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(54) **COOLER TANK**

(57) A container (1) comprising a bottom (4) with a neck (2) equipped with a closure or a dispenser for dispensing liquid when installed on a cooler (6), the container (1) being made of a two-layered material in the form of a closed package (3) with a smooth surface, provided with a handle (5). The container (1) is further provided with an external housing (7) in the form of a rectangular box opened at the top and at the bottom and with transparent walls (8) and legs for allowing installation of the container (1) on a cooler (6) where the liquid is dispensed.

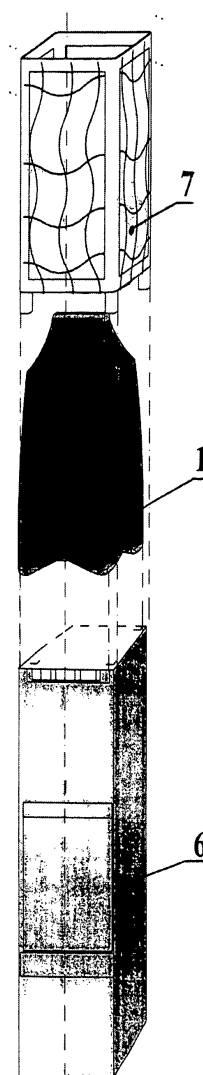


Fig. 6

Description

[0001] This utility model is classified as a container for storage and transportation of liquid, namely the cooler containers, and also may be used for advertising.

[0002] During the last decades, the supply of drinking water to the population has been a very urgent task. Therefore, the issue of filling the vessels and containers with water, water transportation and distribution from vessels and containers requires technical solutions.

[0003] There is a known container for the fluid product patent UA №82470 C2 МПК (2006)B65D 1/02/, in particular for a drink, better for mineral water, which consists essentially of a housing (1) sized d1 in the largest cross-section and at least one bottleneck (2) with internal diameter d2, configured to be closed by means of a closure and (or) dispensing tool (3) for the said fluid product contained in the container. The wall or walls (4) or the container housing (i) are made of flexible plastic, which can deform subject to maintenance of a constant surface area, particularly under the weight of fluid product contained in the said container, in the housing when the wall or walls (4) come into collision with the supporting or rest surface, resulting in at least place of collision at least one part (5) of the wall becomes non-flat, and the ratio between d2 and d1 is between 1:3 to 1:2.

[0004] Due to appropriate flexibility of its geometric form, the proposed container can also be relatively easily adapted to the configuration of the respective place reserved for storage, unlike solid fluid container, which is currently available and requires fitting within very specific dimensional parameters in order to provide for the ability to store the same, subject to allocation of a rather limited space for this purpose, for example, in the refrigerator's interior. Besides, the place gradually freed as the proposed vessel is emptied, made according to this invention, may also be re-used for storage of any other item, the size and shape of which can be very different, which is impossible in the housing of use of solid receptacles in which the volume of fluid removed from them is systematically compensated by intake of the relevant amounts of air. However, this container cannot be used for installation on the cooler, because there is no corresponding rib and when deforming, it will slip off the cooler.

[0005] The widely known bottles of 19 liters are designed for use with the cooler. They are made of plastic with several collars designed to exclude the friction between adjacent bottles during transportation and flattened circular surface formed in the middle of the bottle housing designed to contain the paper labels (Internet, <http://water.unimag.ru>).

[0006] The closest structural solution by essence and purpose is the cooler container or pumps/patent RU No. 52384 U1 МПК (2006)B65D 1/02, G09F 23/00/, containing the neck, shoulders, body and bottom, while the body is made with circular grooves evenly distributed by height and ridges having an outer cylindrical surface and forming ribs; the bottle is provided with a cover, which is the

carrier of mainly advertising information and is connected with external cylindrical surfaces of circular grooves.

[0007] This container has a little weight and low material consumption, but takes up much space during transportation and storage, since its shape is non-transformable, and it is not strong enough. There was set a task of improving the cooler container or pump to enhance the durability subject to its performance in the form and from the material suitable for transportation and storage, as well as prolongation of the fluid storage in the container.

[0008] The problem is solved by the fact the cooler containing container has a bottleneck configured to be closed by means of a closure and (or) dispensing tool and the housing has a round bottom. The bottleneck is installed into the bottom; the housing surface is smooth, without collars, the body is made of two-layered material in the form of a closed package with bottom and handle on top, which allows accommodate the cooler on the surface. It is also equipped with a housing in the form of a rectangular parallelepiped open on the top and at the bottom, with transparent walls, equipped with legs, configured to accommodate the cooler on the surface and maintain the container installed on the cooler due to the total area of contact between the outer surface of the container and inner surface of the housing.

[0009] Preferably, the two-layer container housing material should consist of the outer layer of polyethylene or polycarbonate, and the internal layer of foil.

[0010] Preferably, the container should be made with an advertising space on its surface.

[0011] The container production in the form of a package allows the compact stacking of containers during transportation and storage.

[0012] The production from the two-layer material provides the required strength characteristics during transportation, use and storage, as well as the container resilience.

[0013] The production of the inner layer of the foil provides for health requirements for sufficiently long fluid storage.

[0014] Availability of the handle provides for easy carrying and installation of the container on the cooler.

[0015] The housing provides for container stability on the cooler, prevents its slipping down when using and serves to advertise.

[0016] The essence of the utility model is explained by drawings, which do not limit the patent effect.

Fig. 1 General view of the container.

Fig. 2 Front view of the container.

Fig. 3 Side view of the container.

Fig. 4 General view of the housing.

Fig. 5 General view of the container, equipped with housing.

Fig. 6 Container installation onto the cooler and its fitting with housing. Where:

1. - cooler container;
2. - bottleneck;
3. - body;
4. - bottom;
5. - handle;
6. - cooler;
7. - housing;
8. - advertising space on the housing surface.

[0017] The cooler container 1 (Fig. 1-6) contains a bottleneck 2, configured to be closed by means of a closure and (or) dispenser; the housing 3 has a round bottom 4.

[0018] Housing 3 is made of a two-layer material in the form of a closed package with a built-in bottom 4 with bottleneck 2 and a handle on top 5, allowing to accommodate the container on the cooler surface 6. The container is also equipped with housing 7 in the form of a rectangular parallelepiped with an open top and bottom, equipped with legs configured to place the container on the cooler surface and maintain the container installed on the cooler due to the total area of contact between the outer surface of the container and inner surface of the housing.

[0019] The housing is made with an advertising space 8 on the housing surface.

[0020] Container 1 shall be used as follows. It is filled with water through the bottleneck 2 and transported to the consumer with housing 7. If required, the advertisement shall be placed in area 8 of container 1. There, holding container 1 with handle 5, it is brought to the cooler 6. It is installed thereat bottom 4 down, while the bottleneck 2 is opened and the water can flow to the consumer. Housing 7 is fitted, supporting the body 3. Using the water, the container 1 is emptied gradually. After use, the empty container 1 is removed with handle 5, having removed the housing 7.

[0021] Shchupak Energy Trans began to produce the containers for cooler for 10-20-28 liters and the corresponding carrying housings. Their dimensions are 600x280x280 respectively etc. The containers are filled with drinking or mineral water. The housings are made of transparent plastic with reinforcing ribs. Typically, the batch of 30 cooler containers is supplied with 10-15 housings.

[0022] Thus, the improvement of the cooler container enhanced its durability; its performance in a package form from a two-layer material provides for convenience for transportation and ensures a long enough fluid storage; its use with the housing provides for stability, prevents the container slipping from the cooler, and the container can also be used for advertising.

characterized by the fact that

the bottleneck is installed into the bottom, the case surface is smooth, without collars, the body is made of a two-layered material in the form of a closed package with built-in bottom and handle on the top, allowing to accommodate the container on the cooler surface, additionally equipped with a housing in the form of a rectangular box opened on the top and in the bottom with transparent walls, fitted with legs, allowing to accommodate the container on the cooler surface and maintain the same on the cooler due to the total area of contact between the outer surface of the container and inner surface of the housing.

2. Container 1, **characterized by the fact that** the two-layer shell material of the container consists of the outer layer made of polyethylene or polycarbonate, and internal layer made of foil.
3. Container 1, **characterized by the fact that** it is made with advertising space on the surface.

Claims

1. The cooler container with a bottleneck is configured to be closed by means of a closure and (or) dispenser. The housing has a round bottom,

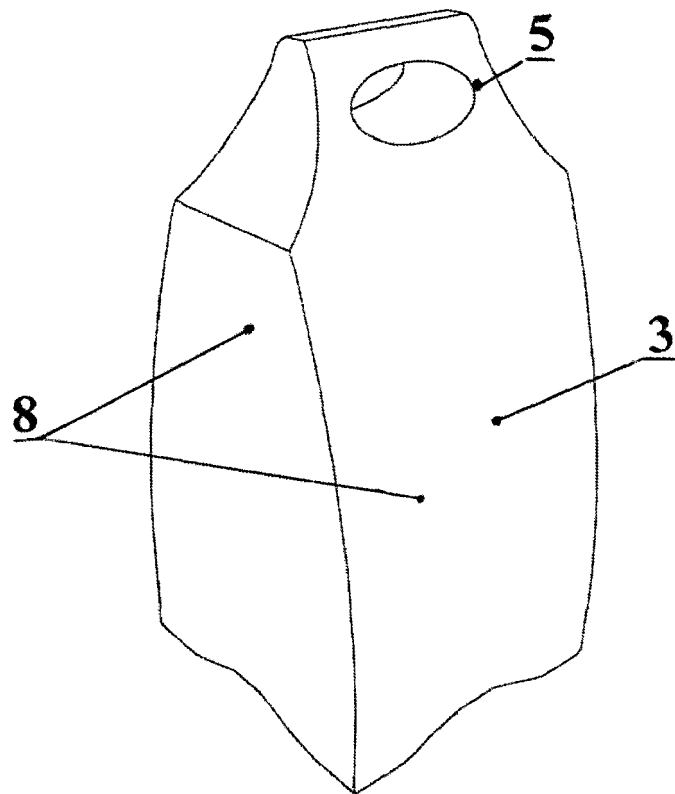


Fig. 1

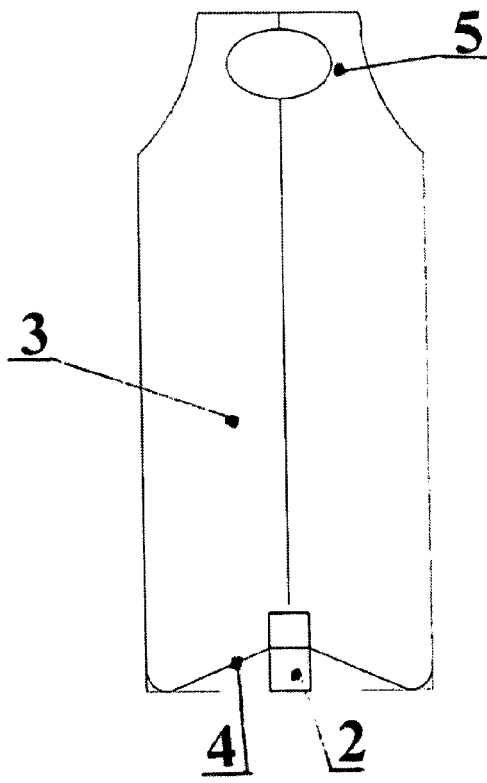


Fig. 2

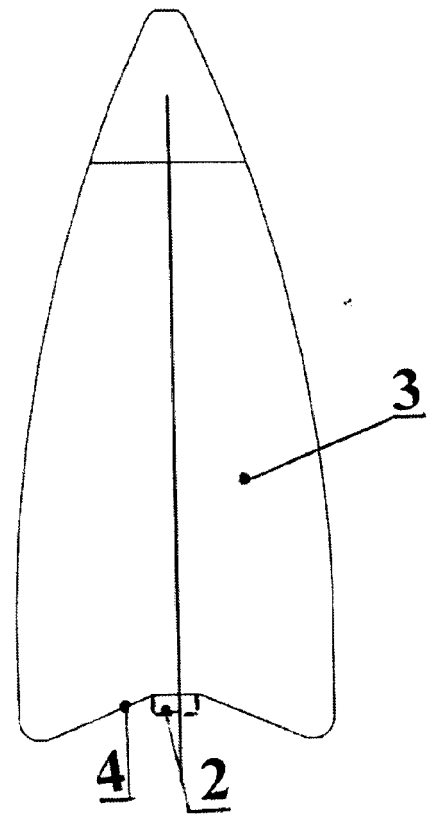


Fig. 3

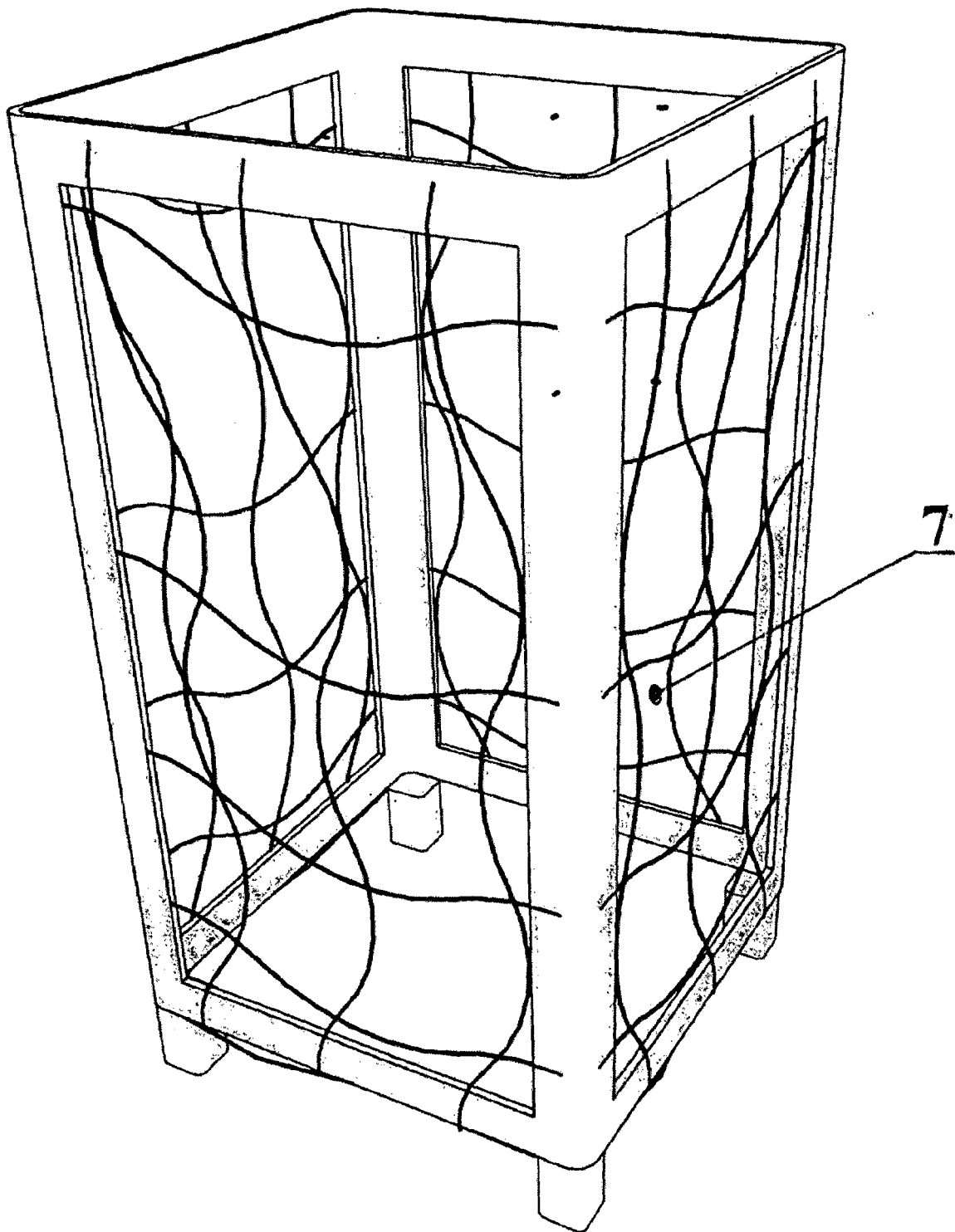


Fig. 4

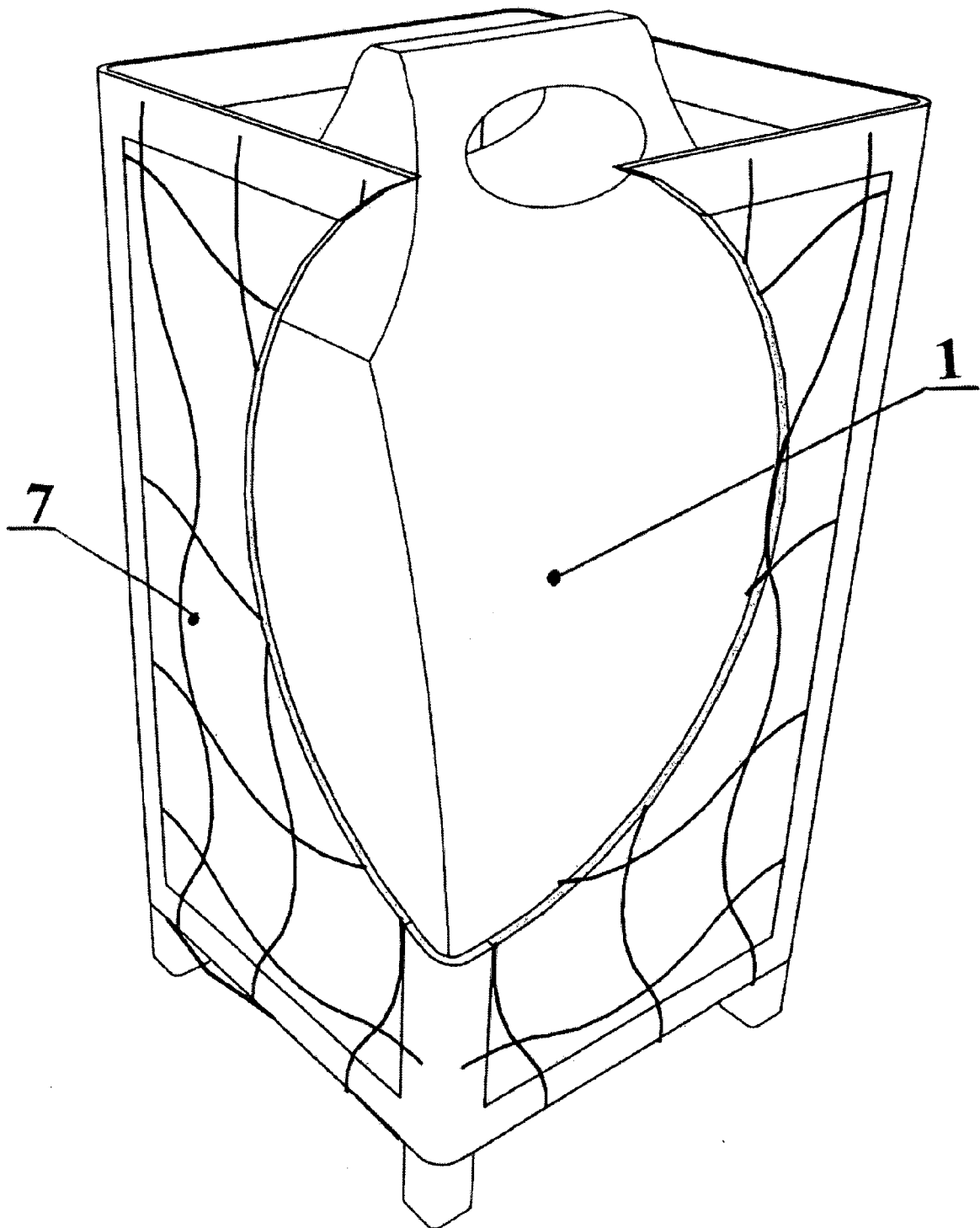


Fig. 5

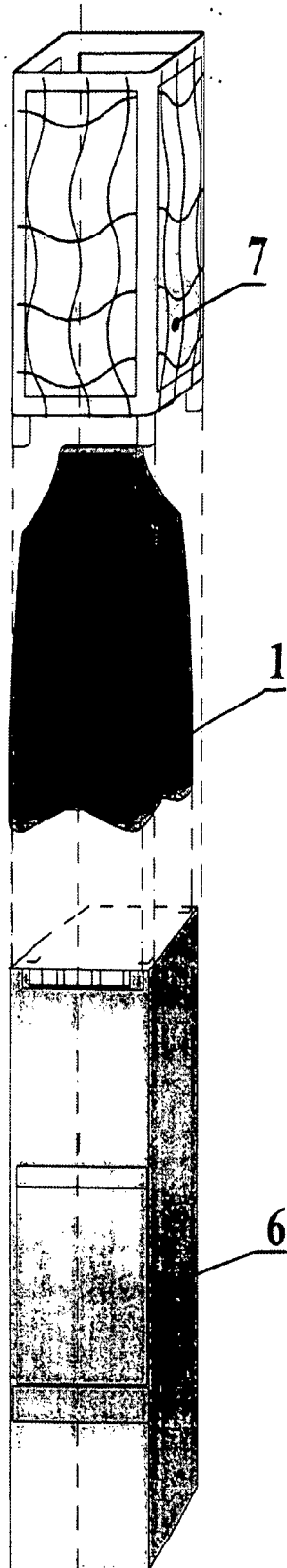


Fig. 6



EUROPEAN SEARCH REPORT

Application Number
EP 15 47 4003

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2008/277417 A1 (GROESBECK R CLAY [US]) 13 November 2008 (2008-11-13) * paragraphs [0005], [0037], [0056], [0060], [0061]; figures 1,7,8,15 *	1-3	INV. B65D1/02 B67D3/00 F25D31/00
X	EP 1 645 523 A2 (COSMO LIFE KK [JP]) 12 April 2006 (2006-04-12) * paragraphs [0005], [0019], [0024], [0027]; figures *	1-3	
X	EP 2 415 705 A1 (COSMO LIFE KK [JP]) 8 February 2012 (2012-02-08) * paragraph [0017]; claim 1; figures *	1-3	
A	WO 2004/074163 A1 (RUBBERMAID COMMERCIAL PRODUCTS [US]; MARKET JASON A [US]; PAGAN-DEMIRT) 2 September 2004 (2004-09-02) * the whole document *	1-3	
			TECHNICAL FIELDS SEARCHED (IPC)
			B65D B67D F25D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 22 February 2016	Examiner Vigilante, Marco
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EPO FORM 1503 03.02 (P04C01)

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- UA 82470 C2 [0003]
- RU 52384 U1 [0006]