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(54) **Stackable plastic bottle**

(57) This invention is an ergonomic and plastic telescopic bottle (1), and consists of the bottle body (4), the lock housing (5) situated on the lower part of the bottle

body (4), the bottle cover (3) situated on the upper part of the bottle body (4), and the bottle locking part (2).

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Description**Field of the Invention:**

[0001] This invention relates to the ergonomic and plastic telescopic bottles obtained as a result of the improvement carried out on the plastic bottles that are used in the beverages sector.

Known Status of Technique:

[0002] Today, bottles produced from plastics and/or derivatives hereof, and whose outer appearance form shows difference are used for fizzy/fizzless drinks, water and all similar drinks. Together with the liquid drink they contain, these plastic bottles occupy a space according to their external form of the bottle. Since the bottles used today have a form structure rising as a protrusion of especially cover parts of the bottles when raising from the body of the bottle, a considerable lost of space is caused both when storing them in markets and similar selling and storing places, and when transporting them. Furthermore, it is not possible to put them one on top of the other on the shelves in markets and similar places without using a supporting piece or a similar part. Today, considering especially increasing fuel costs and shelf rents in markets and similar places, the places occupied by the bottles during both shipment and supply leave a blank because of the natural forms of the bottles. And this means transport or supply place, which is lost unnecessarily. In addition, use of unnecessarily extra space in refrigerator is caused by the use of these bottles in also household and similar places because of this situation of the bottles being used today. The bottles being used today occupy too much space unnecessarily in multiple usages both during transport and logistics, and also during supply and storage by the end-consumer.

[0003] The present invention prevents excessive occupation of place caused in the use of multiple bottles both during transport and logistics, and during supply and storage by the end-consumer today and in addition, makes sure safely putting the plastic bottles one on top of the other thanks to the developed locking system it has. In the developed plastic bottles that are ergonomic and telescopic, symmetry of the upper cover form of the plastic bottle is applied to the lower body of the bottle. Thus, the plastic bottles can be laid one on top of the other during shipping and logistics and during supply and storage by the end-consumer. Again, by means of the locking part situated immediately below the cover part of the bottle developed on the products subject matter of the invention, a bottle is aligned and locked with the lock housing situated below the bottle to be placed on it, thus the bottles can be laid in two, three, or even more rows on top of one another. The bottles can hold the same liquid beverage, and also bottles that hold different liquid beverages can be put on top of the other, thus forming a different mozaic of supply. In this situation, a good ap-

pearance can be established especially during selling. The developed product subject matter of the invention offers an advantage of ergonomic usage also by its features indicated above. The developed ergonomic and plastic telescopic bottle is composed of plastics and petrol derivatives.

Description of the Drawings:

[0004] Hereinafter, the invention is described in more detail only by means of sampling with reference to attached drawings; in these drawings;

- | | |
|-----------|--|
| Drawing 1 | Perspective view of the ergonomic and plastic telescopic bottle |
| Drawing 2 | Side cut-away view of the ergonomic and plastic telescopic bottle |
| Drawing 3 | Top view of the ergonomic and plastic telescopic bottle |
| Drawing 4 | View from the lower surface of the ergonomic and plastic telescopic bottle |
| Drawing 5 | Twosome cut-away view of the ergonomic and plastic telescopic bottle |
| Drawing 6 | Threesome cut-away view of the ergonomic and plastic telescopic bottle |

[0005] The drawings that help the understanding of the invention are numbered as indicated in attached drawing, and given below together with their names.

Description of the references:**[0006]**

1. The ergonomic and plastic telescopic bottle
2. The bottle locking part
3. The bottle cover
4. The bottle body
5. The bottle lock housing

Description of the Invention:

[0007] This invention is an ergonomic and plastic telescopic bottle (1), and consists of the bottle body (4), the lock housing (5) situated on the lower part of the bottle body (4), the bottle cover (3) situated on the upper part of the bottle body (4), and the bottle locking part (2). The developed ergonomic and plastic telescopic bottle (1) can be placed one on top of the other by means of the bottle lock housing (5) situated on the lower part of the bottle body (4) and the bottle locking part (2) situated on the upper part of the bottle body (4). Upon placing, the bottle locking part (2) is fixed and locked by rotating it in the lock housing (5). In this way, the developed ergonomic and plastic telescopic bottle, subject matter of two or more inventions, can be put safely one on top of the other and unnecessary occupation of place is avoided as compared to the plastic bottles being used today both during

transport and logistics, and also during supply and storage by the end-consumer. In addition, it provides an advantage of ergonomic usage together with the advantages mentioned above thanks to the developed structure of plastic bottle (1) that is ergonomic and telescopic. The ergonomic and plastic telescopic bottles (1) subject matter of the invention can hold either the same or different beverages in them. In this way, arrangement of one on top of the other of the ergonomic and plastic telescopic bottles (1) subject matter of the invention, holding liquids with various contents in storage and supply of the products in especially markets and similar selling points creates a good mosaic of products thanks to locking part (2) and the bottle lock housing (5) that make sure safety. The ergonomic and plastic telescopic bottle, subject matter of the invention, is composed of plastics and petrol derivatives.

Claims

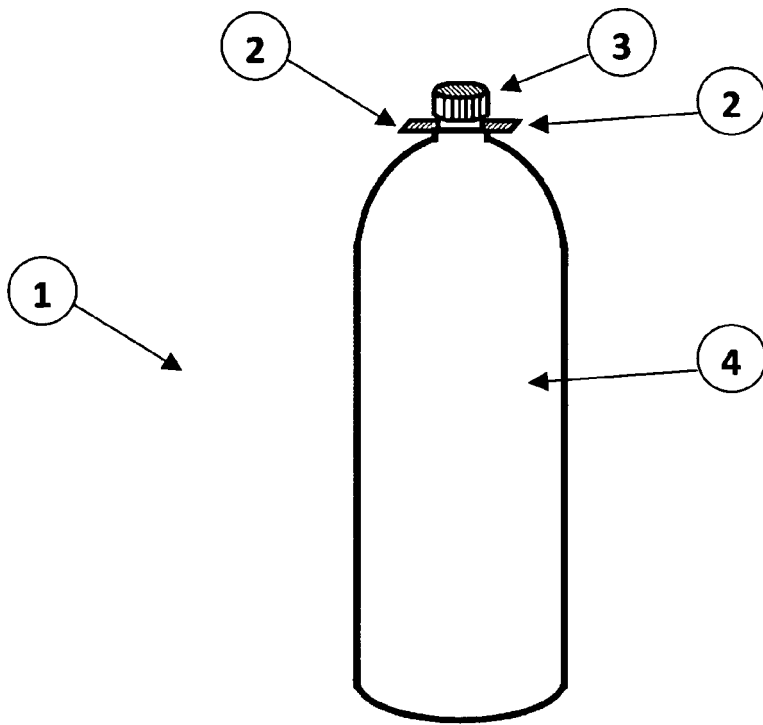
1. This invention is an ergonomic and plastic telescopic bottle (1), **characterized in that** it consists of the bottle body (4), the lock housing (5) situated on the lower part of the bottle body (4), the bottle cover (3) situated on the upper part of the bottle body (4), and the bottle locking part (2).
2. The locking part (2) according to claim 1, **characterized in that** the said locking part (2) is fixed by placing it into the bottle lock housing (5) situated on the lower part of the bottle body (4).
3. The plastic bottle (1) that is ergonomic and telescopic according to claim 1, **characterized in that** said plastic bottle (1) is composed of plastics and petrol derivatives.

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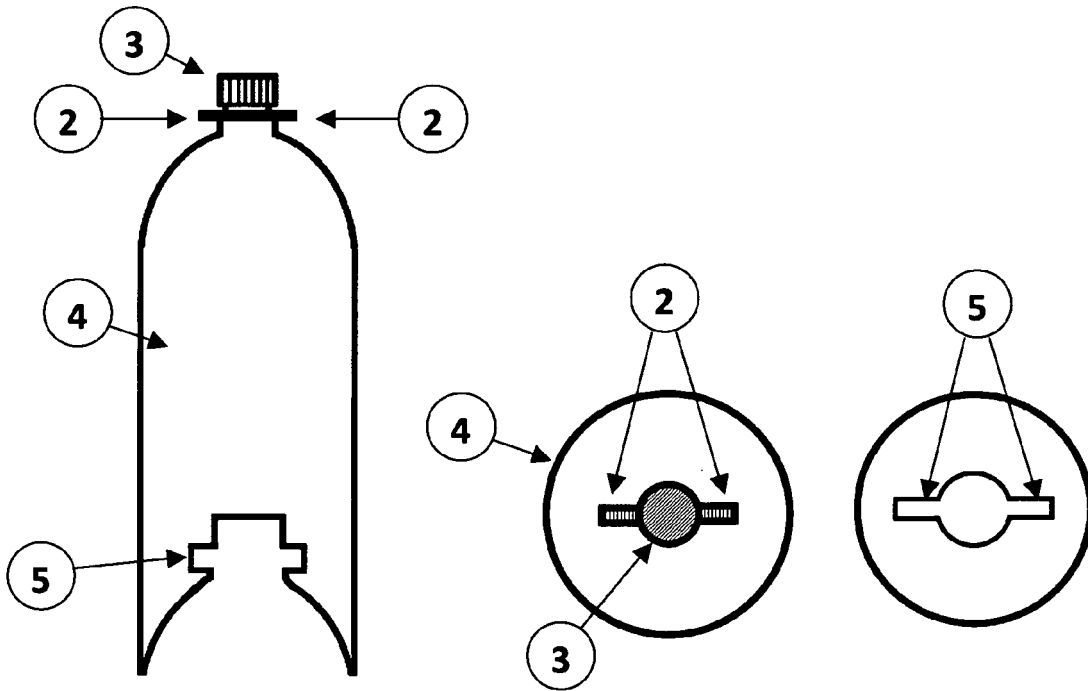
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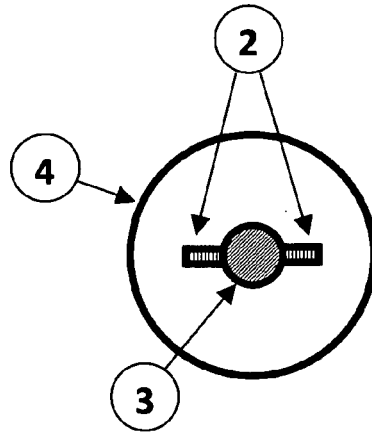
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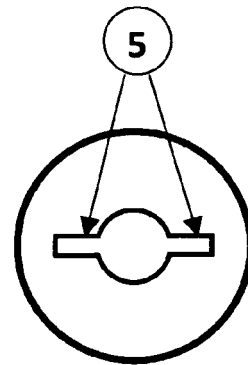
Drawing -1



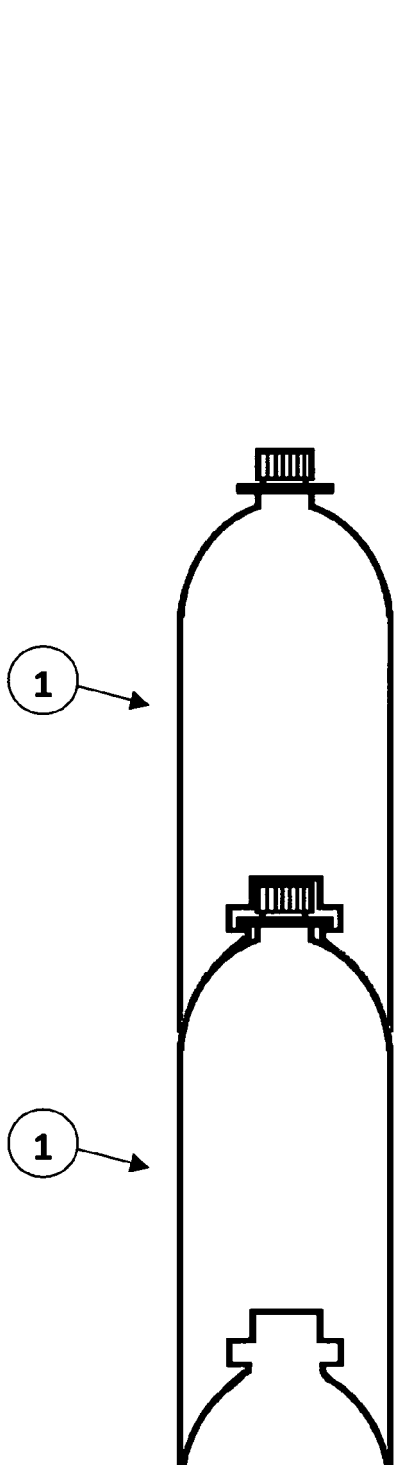
Drawing -2



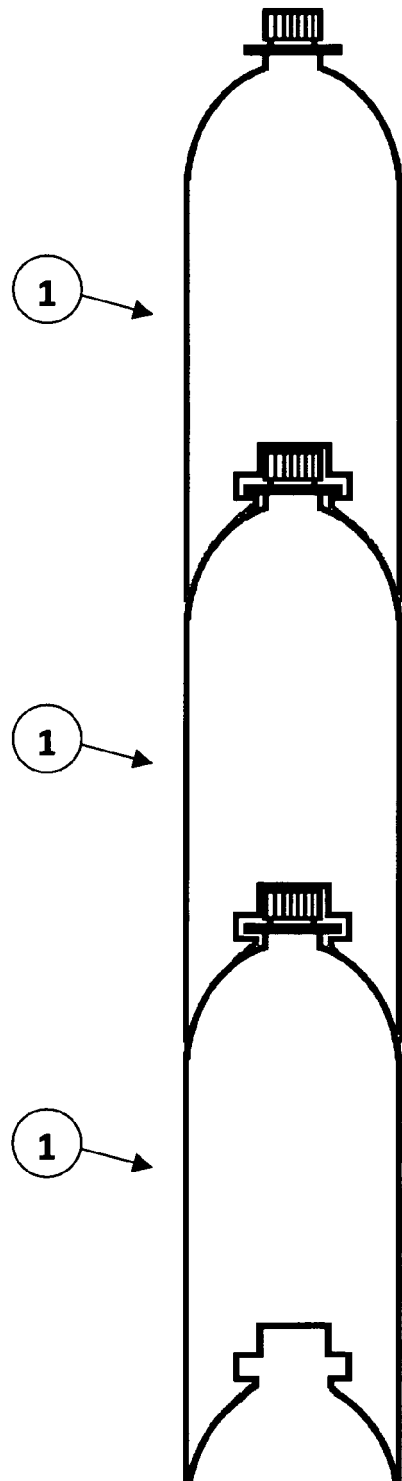
Drawing -3



Drawing -4



Drawing -5



Drawing -6



EUROPEAN SEARCH REPORT

Application Number
EP 11 00 8355

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	EP 1 321 370 A1 (PICI ALESSANDRO [IT]) 25 June 2003 (2003-06-25) * paragraph [0020] * * paragraph [0027]; figure 2 * -----	1-3	INV. B65D21/02
			TECHNICAL FIELDS SEARCHED (IPC)
			B65D
1 The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 6 February 2012	Examiner Bridault, Alain
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 11 00 8355

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

06-02-2012

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1321370	A1	25-06-2003	AT	346797 T	15-12-2006
			EP	1321370 A1	25-06-2003

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82