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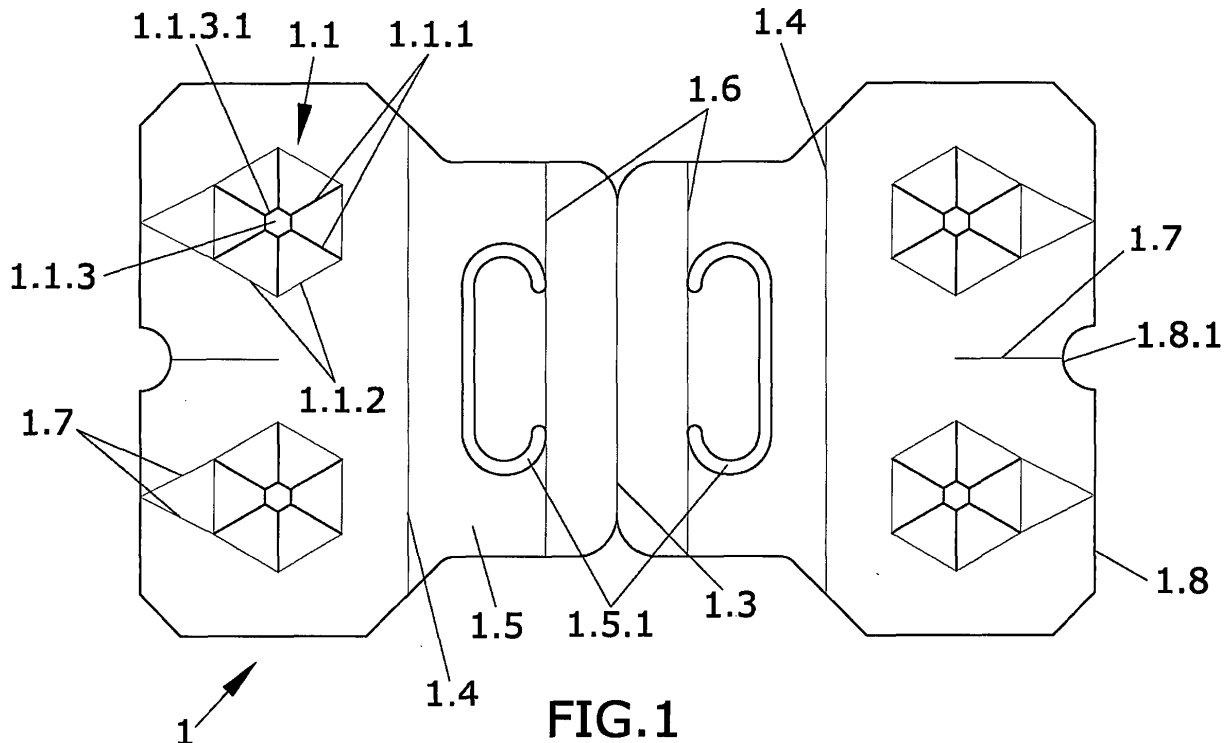
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(54) **Multiple bottle holder**

(57) The object of this invention is a multiple bottle holder (1) which permits bottles to be affixed to the holder in order to be carried from one place to another due to apertures (1.1) which permit the insertion of the bottle (2)

neck (2.1), preventing said bottle (2) from coming out of the aperture (1.1) as a result of its own weight, in addition to which the holder (1) may be stored on another lower holder and thus successively until a stack of holders is built up.



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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.

DESCRIPTION OF THE INVENTION

[0010] This invention refers to a multiple bottle holder, comprising at least one sheet of cardboard which permits the bottles to be affixed in said holder in order to be carried from one place to another.

[0011] 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.

[0012] The fold lines form a regular polygon, whereas the cut lines are arranged from the points of that polygon

to the centre thereof.

[0013] 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.

[0014] 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.

[0015] 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

[0016] 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

[0017] 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.

[0018] 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.

[0019] 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.

[0020] 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.

[0021] 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.

[0022] 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.

[0023] 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.

[0024] 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.

[0025] 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.

[0026] 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.

[0027] 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.

[0028] 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.

[0029] 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 connection 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).

[0030] 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).

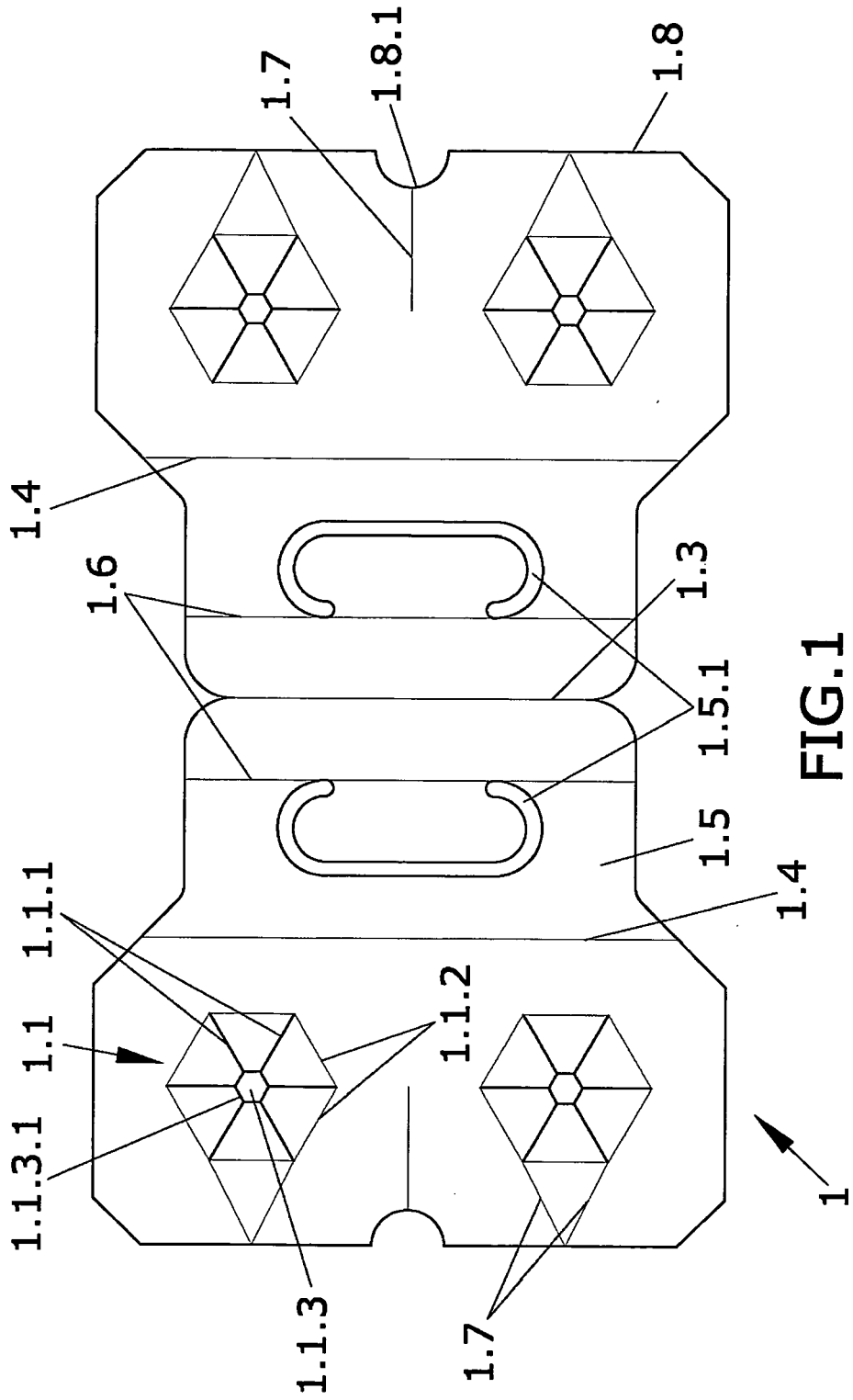
[0031] The essential nature of this invention is not altered by any variations in materials, form, size and arrangement of its component elements, which are described in a non-restrictive manner, with this being sufficient to proceed to its reproduction by an expert.

Claims

1. A multiple bottle holder formed from at least one cardboard sheet (1) **characterised in that** it is 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.
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 or 2 **characterised in that** it is formed from a single cardboard sheet (1).
4. Multiple bottle holder according to claim 3 **characterised in that** it is provided with a handle (1.2) which is formed through a central fold line (1.3) which divides the multiple holder into two halves.
5. Multiple bottle holder according to claim 1 or 2 **characterised in that** it is formed from two cardboard sheets (1) which define the two halves thereof.
6. Multiple bottle holder according to claim 5 **characterised in that** it is provided with a handle (1.2) which is formed by joining two zones (1.5) present in each of the two cardboard sheets (1).
7. Multiple bottle holder according to claim 4 or 6 **characterised in that** it is provided with 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).
8. Multiple bottle holder according to claim 7 **characterised in that** on the two zones (1.5) joined through connection 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.
9. 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 group-

ing or transport of the bottles in said multiple holder,
and thus avoiding the formation of irregular fold lines.

10. Multiple bottle holder according to claim 2 **characterised in that** in the centre of said regular polygon there is a perforation (1.13) 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
10
11. Multiple bottle holder according to claim 8 **characterised in that** it is 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. 15
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12. Multiple bottle holder according to claim 9 **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. 25
30
13. Multiple bottle holder according to claim 12 **characterised in that** it is provided, running from this entrance (1.8.1) with a weakening line (1.7). 35
14. Multiple bottle holder according to claim 4 **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. 40
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15. Multiple bottle holder according to claim 1 **characterised in that** the regular polygon is a hexagon. 50
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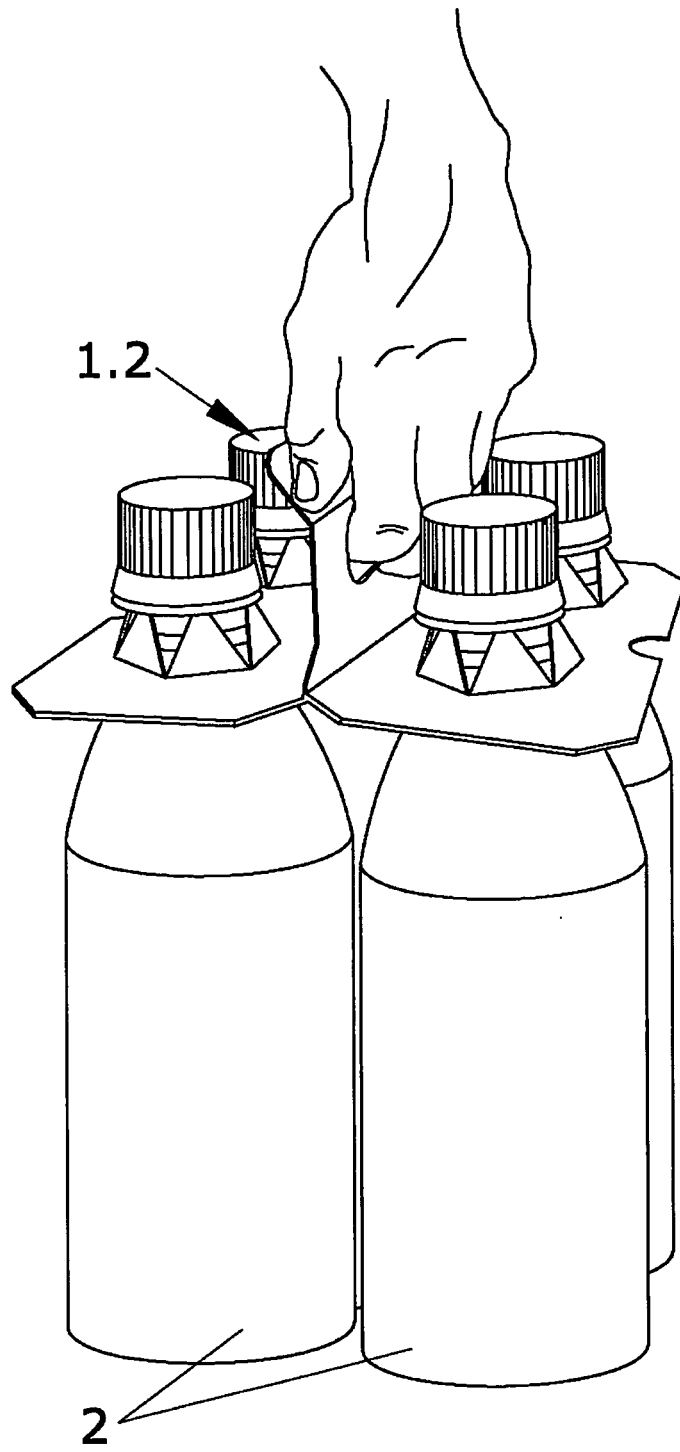


FIG.2

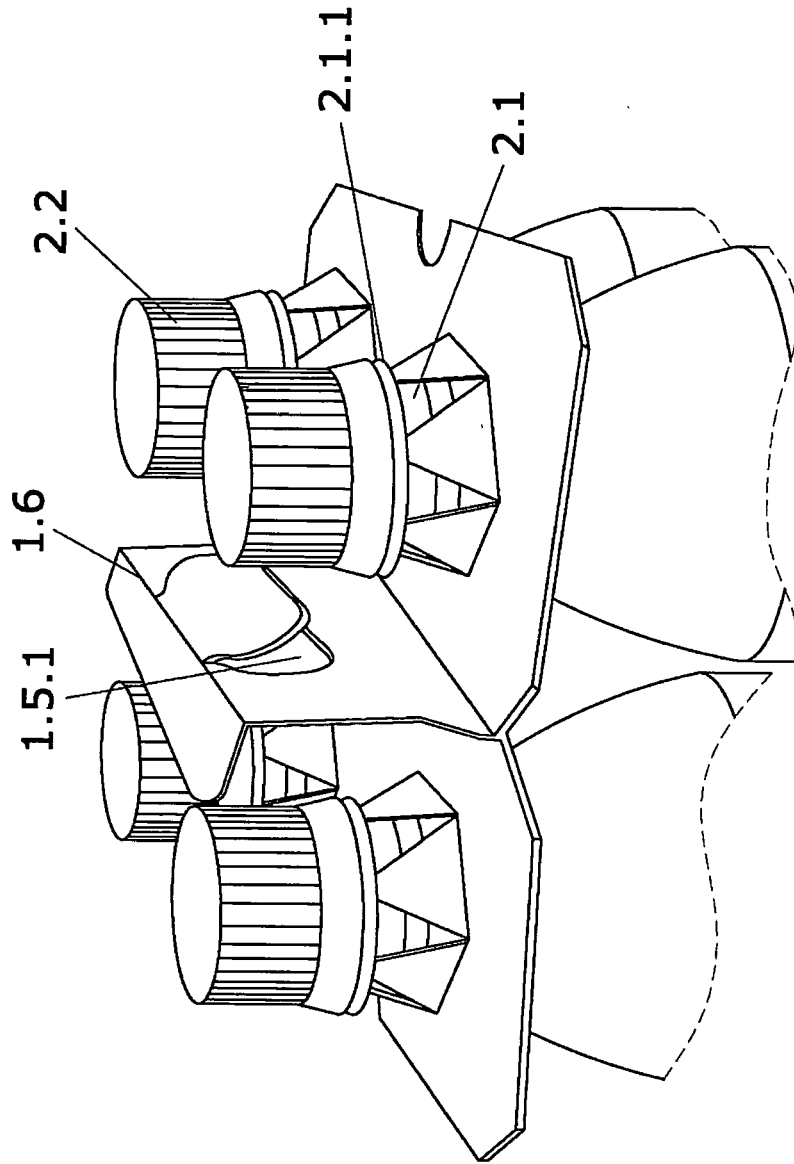


FIG.3



EUROPEAN SEARCH REPORT

Application Number
EP 09 38 2142

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	FR 2 684 079 A (SMITH LTD DAVID S [GB]) 28 May 1993 (1993-05-28) * page 7, line 25 - line 34 * * page 10, line 10 - line 21; figures 3,12 *	1-10, 12-15	INV. B65D71/44
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Place of search The Hague		Date of completion of the search 18 January 2010	Examiner Fournier, Jacques
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	

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

EP 09 38 2142

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