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(54) **BOX FOR CONTAINING BOTTLES**

(57) Box for containing bottles, which comprises a bottom wall (3), a perimeter wall (4), which rises starting from the lower edge (31) of the bottom wall (3) up to an upper edge (41) with four sides (410, 420, 430, 440) and delimits an access opening (42), a cover (5) intended to be placed to at least partially close of the access opening (42) and extended with a first fold (51) starting from the upper edge (41) of a first side (410). The box (1) also comprises a shaped strip (6) extended with a second fold (62) starting from the upper edge (41) of a second side (420) opposite the first side (410), which is provided with at least one third fold (63) parallel to the second fold (62), and delimits a connector portion (7) and a false bottom portion (8) set down on the bottom wall (3) and extended between the third fold (63) and an end edge (8'), placed

against the first side (410) in order to cover the bottom wall (3). The box (1) also comprises at least one lateral wing (9) intended to be placed to cover the bottles and extended with a fourth fold (91) starting from the upper edge (41) of a third or of a fourth side (430, 440). The box (1) also comprises a plurality of dividing tabs (10), which are each extended with a fifth fold (100) starting from the lateral wing (9) inside the containment volume, and are placed side-by-side along a flanking direction (Y) for the bottles, substantially parallel to the first and second sides (410, 420). The fifth folds (100) are placed transversely with respect to the first and second sides (410, 420) in order to separate the bottles intended to be placed side-by-side.

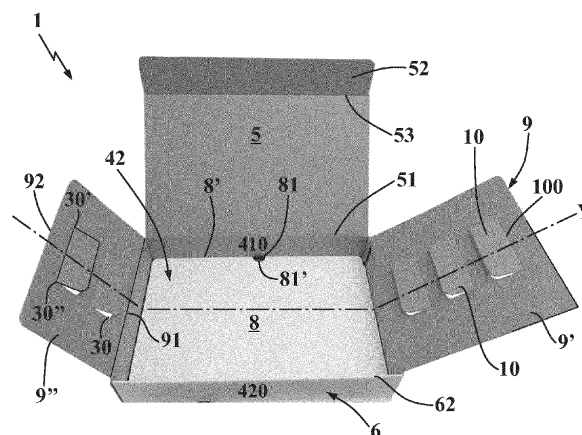


Fig. 1

Description

Field of application

[0001] The present invention regards a box for containing bottles, according to the preamble of the main independent claim.

[0002] The present box is intended to be employed in the field of packaging for containing bottles, advantageously intended to be transported, e.g. by a producer to a distributor in order to be placed on the market or delivered to a final client.

[0003] Advantageously, moreover, the present box is intended to be employed as a gift package or chest for select bottles.

[0004] The box, object of the present invention, is advantageously intended to be used for containing bottles, in particular bottles of alcoholic beverages, such as wine, intended to be sold in packages.

State of the art

[0005] In the packaging field, boxes are currently quite diffused that are attained starting from a sheet of die-cut cardboard and folded, which are intended to contain different articles. For example, boxes are known that are intended to contain bottles, and in particular glass bottles of alcoholic beverages, for example wine, beer, grappa, liquors or other beverages.

[0006] The aforesaid boxes of known type conventionally have prismatic shape, i.e. they are provided with a bottom wall, usually rectangular, on which the bottles are intended to be set down with their extension axis parallel to the bottom wall itself. From the lower perimeter edge of the aforesaid bottom wall, a perimeter wall is extended which on the upper part defines an upper edge of the box, which delimits an access opening, through which the bottles are intended to be inserted.

[0007] In addition, the boxes of known type are usually provided with two or more lateral wings which are extended starting from the upper edge of corresponding sides of the perimeter wall of the box and are susceptible of being folded towards the interior of the box in order to cover the bottles contained therein.

[0008] The boxes of known type are also provided with a closure cover which is susceptible of being placed to cover the access opening, preventing its content from exiting outward. In particular, the closure covers of known type are usually attained in a single body with the box and are extended starting from one side of the upper edge of the box itself. Generally, in addition, the boxes of known type are provided with separator dividers of the bottles, which are susceptible of being inserted between the bottles themselves in order to prevent impact between the latter, for example due to the movement of the box, which can lead to the breakage of several of the bottles involved.

[0009] In addition, the separator dividers of known type

are extended along the entire extension of the bottles in order to prevent them from impacting even only at one end portion thereof.

[0010] The boxes for containing bottles of the known type, briefly described above, have in practice shown that they do not lack drawbacks.

[0011] The main drawback of these boxes of known type lies in the complexity of assembly of such boxes, which involves an extension of the assembly times of the boxes themselves, providing for a step for inserting the separator dividers to separate the bottles contained in the box.

[0012] Indeed, the bottles intended to be inserted in such boxes of known type can be placed in multiple positions, based on their dimensions and on the requirements of the user which assembles the box. In order to allow a greater flexibility in the placement of the bottles within the box, the separator dividers are generally arranged separated from the box, and are intended to be inserted at its interior following the assembly of the box and the insertion of the bottles.

[0013] Therefore, in order to carry out the aforesaid operations of assembly of the box, insertion of the bottles and of the separator dividers, multiple separate steps are necessary which involve an increase of the overall assembly times.

[0014] In addition, it is necessary to provide for two separate machines, or alternatively provide for a single machine provided with two separate die cutters, of which one is intended for producing the box and the other is intended for producing separator dividers, with a consequent increase of the production costs.

[0015] In order to at least partially overcome the drawbacks of the common boxes briefly described up to now, a box is known from the patent EP 2456678 comprising multiple dividing tabs which are extended in a single body starting from the bottom wall and are extended towards the interior of the box to separate two adjacent bottles. More in detail, the dividing tabs are identified by means of a corresponding notch made on the bottom wall of the box. The aforesaid dividing tabs are lifted by means of a fold, which is extended between two free ends of the aforesaid notch, so as to place the tab substantially perpendicular to the bottom wall in order to separate two adjacent bottles placed set down on the bottom wall with their extension axes parallel to each other. Also the aforesaid boxes for containing articles, comprising dividing tabs in a single body that are briefly described above, have in practice shown that they do not lack drawbacks.

[0016] The main drawback lies in the fact that the dividing tabs extended starting from the bottom wall define multiple openings on the latter, through which dirt and humidity could be inserted in the box. In addition, the openings themselves constitute discontinuities on the surface of the bottom wall of the box which, in addition to negatively affecting the aesthetic quality of the box itself, also weaken the bottom wall, not allowing it to contain particularly significant loads.

[0017] The patent application DE 2453309 A1 describes a box of known type for containing phials, which comprises, in particular, a shaped strip which is extended from the side opposite that of the cover, is folded above the bottom wall and is provided with multiple seats in which the phial is placed. The patent applications EP 3287378 A1 and EP 3248896 A1 describe further boxes of known type for containing bottles, which are provided with lateral wings intended to be folded above the bottles and provided with tabs in order to separate the latter from each other. Also the latter solutions of known type do not ensure an optimal protection of the bottles from dirt and humidity.

Presentation of the invention

[0018] In this situation, the problem underlying the present invention is therefore that of overcoming the drawbacks manifested by boxes of known type, by providing a box for containing bottles which does not allow dirt to access within the box itself.

[0019] A further object of the present invention is to provide a box for containing bottles which allows an efficient placement and separation of the bottles.

[0020] A further object of the present invention is to provide a box for containing bottles which is safe and stable during normal use, even with high loads.

[0021] A further object of the present invention is to provide a box that is aesthetically appreciable.

[0022] A further object of the present invention is to provide a box that is versatile in design and adaptable in a simple manner for different numbers of bottles to be contained.

[0023] A further object of the present invention is to provide a box that is quick to assemble.

[0024] A further object of the present invention is to provide a box that is easy and inexpensive to make.

Brief description of the drawings

[0025] The technical characteristics of the invention, according to the aforesaid objects, can be clearly seen from the contents of the below-reported claims and the advantages thereof will be more evident in the following detailed description, made with reference to the enclosed drawings, which represent merely exemplifying and non-limiting embodiments of the invention, in which:

- figure 1 shows a front view of the box, object of the invention, illustrated in an open configuration;
- figure 2 shows a rear perspective view of the box of figure 1;
- figure 3 shows an upper plan view of the not-assembled box of figure 1;
- figure 4 shows a lower view of the bottom wall of a box, object of the present invention.

Detailed description of a preferred embodiment

[0026] With reference to the enclosed drawings, reference number 1 overall indicates a box for containing bottles according to the present invention, and preferably for containing bottles of alcoholic beverages, such as wine.

[0027] The box 1, object of the present invention, is preferably intended to contain a plurality of bottles provided with a wide base and with a narrow neck, which are extended along a main extension direction and are connected to each other by a shoulder.

[0028] Advantageously, the present box 1 is made of cardboard, and in particular of die-cut cardboard, which is susceptible of being cut and folded in order to obtain the box 1 itself in a single body.

[0029] The present box 1 comprises in a single body a bottom wall 3, which is perimetrically delimited by a lower edge 31, preferably quadrangular.

[0030] The box 1 is intended to contain bottles of any type such as for example "Bordeaux", "Burgundy", "Rhine" or still other types of bottles and preferably champagne bottles, known in the jargon of the field as "champagnotte" or a sparkling wine-type bottle. The latter in particular connect the wide base with the narrow neck by means of a shoulder shaped with a double curvature comprising a first convex curvature and a second concave curvature substantially symmetric with respect to each other. Of course, the box 1, object of the present invention, is intended to contain bottles of any shape, different from that of the abovementioned bottles, without departing from the scope of the present patent.

[0031] Preferably, the bottles are set down within the box 1 with its wide body side-by-side the narrow neck of an adjacent bottle, so as to place the bottles in a configuration known in the jargon of the field as "cross" configuration.

[0032] In this manner, two bottles placed in the aforesaid cross configuration are separated from each other by an interspace of substantially constant width.

[0033] Otherwise, it is possible to place the bottles within the box 1 in a different manner, for example by flanking all the narrow necks of the adjacent bottles.

[0034] The present box 1 also comprises, in a single body, a perimeter wall 4, which rises starting from the lower edge 31 of the bottom wall 3, preferably orthogonal to the latter, up to an upper edge 41. The perimeter wall 4 is provided with four sides 410, 420, 430, 440 two-by-two parallel and delimits an access opening 42 for inserting the bottles in the box 1.

[0035] Preferably, the lower edge 31 and the upper edge 41 have the same rectangular shape, i.e. they are shaped with coinciding forms.

[0036] Advantageously, the perimeter wall 4 of the box 1 rises substantially perpendicular to the bottom wall 3 for a height at least equal to the size of the bottles to be contained. More in detail, the height of the box 1, and in particular its internal height, measured between an inter-

nal face of the bottom wall 3 and the upper edge 41 of the box 1 itself, is preferably substantially equal to the diameter of the wide base of the bottles intended to be contained at its interior.

[0037] The present box 1 also comprises, in a single body, a cover 5, which is adapted to close the access opening 42. This is extended with a first fold 51 starting from the upper edge 41 of a first side 410 of the perimeter wall 4. The box 1 also comprises a shaped strip 6, which is extended with at least one second fold 62 starting from the perimeter edge 41 of a second side 420 of the perimeter wall 4 parallel and opposite the first side 410.

[0038] The cover 5, the perimeter wall 4 and the bottom wall 3 internally define a containment volume, adapted to house the bottles.

[0039] Advantageously, the cover 5 comprises a closure strip 52, which is extended with a sixth fold 53 starting from a closure edge of the cover 5, distal with respect to the first fold 52. Preferably, such closure strip 52 is susceptible of being inserted within the containment volume of the box 1, in order to retain the cover 5 in a closed position, in which it is placed to cover the bottles. Otherwise, the closure strip 52 is susceptible of remaining outside the containment volume, and is susceptible of being connected to the second side 420 of the perimeter wall 4, at a visible external surface of the same second side 420, for example by means of an adhesive element interposed between the closure strip 52 and the second side 420.

[0040] The shaped strip 6 of the box 1 is also provided with a third fold 63, which is parallel to the second fold 62 and delimits, on the shaped strip 6, a connector portion 7, interposed between the second and the third fold 62, 63, and a false bottom portion 8 which is extended set down on the bottom wall 3 between the third fold 63 and an opposite end edge 8', placed side-by-side the first side 410 of the perimeter wall 4, in order to at least partially cover the bottom wall 3. The false bottom portion 8 is intended to receive the bottles set down with their extension axes substantially parallel to each other and orthogonal to the second folds 62.

[0041] In this manner, the box 1 is provided with high rigidity and is arranged for containing a high number of bottles and a high load.

[0042] In addition, the end edge 8' of the false bottom portion 8 is advantageously placed in abutment against the first side 410 of the perimeter wall 4 in order to allow the false bottom portion 8 to completely cover the bottom wall 3 and support the bottles set down.

[0043] In particular, the placement of the end edge 8' placed side-by-side the first side 410 prevents the elastic potential energy stored in the second and third folds 62, 63 of the shaped strip 6 from bringing the corresponding connector portion 7 and false bottom portion 8 back towards a coplanar situation, with consequent moving away of the false bottom portion 8 from the bottom wall 3.

[0044] In addition, in this manner, the bottles are set down within the box 1 on a continuous and substantially

planar surface, defined by the false bottom portion 8, in order to confer stability and rigidity to the box 1, as well as to increase the aesthetic quality of the present box 1.

[0045] The present box 1 also comprises at least one lateral wing 9 intended to be placed to cover the bottles set down on the false bottom portion 8. Each lateral wing 9 is extended with a fourth fold 91 starting from the upper edge 41 of a third or of a fourth side 430, 440 of the perimeter wall 4. The latter third and fourth sides 430, 440 are opposite and adjacent to the first and to the second side 410, 420 of the perimeter wall 41, they are placed to join the same first and second sides 410, 420 and preferably are perpendicular with respect thereto.

[0046] According to the idea underlying the present invention, the box 1 comprises a plurality of dividing tabs 10, which are each extended with a fifth fold 100 starting from the lateral wing 9, inside the containment volume when the lateral wing 9 is folded above the bottles, i.e. placed parallel to the false bottom portion 8. The dividing tabs 10 are placed side-by-side along a flanking direction Y of the bottles, substantially parallel to the first and second sides 410, 420 of the perimeter wall 4. The fifth folds 100 are placed transversely with respect to the first and to the second side 410, 420 of the perimeter wall 4 in order to separate the bottles intended to be placed side-by-side with their main extension axis parallel to the third and fourth sides 430, 440.

[0047] In particular, each tab 10 is susceptible of separating the bases of adjacent bottles, in order to prevent these from coming into contact with each other, in case of movement of the box 1 or accidental impact against this. Such tabs 10 therefore prevent the bottles from impacting each other, risking breakage or being damaged. More in detail, each dividing tab 10 is susceptible of being inserted in the interspace defined between a pair of bottles and is adapted to separate from each other at least one portion of the aforesaid bottles in order to prevent impact between them.

[0048] Advantageously, the dividing tabs 10 are susceptible of maintaining the bottles in an oriented position, preferably in which a label of the bottle is directed towards the access opening, in order to be able to view such label with the box 1 open.

[0049] In accordance with an embodiment variant not illustrated in the enclosed figures, the connector portion 7 of the box 1 comprises housing openings for the neck and/or the base of the bottles, in order to maintain the bottles stably on the false bottom portion 8 in particular in the aforesaid oriented position. More in detail, in accordance with such embodiment, the connector portion 7 of the shaped strip 6 has substantially box-like form and defines a containment volume, which is in communication with the housing openings, in order to at least partially house the neck and/or the base of the bottles. Advantageously, the connector portion 7 comprises multiple narrow housing openings, and multiple wide housing openings (e.g. three) which are placed alternated along the second side 420, in order to allow the alternated in-

section of a neck and of a base of a bottle, to place the aforesaid bottles in a "cross" configuration.

[0050] Otherwise, the connector portion 7 comprises narrow housing openings in order to allow the insertion of the respective necks side-by-side (e.g. six).

[0051] In this manner, the bottles can be maintained in position within the present box 1 during the movement of the box 1 or in case of accidental impact against this, since at least one between neck or base of the bottle is placed to traverse the housing openings made on the connector portion 7 and is at least partially housed within the containment volume defined by the connector portion 7. Of course, without departing from the protective scope of the present invention, the box 1 can comprise a different number of narrow and/or wide housing openings, such as for example 2, 4 or 8.

[0052] In addition, the box 1 is particularly inexpensive to make and assemble since the various components of the box 1 itself, i.e. bottom wall 3, perimeter wall 4, cover 5 and shaped strip 6, are made of a single body.

[0053] Advantageously, on the false bottom portion 8, a first grip opening 81 is made, in order to define a manual grip, susceptible of being engaged by the user's finger in order to lift the false bottom portion 8 from the bottom wall 3 on which it is set down. The grip opening 81 is advantageously extended starting from the end edge 8' of the false bottom portion 8 and preferably has semi-circumferential form. More in detail, the grip opening 81 is made by means of a notching operation 81', from the end edge 8' towards the interior of the false bottom portion 8, which thus involves a removal from the false bottom portion 8 itself.

[0054] Otherwise, it is possible to make the grip opening 81 in a lateral position of the false bottom portion 8, and preferably in this case provide for two grip openings 81, placed on opposite sides of the false bottom portion 8.

[0055] In accordance with an embodiment variant, not illustrated in the enclosed figures, the shaped strip 6 comprises a grip element, e.g. a lace or a folded strip, which is fixed to the false bottom portion 8 and can be grasped by a user in order to lift the false bottom portion 8 away from the bottom wall 3, so as for example to fold the box 1 into a closed configuration, with limited size.

[0056] In accordance with the preferred embodiment, illustrated in the enclosed figures, the dividing tabs 10 are extended from the aforesaid lateral wing 9 towards the false bottom portion 8, when the lateral wing 9, carrying dividing tabs 10, is placed to cover the bottles. Preferably, in such position of the lateral wing 9, each dividing tab 10 is placed substantially orthogonal to the false bottom portion 8.

[0057] More in detail, the dividing tabs 10 are extended from a central portion of the lateral wing 9 and they are made from notch 30, which is attained in the lateral wing 9 and substantially "C" shaped, with the corresponding fifth fold 100 extended between two second free ends 30', 30" of the notch 30.

[0058] Preferably, the dividing tabs 10 of such central

portion of the lateral wing 9 are substantially equidistant from the first and from the second side 410, 420 when the lateral wing 9 is placed to cover the bottles.

[0059] Preferably, the dividing tabs 10 are placed equidistant from each other along the direction Y.

[0060] Advantageously, the dividing tabs 10 are intended to be attained at the wide body of the bottles, with the corresponding lateral wing 9 placed to cover the bottles, in a manner such that each notch 30 defines a window in the lateral wing 9 itself, adapted to make visible the labels of the bottles covered by the lateral wing 9.

[0061] Therefore, the box 1 advantageously allows the identification of the bottles contained at its interior and can also be used as display for the bottles themselves.

[0062] In accordance with the embodiment illustrated in the enclosed figures the box 1 comprises two lateral wings 9, for example including a first larger lateral wing 9' and a second smaller lateral wing 9" for allowing the equidistant positioning of the dividing tabs 10 along the width of the box 1. More in detail, the first lateral wing 9' has extension greater than the second lateral wing 9" along the direction Y, between the corresponding fourth fold 91 and a corresponding end edge.

[0063] Advantageously, on the first lateral wing 9', two dividing tabs 10 are made and on the second lateral wing 9" three dividing tabs 10 are made.

[0064] In accordance with an embodiment variant not illustrated in the enclosed figures, the box 1 comprises two symmetric lateral wings 9 with equal extension. Advantageously, one of the dividing tabs 10 is extended starting from the end edge 92 of one of the two lateral wings 9 with the corresponding fifth fold 100 attained on the end edge 92 itself. More particularly, from the aforesaid fifth fold 100 attained on the end edge 92, a corresponding dividing tab 10 is extended, which is arranged for dividing two bottles and is substantially placed in a median position of the box, along the direction Y. Advantageously, the remaining dividing tabs 10 are attained two-by-two on the internal portions of the respective lateral wings 9 as described above.

[0065] In order to increase the speed of assembly of the box 1, the bottom wall 3 is advantageously made in automatic bottom form, well-known to the man skilled in the art and hence not described in detail herein.

[0066] In particular, the bottom wall 3 comprises two first lower wings 32, extended starting from the lower edge 31 of the third and fourth sides 430, 440 from which the two above-described lateral wings 10 are extended.

[0067] In addition, the bottom wall 3 advantageously comprises two second lower wings 33, extended starting from the lower edge 31 of the first side 410, from which the cover 5 is extended, and from the lower edge 31 of the second side 420, from which the shaped strip 6 is extended.

[0068] Advantageously, moreover, each of the first lower wings 32 is hinged to one of the corresponding second lower wings 33 along a junction line 34, which is tilted with respect to the lower edge 31 of the first and

third sides 410, 430 or of the second and fourth sides 420, 440.

[0069] In accordance with one possible embodiment, the junction line 34, along which a first and a second lower wing 32, 33 are hinged, coincides with a fold line provided for on the second lower wing 33, and from such fold line the second lower wing 33 is extended with a junction flap 33' susceptible of being fixed to the first lower wing 32. Advantageously, in this manner, the first and the second lower wing 32, 33 are joined together by the aforesaid junction flap 33', with the second lower wing 33 free to rotate with respect to the first lower wing 32 around the junction line 34.

[0070] Indeed, in operation the first lower wing 32 is susceptible of being rotated with respect to the second lower wing 33 around the corresponding junction line 34 between a retracted position and an extended position.

[0071] More in detail, in the aforesaid retracted position, the first and the second lower wing 32, 33 are susceptible of being placed substantially parallel to each other and parallel to the perimeter wall 4 of the box 1, with the box 1 placed in a collapsed configuration and not adapted to contain the bottles at its interior.

[0072] In addition, in the extended position, the first and the second lower wing 32, 33 are susceptible of being placed coplanar to each other and perpendicular to the perimeter wall 4, with the box 1 placed in an open configuration adapted to contain the bottles at its interior.

[0073] Advantageously, in the aforesaid open configuration of the box 1, the first and the second lower wing 32, 33 substantially constitute one half of the bottom wall 3 and they are susceptible of being fit at the corresponding opposite first and second lower wings 32, 33 in order to form the entire bottom wall 3.

[0074] The two pairs of lower wings hinged to each other along the junction line 34 are thus susceptible of being fit with each other, e.g. via shape coupling or via partial superimposition, along an engagement line 35, which is extended advantageously parallel to the first and second sides 410, 420 and at the center line on the bottom wall 3 itself.

[0075] Advantageously, the bottom wall 3 thus made is susceptible of being constituted by a shape fitting of the first and second lower wings 32, 33 and allows a quicker assembly of the box 1, since it does not require fixing the first and second lower wings 32, 33, for example by means of adhesive tape or other fixing means.

[0076] Of course the bottom wall 3 can also be attained in other modes without departing from the protective scope of the present patent. For example, the box 1 can be provided with a bottom wall of the type known in the field as "American bottom" in which the lower wings are simply surmounted and fixed together by means of adhesive tape.

[0077] The box 1 thus conceived therefore reaches the pre-established objects.

Claims

1. Box for containing bottles, which comprises in a single body:

- a bottom wall (3), which is delimited perimetrically by a lower edge (31);
- a perimeter wall (4), which rises starting from the lower edge (31) of said bottom wall (3) up to an upper edge (41) with four sides (410, 420, 430, 440) two-by-two parallel, and delimits an access opening (42) for inserting bottles in said box (1);
- a cover (5) intended to be placed to at least partially close said access opening (42) and extended with a first fold (51) starting from the upper edge (41) of a first side (410) of said perimeter wall (4);
- said cover (5), said perimeter wall (4) and said bottom wall (3) delimiting a containment volume, adapted to house said bottles;
- a shaped strip (6) extended with a second fold (62) starting from the upper edge (41) of a second side (420) of said perimeter wall (4) parallel and opposite to said first side (410), said shaped strip (6) being provided with at least one third fold (63) parallel to said second fold (62), which delimits a connector portion (7) interposed between said second and third folds (62, 63) and a false bottom portion (8), which is extended set down on said bottom wall (3) between said third fold (63) and an opposite end edge (8'), placed side-by-side the first side (410) of said perimeter wall (4), in order to at least partially cover said bottom wall (3);
- said false bottom portion (8) being intended to receive said bottles set down with the extension axes parallel to each other and orthogonal to said second folds (62);
- at least one lateral wing (9) intended to be placed to cover said bottles and extended with a fourth fold (91) starting from the upper edge (41) of one between a third or a fourth side (430, 440) of said perimeter wall (4), opposite each other and adjacent to the first and second sides (410, 420) of said perimeter wall (4);

said box (1) being **characterized in that** it comprises a plurality of dividing tabs (10), each extended with a fifth fold (100) starting from said at least one lateral wing (9), directed inside said containment volume, placed side-by-side along a flanking direction of the bottles (Y) substantially parallel to first and second sides (410, 420) of said perimeter wall (4);

said fifth folds (100) being arranged transversely with respect to the first and second

sides (410, 420) of said perimeter wall (4)
in order to separate the bottles from each
other.

2. Box according to claim 1, **characterized in that** said
dividing tabs (10) are extended from said at least
one lateral wing (9) orthogonally towards said false
bottom portion (8) with said lateral wing (9) placed
to cover said bottles. 5
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3. Box according to claim 2, **characterized in that** said
dividing tabs (10) are extended from a central portion
of said lateral wing (9), each are made by means of
a notch (30) made in said lateral wing (9) and sub-
stantially "C" shaped, with the corresponding fifth
fold (100) extended between two second free ends
(30', 30'') of said notch (30). 15
4. Box according to claim 2 or 3, **characterized in that**
it comprises two lateral wings (9), including a first
lateral wing (9') and a second lateral wing (9''); said
first lateral wing (9') having greater extension than
said second lateral wing (9'') along said flanking di-
rection (Y) of the bottles, between the corresponding
said fourth folds (91) and corresponding free end
edges (92) of said lateral wings (9). 20
25
5. Box according to claim 4, **characterized in that**, on
said first lateral wing (9'), two of said dividing tabs
(10) are made and that, on said second lateral wing
(9''), three of said dividing tabs (10) are made in order
to separate six bottles from each other. 30
6. Box according to claim 2 or 3, **characterized in that**
it comprises two symmetrical lateral wings (9) having
equal extension, and that one of said dividing tabs
(10) is extended starting from the end edge (92) of
one of said two lateral wings (9) with the correspond-
ing said fifth fold (100) attained on said end edge
(92). 35
40
7. Box according to any one of the preceding claims,
characterized in that, on the false bottom portion
(8), at least one first grip opening (81) is made, in
order to define a manual grip engageable by a user's
finger. 45
8. Box according to claim 7, **characterized in that** said
first grip opening (81) is extended starting from the
end edge (8') of said false bottom portion (8). 50

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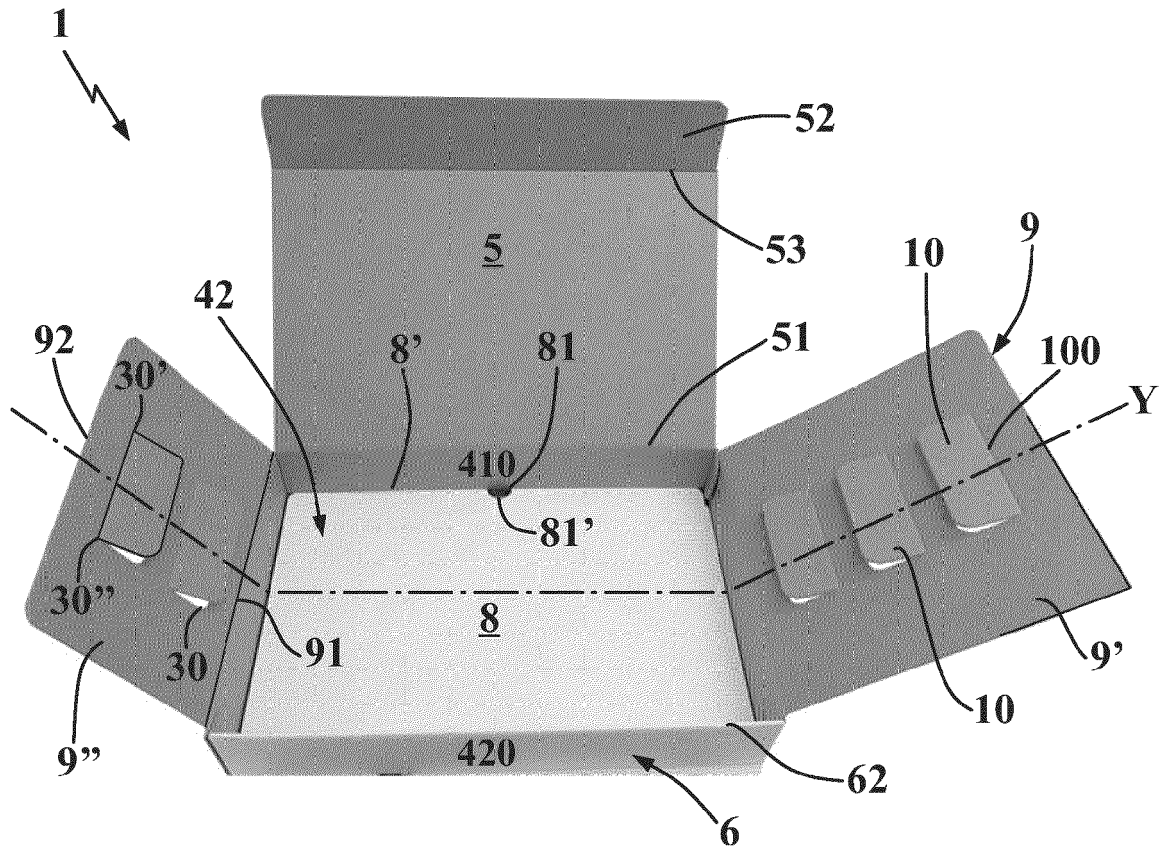


Fig. 1

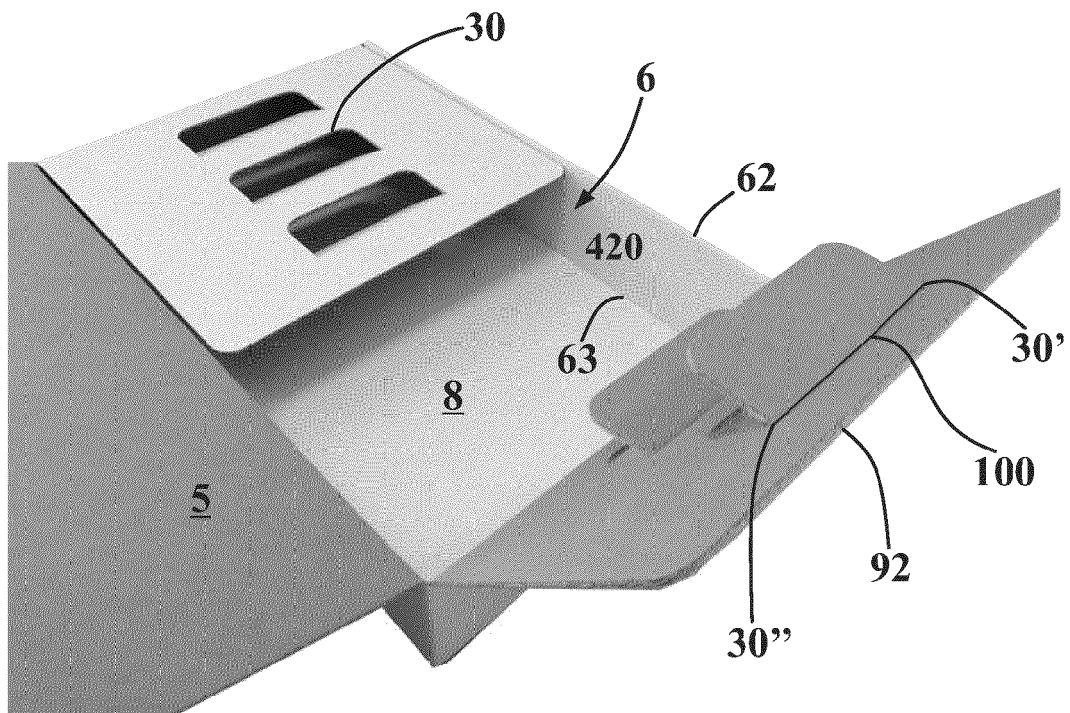


Fig. 2

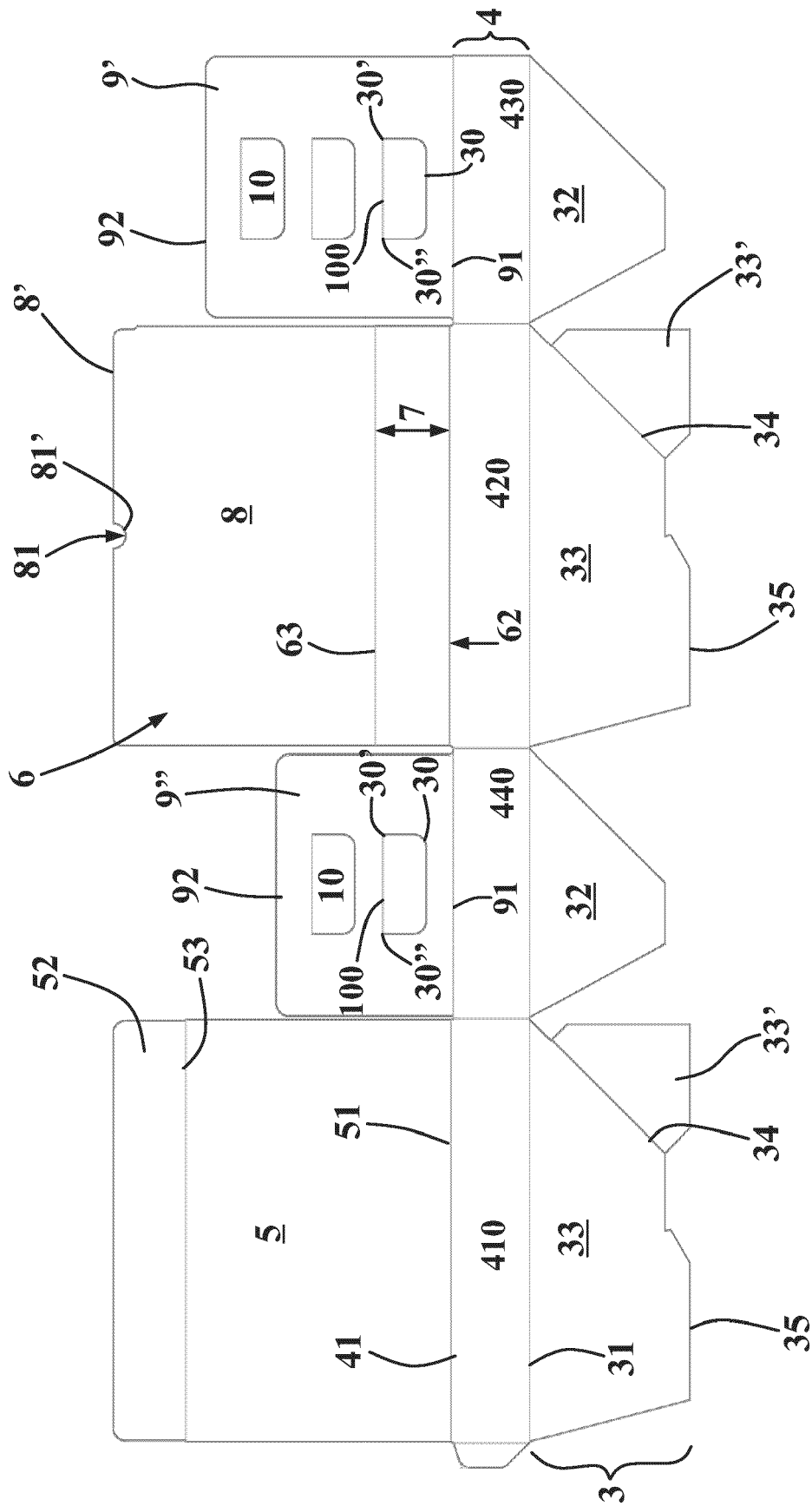


Fig. 3

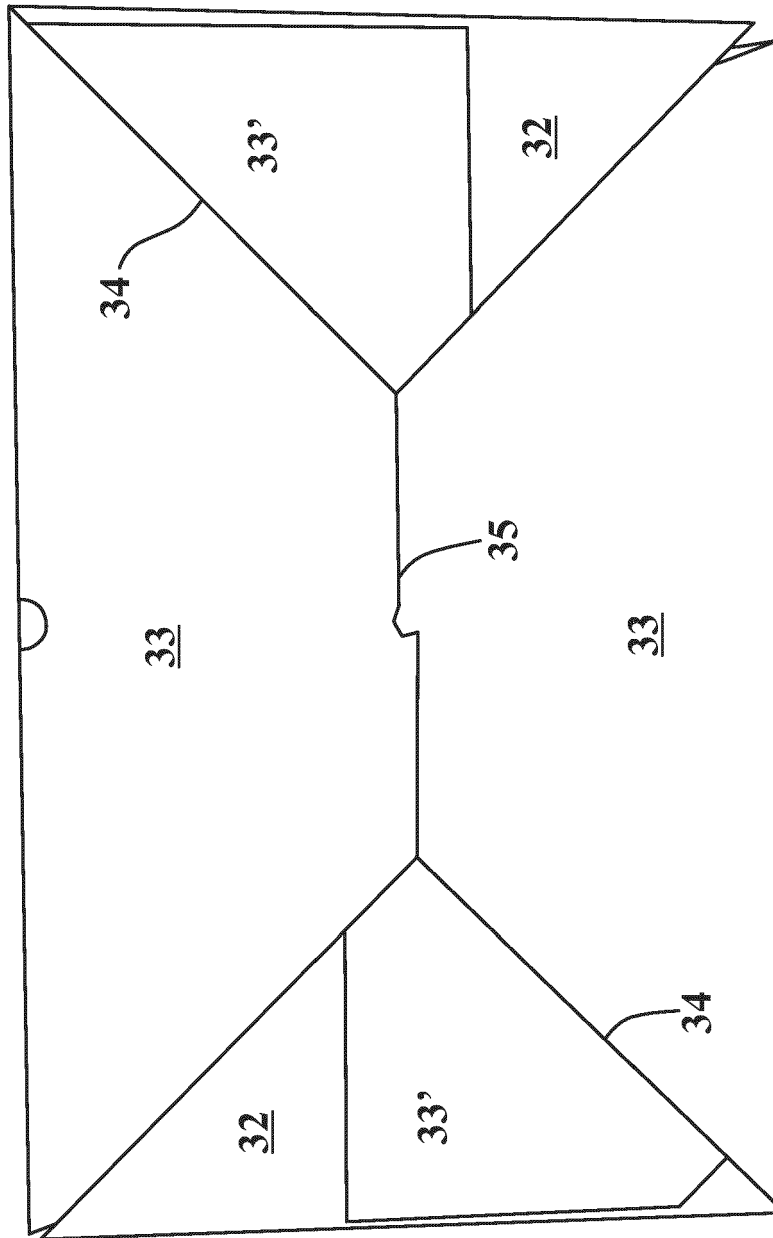


Fig. 4



EUROPEAN SEARCH REPORT

Application Number

EP 21 21 5595

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EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DE 24 53 309 A1 (EDELMAANN CARL GMBH) 20 May 1976 (1976-05-20) * figures 1, 4 *	1-8	INV. B65D5/50 B65D5/44 B65D5/48 B65D5/489
A	EP 3 287 378 A1 (DINKHAUSER KARTONAGEN GMBH [AT]) 28 February 2018 (2018-02-28) * figures 4-8 *	1-8	
A	EP 3 248 896 A1 (BERTOLIN IMBALLAGGI S R L [IT]) 29 November 2017 (2017-11-29) * figure 3 *	1-8	
			TECHNICAL FIELDS SEARCHED (IPC)
			B65D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 May 2022	Examiner Balz, Oliver
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 21 21 5595

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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13-05-2022

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 2453309	A1	20-05-1976	NONE
EP 3287378	A1	28-02-2018	NONE
EP 3248896	A1	29-11-2017	NONE

REFERENCES CITED IN THE DESCRIPTION

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