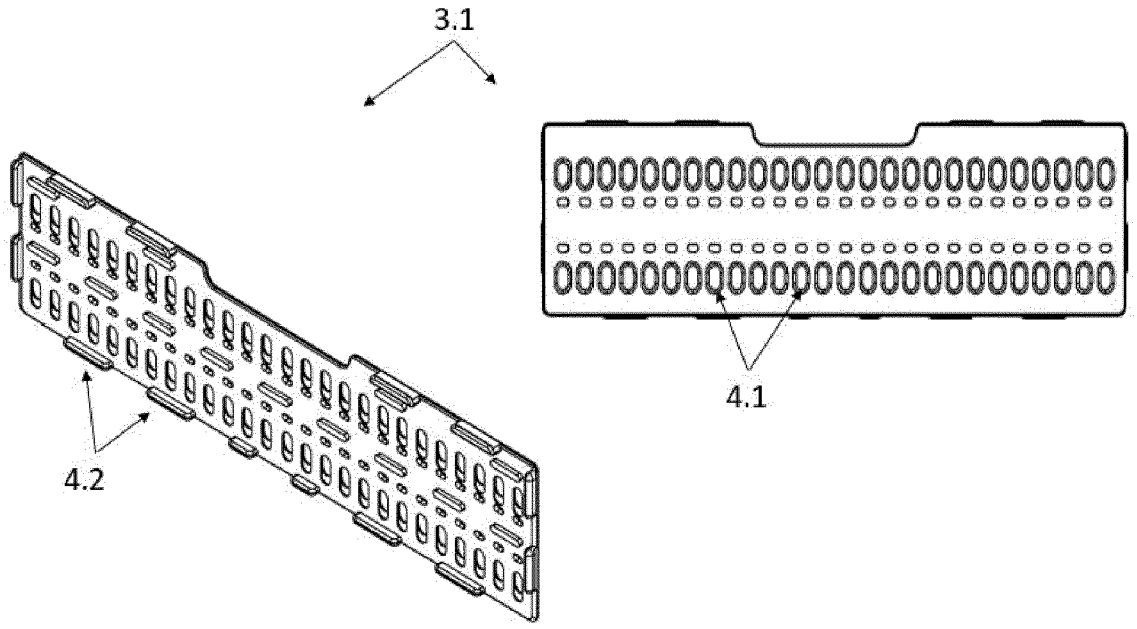

Figure 3

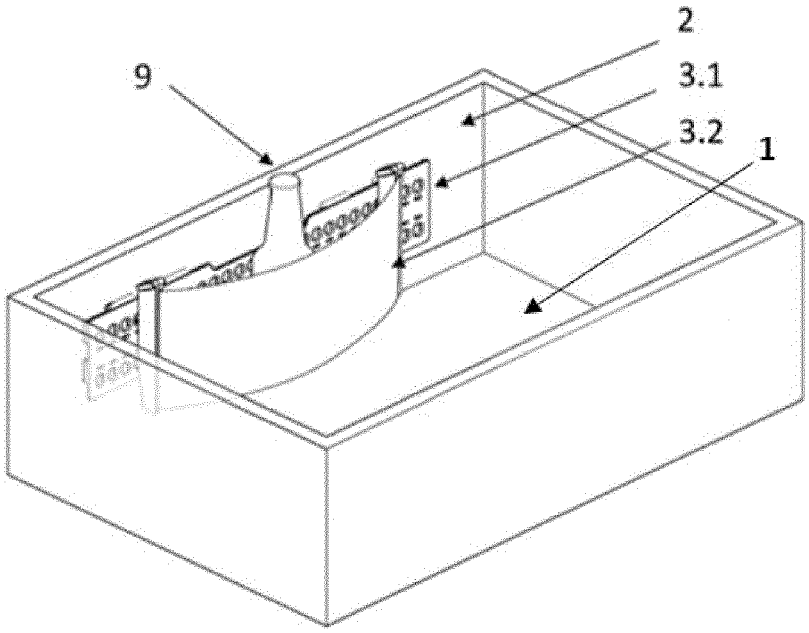

Figure 4

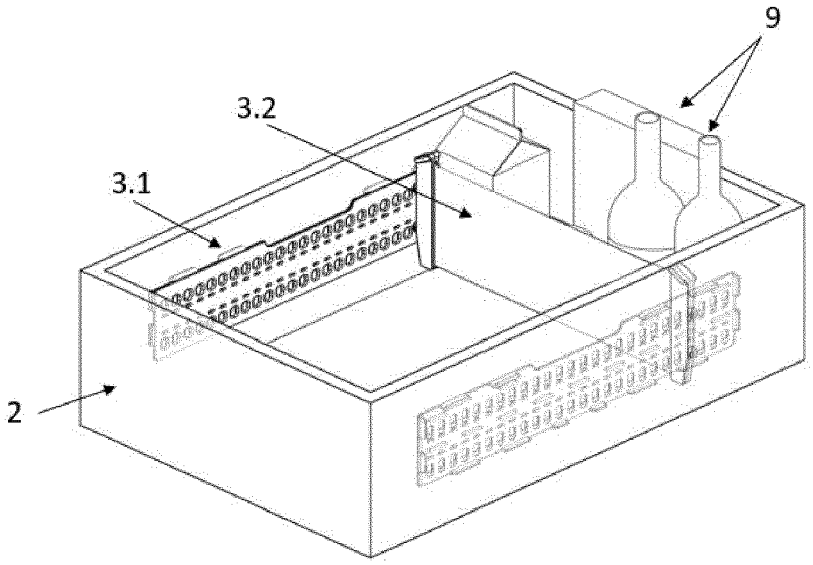

Figure 5

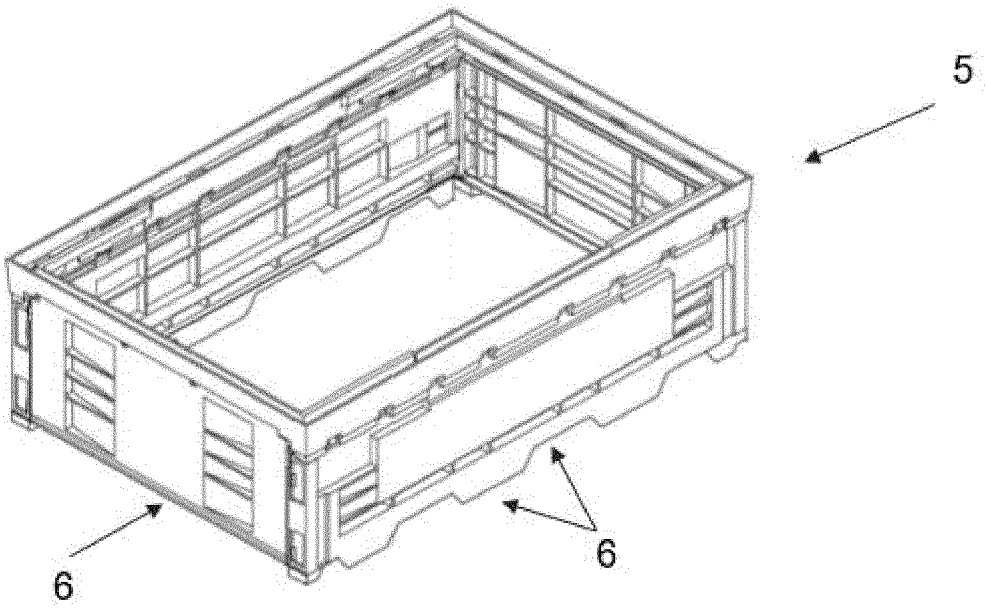

Figure 6

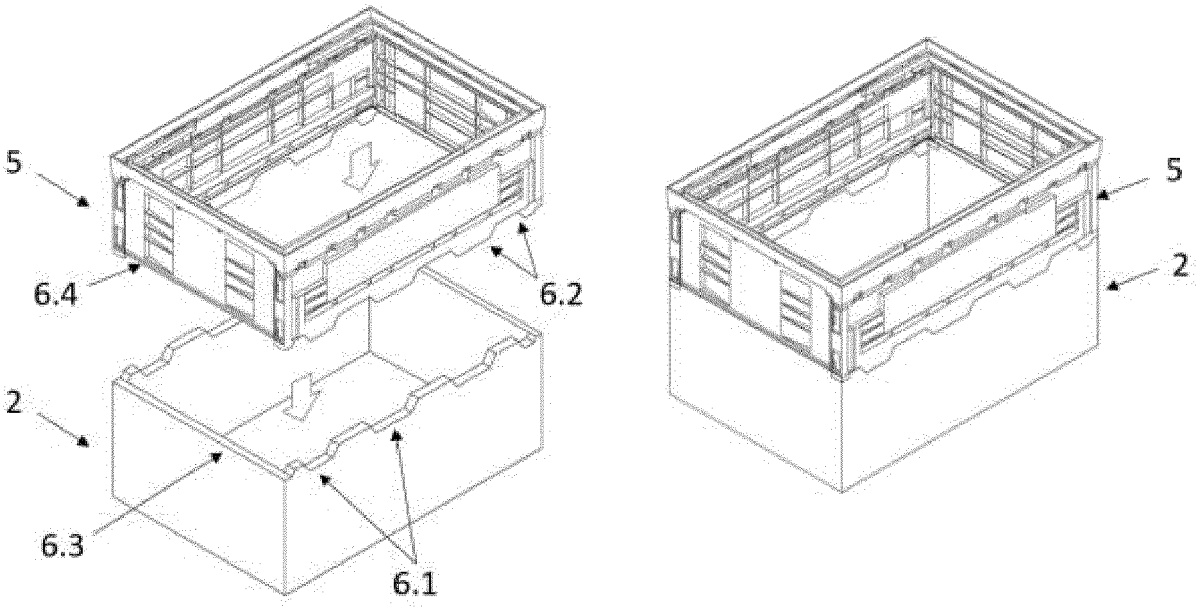

Figure 7

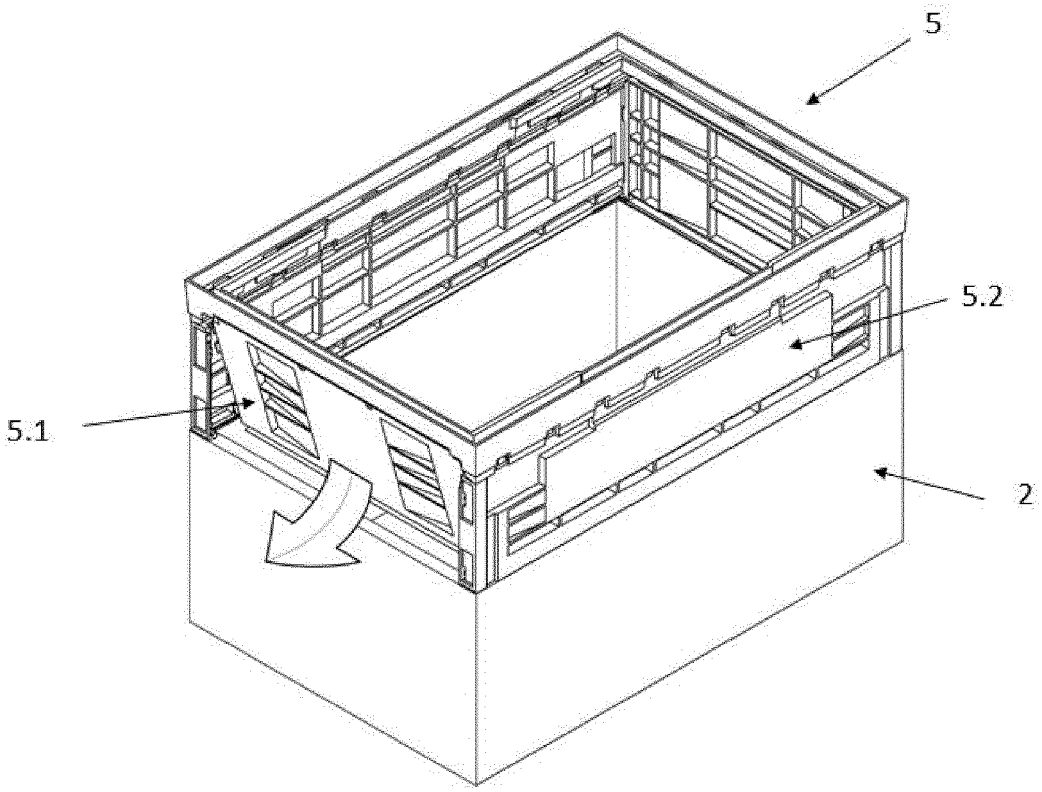

Figure 8

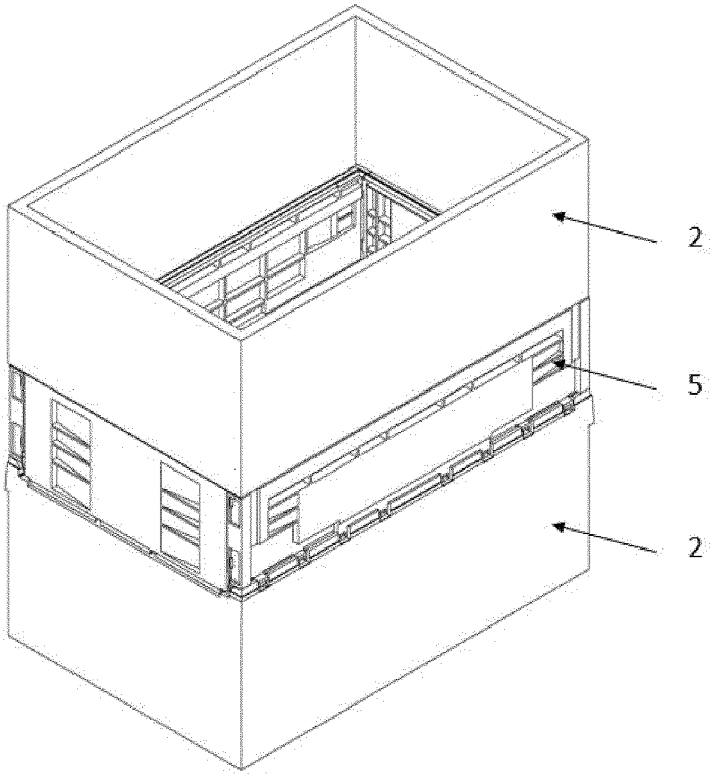

Figure 9