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(54) **Multiple bottle holder**

Flaschenträger

Porte-bouteilles

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(73) Proprietor: **Berga Ferrer, Josep Ma**
17857 Sant Juan les Fonts (ES)

(72) Inventor: **Berga Ferrer, Josep Ma**
17857 Sant Juan les Fonts (ES)

(74) Representative: **Isern-Jara, Nuria et al**
J. Isern Patentes y Marcas
Avda. Diagonal 463 Bis 2°
08036 Barcelona (ES)

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EP 2 284 094 B1

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Description

OBJECT OF THE INVENTION

[0001] The object of this invention is a multi bottle holder which enables bottles to be affixed in said holder in order to be transported from one place to another.

[0002] Due to its special configuration, the multiple bottle holder is presented with holes into which the bottle neck is inserted, preventing it from coming out due to its own weight.

[0003] Similarly, this configuration of the bottle holder permits one multiple holder to be placed on a lower multiple holder, and so on successively, until a stack of holders is built up.

BACKGROUND TO THE INVENTION

[0004] Flexible multiple holders of containers are known in the state of the art, made from plastic or similar material, which are provided with a handle for gripping and a series of holes where the body of the container is inserted.

[0005] The foregoing include international application W02008/027121 concerning a multiple holder-transporter of containers where said containers are affixed to the holder by the body of the container, due to the flexible properties of the holder.

[0006] Nevertheless, in the previous holder it is sometimes difficult to extract the containers or bottles from the holder due to the resistance of that material, and more so when the bottles are affixed to the holder by the bottle body, therefore it is necessary to remove the holder along a large part of the bottle body, which increases the time taken by the end user to remove the holder.

[0007] Furthermore, there are cardboard holders which, during packaging of the bottles, cans or containers in general, or during transport, generate irregular fold lines, due to the forces transmitted from the edge of the apertures at the edge of the holder.

[0008] These irregular lines worsen the final state of the holder and their final appearance from the consumer's perspective.

[0009] All these disadvantages are overcome with this invention which is described in detail below.

[0010] It is known in the state of the art a package for food articles as the one disclosed in FR 2684079, which discloses a multiple bottle holder in accordance with the preamble of claim 1, which consists of a panel made of sheet material which comprises cut-out sections which, when the panel is folded along folding lines, form respective collars for receiving articles. The folding lines are arranged such that once the panel is folded, a reinforcing and spacing rib is formed at an intermediate position between adjacent articles and extending downwards with respect to the general plane of the rest of the panel. The reinforcing and spacing rib is preferably oriented perpendicular to a line joining the corresponding containers. The

panel is typically designed, when it is folded, to hold groups of food or drink containers.

DESCRIPTION OF THE INVENTION

[0011] This invention is defined by a multiple bottle holder according to appended claim 1.

[0012] The holder is provided with apertures formed from cut lines and fold lines which permit insertion of the bottle neck, preventing this from coming out of the aperture as a result of its own weight.

[0013] The fold lines form a regular polygon, whereas the cut lines are arranged from the points of that polygon to the centre thereof.

[0014] In this way, the bottle neck is inserted in said aperture which prevents it from coming out again as a result of its own weight, due to the locking of the cap or a rim in the bottle neck, in the points or sections defined between each two cut lines adjacent to the apertures.

[0015] The multiple holder is provided with a handle which enables the bottles to be carried from one place to another once they have been inserted in the apertures.

[0016] Leading from each of the multiple holder apertures there is at least one weakening line which extends to one of the edges of the multiple holder which releases the tensions which could be generated during the grouping or transport of the bottles in said multiple holder, and thus avoiding the formation of irregular fold lines.

DESCRIPTION OF THE DRAWINGS

[0017] The present descriptive report is complemented by a set of plans illustrating a preferred embodiment of the invention, but which is in no way restrictive.

Figure 1 shows a ground view of the development of the multiple holder made from a single sheet of cardboard.

Figure 2 shows a perspective view of the multiple holder carrying 4 bottles in transport.

Figure 3 shows a detail of the multiple holder in which part of its handle may be folded in order to deposit on the group of bottles carried by the multiple holder, another group of bottles with another multiple holder.

PREFERRED EMBODIMENT OF THE INVENTION

[0018] In view of the aforementioned description, this invention refers to a multiple bottle holder formed from a single sheet (1) of perforated cardboard which permits the bottles (2) to be affixed in said multiple holder in order to be carried from one place to another.

[0019] In this example of an embodiment of the multiple holder there are four apertures (1.1) formed from cut lines (1.1.1) and fold lines (1.1.2) which permit insertion of the bottle(2) neck (2.1) preventing this (2) from coming

out of the aperture (1.1) as a result of its own weight.

[0020] The fold lines (1.1.2) form a regular polygon, in this case a hexagon, whereas the cut lines (1.1.1) are arranged from the points of that polygon to the centre thereof.

[0021] In the centre of said regular polygon there is a perforated area (1.1.3) which defines the same regular polygon, however with reduced dimensions.

[0022] In this way, the bottle (2) neck (2.1) is inserted in the aperture (1.1) which prevents said bottle (2) coming out once more from said aperture (2.1) as a result of its own weight, due to the locking in the cap (2.2) or in a rim (2.1.1) present in the bottle (2) neck (2.1) of the sections (1.1.3.1) of the perforation (1.1.3) defined between each two cut lines adjacent to the apertures, which increases the contact surface between the multiple holder and bottles, and therefore their retention.

[0023] The multiple holder is provided with a handle (1.2) which is formed by folding the sheet (1) of cardboard through a central fold line (1.3) which divides the multiple holder into two halves, with the four apertures (1.1) arranged two on each side of the central fold line (1.3) in symmetrical arrangement with respect to said line.

[0024] Due to the other two fold lines (1.4) which separate the handle zone (1.2) from the multiple holder and which are defined in each of the two halves of the multiple holder, two gripping zones (1.5) are created which are joined by connection means, in this example using glue or adhesive.

[0025] On these two gripping zones (1.5) there are respective C-shaped perforations (1.5.1) which permit the user or consumer to carry the multiple holders when said zones (1.5) have been joined.

[0026] In addition, two other fold lines (1.6) are arranged between the C-shaped perforations (1.5.1) and the central fold line (1.3) which permit folding of the upper part of the gripping zones (1.5) with these fold lines (1.6) at the height of the upper end of the bottle (2) caps (2.2) which permits another group of bottles (2) joined in another multiple holder to rest on them, thus successively building a stack of said multiple holders.

[0027] There are two weakening lines (1.7) running from each of the apertures (1.1) of the multiple holder which extend to the edge (1.8) of the multiple holder furthest from the handle (1.2) in order to release tensions which could be generated during the grouping or carrying of the bottles in said holder.

[0028] Similarly, the multiple holder is provided with a perforation in the form of an entrance (1.8.1) on the edge (1.8) of the multiple holder furthest from the handle (1.2) which assists in positioning it when the bottles (2) are affixed.

[0029] Running from this entrance (1.8.1) the multiple holder is provided with another weakening line (1.7) with the same purpose as the previous ones.

[0030] In another example of an embodiment, the multiple holder is formed from two cardboard sheets (1), where the handle (1.2) is formed by joining with connec-

tion means, preferably by gluing, two zones (1.5) present in each of the two cardboard sheets (1), which define the two halves of the multiple holder, with therefore, no central folding line (1.3).

[0031] In both examples of a preferred embodiment, the two halves of the multiple holder are identical, in order to house the same number of bottles on either side of the handle (1.2).

Claims

1. A multiple bottle holder formed from a single cardboard sheet (1) provided with apertures (1.1) formed from the basis of cut lines (1.1.1) and fold lines (1.1.2) which each (1.1) permit insertion of the bottle (2) neck (2.1) preventing the bottle (2) from coming out of said apertures (1.1) due to its own weight, where the fold lines (1.1.2) form a regular polygon, whereas the cut lines (1.1.1) are arranged from the points of said polygon to the centre thereof, the multiple bottle holder being provided with a handle (1.2) which is formed through a central fold line (1.3) which divides the multiple holder into two halves having two fold lines (1.4) defined in the two halves of the multiple holder, which define two zones (1.5) which are joined through connection means in order to stiffen the handle (1.2) wherein in on the two zones (1.5) joined through connections means there are respective perforations (1.5.1) which permit the user or consumer to hold the multiple holder when said zones (1.5) are joined, **characterized in that** the multiple bottle holder is additionally provided with two other fold lines (1.6) which are arranged between the perforations (1.5.1) and the central fold line (1.3) which permit folding of the upper part of the gripping zones (1.5) with these fold lines (1.6) at the height of the upper end of the bottle (2) caps (2.2) which permits another group of bottles (2) joined in another multiple holder, thus successively building a stack of said multiple holders.
2. Multiple bottle holder according to claim 1 **characterised in that** the points or sections defined between every two cut lines adjacent to the apertures prevent the bottle (2) from coming out of the apertures as a result of its own weight, due to its locking in the cap (2.2) or a rim (2.1.1) present in the bottle (2) neck (2.1).
3. Multiple bottle holder according to claim 1 **characterised in that** it is provided, leading from each of the multiple holder apertures (1.1) with at least one weakening line (1.7) which extends to one of the edges (1.8) of the multiple holder which releases the tensions which could be generated during the grouping or transport of the bottles in said multiple holder, and thus avoiding the formation of irregular fold lines.

4. Multiple bottle holder according to claim 2 **characterised in that** in the centre of said regular polygon there is a perforation (1.1.3) which defines the same regular polygon, however, with reduced dimensions, so that the sections (1.1.3.1) of the perforation (1.1.3) defined between each two cut lines (1.1.1) adjacent to the apertures (1.1) lock in the cap (2.2) or in a rim (2.1.1) present in the bottle (2) neck (2.1).
5. Multiple bottle holder according to claim 3 **characterised in that** it is provided with a perforation in the form of an entrance (1.8.1) on the edge (1.8) of the multiple holder furthest from the handle (1.2) which assists in positioning it when the bottles (2) are affixed.
6. Multiple bottle holder according to claim 5 **characterised in that** it is provided, running from this entrance (1.8.1) with a weakening line (1.7).
7. Multiple bottle holder according to claim 1 **characterised in that** it is provided with four apertures (1.1), arranged symmetrically, two on each side of the central fold line (1.3) or on each side of the sheets which make up the holder which are identical.
8. Multiple bottle holder according to claim 1 **characterised in that** the regular polygon is a hexagon.

Patentansprüche

1. Mehrfachträger für Flaschen, gebildet aus einem einzigen mit Öffnungen (1.1) in Form von Schnittlinien (1.1.1) und Faltlinien (1.1.2) ausgestatteten Blatt Karton (1), wobei jede der Öffnungen (1.1) das Einschieben eines Flaschenhalses (2.1) einer Flasche (2) erlaubt und das Herausrutschen der Flasche (2) aus diesen Öffnungen (1.1) aufgrund des Eigengewichtes verhindert, derart dass die Faltlinien (1.1.2) ein regelmäßiges Vieleck bilden, während die Schnittlinien (1.1.1) von den Scheiteln dieses Vieleckes in die Mitte desselben verlaufen, wobei der Mehrfachträger für Flaschen mit einem mittels einer mittleren Faltlinie (1.3) gebildeten Haltegriff (1.2) ausgestattet ist, welche Faltlinie den Mehrfachträger in zwei Hälften mit zwei definierten Faltlinien (1.4) in den beiden Hälften des Mehrfachträgers teilt, welche zwei Bereiche (1.5) definieren, die über Verbindungsmittel zur Versteifung des Haltegriffs (1.2) verbunden sind, so dass in diesen zwei mittels Verbindungsmitteln verbundenen Bereichen die entsprechenden Perforationen (1.5.1) vorhanden sind die es dem Nutzer oder Verbraucher erlauben, den Mehrfachträger zu halten, wenn diese Bereiche (1.5) verbunden sind, **dadurch gekennzeichnet, dass** der Mehrfachträger für Flaschen zusätzlich mit zwei weiteren Faltlinien (1.6) ausgestattet ist, die zwischen den Durchbrüchen (1.5.1) und der mittleren Faltlinie (1.3) angeordnet sind und das Zusammenklappen des oberen Teils der Haltebereiche (1.5) mit diesen Faltlinien (1.6) auf der Höhe des oberen Endes der Kappen (2.2) der Flasche (2) erlaubt, wodurch eine weitere Gruppe von Flaschen (2) in einem anderen Mehrfachträger vereint werden kann und auf diese Weise die Mehrfachträger sukzessive aufeinander gestapelt werden können.

2. Mehrfachträger für Flaschen nach Anspruch 1, **dadurch gekennzeichnet, dass** die zwischen je zwei an die Öffnungen angrenzenden Schnittlinien definierten Punkte oder Abschnitte verhindern, dass die Flasche (2) aufgrund ihres Eigengewichtes aus den Öffnungen rutscht, da sie durch die Kappe (2.2) oder einen Wulst (2.1.1) am Flaschenhals (2.1) der Flasche (2) zurückgehalten wird.
3. Mehrfachträger für Flaschen nach Anspruch 1, **dadurch gekennzeichnet, dass** er ausgehend von jeder der Öffnungen (1.1) des Mehrfachträgers mit mindestens einer Schwächungslinie (1.7) ausgestattet ist, die sich zu einem der Ränder (1.8) des Mehrfachträgers erstreckt und die Spannungen löst, die während der Ansammlung oder dem Transport der Flaschen in diesem Mehrfachträger entstehen können und auf diese Weise die Bildung unregelmäßiger Faltlinien verhindert.
4. Mehrfachträger für Flaschen nach Anspruch 2, **dadurch gekennzeichnet, dass** in der Mitte dieses unregelmäßigen Vielecks eine Perforation (1.1.3) vorhanden ist, die das gleiche regelmäßige Vieleck beschreibt, jedoch mit kleineren Ausmaßen, so dass die zwischen jeweils zwei an die Öffnungen (1.1) angrenzenden Schnittlinien (1.1.1) definierten Abschnitte (1.1.3.1) der Perforation (1.1.3) an der Kappe (2.2) oder an einem Wulst (2.1.1) am Flaschenhals (2.1) der Flasche (2) zurückgehalten werden.
5. Mehrfachträger für Flaschen nach Anspruch 3, **dadurch gekennzeichnet, dass** er mit einer Perforation in Form eines Einschnitts (1.8.1) am vom Haltegriff (1.2) am weitesten entfernten Rand (1.8) des Mehrfachträgers versehen ist, der zu seiner Positionierung beiträgt, wenn die Flaschen (2) im Träger angeordnet sind.
6. Mehrfachträger für Flaschen nach Anspruch 5, **dadurch gekennzeichnet, dass** er ausgehend von diesem Einschnitt (1.8.1) mit einer Schwächungslinie (1.7) versehen ist.
7. Mehrfachträger für Flaschen nach Anspruch 1, **dadurch gekennzeichnet, dass** er mit vier symmetrisch angeordneten Öffnungen (1.1) versehen ist, zwei auf jeder Seite der mittleren Faltlinie (1.3) oder

auf jeder Seite der den Träger bildenden Blätter, die identisch sind.

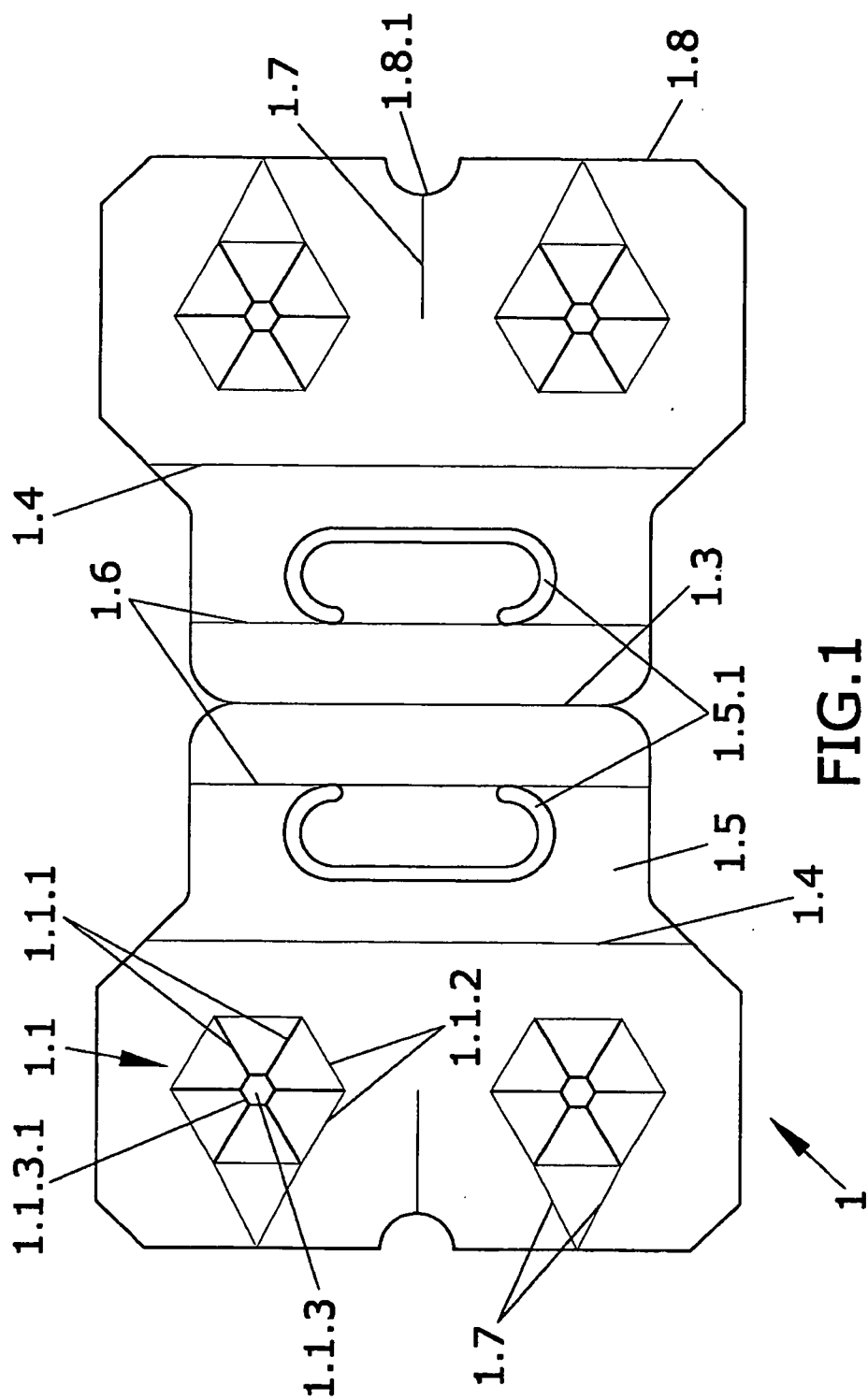
8. Mehrfachträger für Flaschen nach Anspruch 1, **dadurch gekennzeichnet, dass** das regelmäßige Vieleck ein Sechseck ist.

Revendications

1. Support multiple pour bouteilles, constitué d'une seule feuille de carton (1), dotée d'ouvertures (1.1) formées de lignes de découpe (1.1.1) et de lignes de pliage (1.1.2), chacune de ces lignes (1.1) permet l'insertion du col (2.1) d'une bouteille (2) en évitant que la bouteille (2) sorte desdites ouvertures (1.1) du fait de son propre poids, ainsi, les lignes de pliage (1.1.2) forment un polygone régulier alors que les lignes de découpe (1.1.1) sont disposées depuis les sommets dudit polygone jusqu'au centre de celui-ci, le support multiple pour bouteilles est doté d'une poignée (1.2) formée d'une ligne de pliage central (1.3) qui divise le support multiple en deux moitiés possédant deux lignes de pliage (1.4) définies sur les deux moitiés du support multiple, qui définissent deux zones (1.5) réunies par des moyens de raccord afin de donner de la rigidité à la poignée (1.2), de sorte que les deux zones (1.5) réunies par lesdits moyens de raccord comportent, respectivement, des perforations (1.5.1) qui permettent à l'utilisateur ou au consommateur de tenir le support multiple lorsque lesdites zones (1.5) sont réunies. Le dispositif selon l'invention est **caractérisé en ce que** le support multiple pour bouteilles est doté, en plus, de deux autres lignes de pliage (1.6) qui sont disposées entre les perforations (1.5.1) et la ligne de pliage central (1.3), lesdites lignes permettent le pliage de la partie supérieure des zones de préhension (1.5) avec ces lignes de pliage (1.6) à la hauteur de l'extrémité supérieure des capuchons (2.2) de la bouteille (2), ceci permet d'ajouter un autre groupe de bouteilles (2) uni à un autre support multiple et d'obtenir ainsi, successivement, un empilage desdits supports multiples.
2. Support multiple pour bouteilles, selon la revendication 1, **caractérisé en ce que** les points ou section définis toutes les deux lignes de découpe adjacentes aux ouvertures évitent que la bouteille (2) sorte des ouvertures du fait de leur propre poids grâce à leur blocage au niveau du capuchon (2.2) ou d'un rebord (2.1.1) présent dans le col (2.1) de la bouteille (2).
3. Support multiple pour bouteilles, selon la revendication 1, **caractérisé en ce qu'il** est doté, à la sortie de chacune des ouvertures (1.1) du support multiple d'au moins une ligne de préincision (1.7) qui s'étend sur l'un des bords (1.8) du support multiple ; ladite

ligne libre les tensions susceptibles de se produire lors du regroupement ou du transport des bouteilles sur ledit support multiple, évitant ainsi la formation de lignes de pliage irrégulières.

4. Support multiple pour bouteilles, selon la revendication 2, **caractérisé en ce que**, au centre dudit polygone irrégulier, il existe une perforation (1.1.3) définie par le propre polygone régulier, bien que de dimensions réduites, de sorte que les sections (1.1.3.1) de la perforation (1.1.3), définies toutes les deux lignes de découpe (1.1.1) adjacentes aux ouvertures (1.1), se bloquent au niveau du capuchon (2.2) ou d'un rebord (2.1.1) présent dans le col (2.1) de la bouteille (2).
5. Support multiple pour bouteilles, selon la revendication 3, **caractérisé en ce qu'il** est doté d'une perforation en forme d'entrée (1.8.1) sur le bord (1.8) du support multiple plus éloigné de la poignée (1.2) qui permet son positionnement une fois que les bouteilles (2) sont placées.
6. Support multiple pour bouteilles, selon la revendication 5, **caractérisé en ce qu'il** est doté, à la sortie de ladite entrée (1.8.1), d'une ligne de préincision (1.7).
7. Support multiple pour bouteilles, selon la revendication 1, **caractérisé en ce qu'il** est doté de quatre ouvertures (1.1) disposées symétriquement, deux de chaque côté de la ligne de pliage central (1.3) ou de chaque côté des feuilles constituant le support qui sont identiques.
8. Support multiple pour bouteilles, selon la revendication 1, **caractérisé en ce que** le polygone régulier est un hexagone.



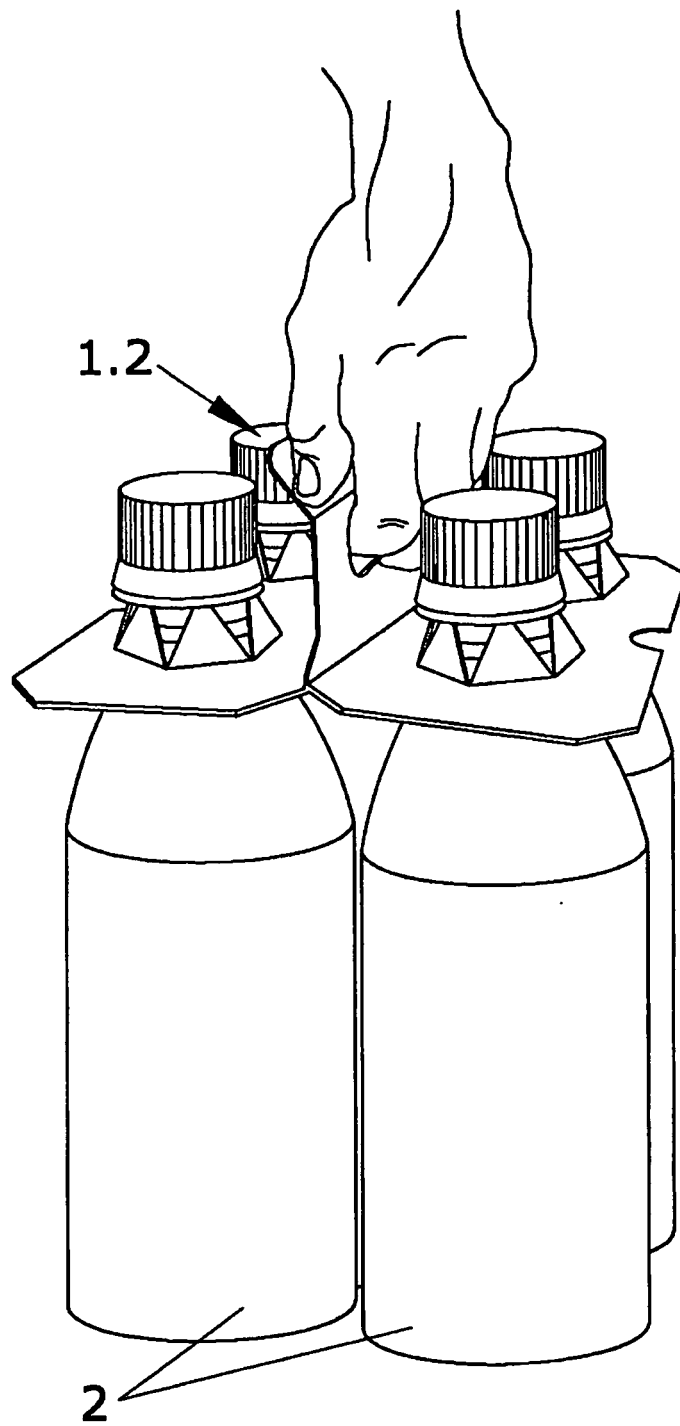


FIG.2

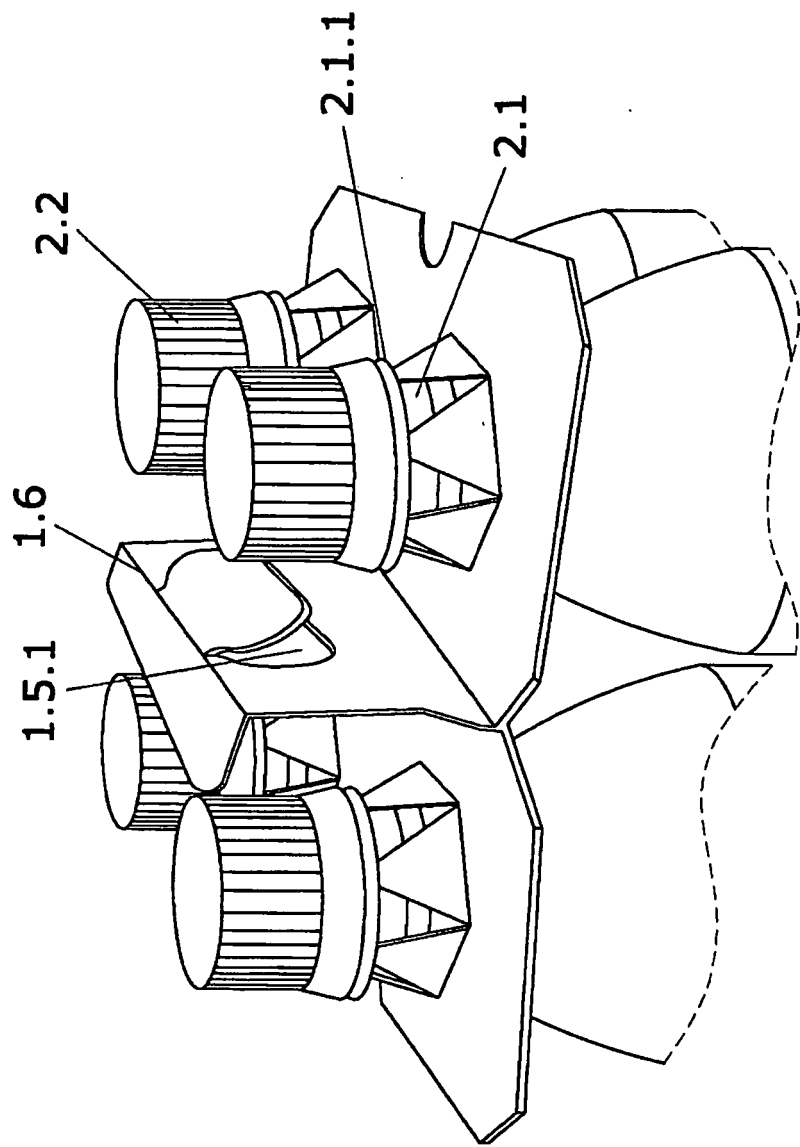


FIG.3

REFERENCES CITED IN THE DESCRIPTION

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