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(71) Applicant: **Doble Reyes, S.L.**
07813 Puig D'en Valls, Islas Baleares (ES)

(72) Inventor: **Fernández Pérez, Miguel**
07813 Puig D'en Valls, Islas Baleares (ES)

(74) Representative: **Galán Vélez, Reyes**
C/Colon 22, 6c
46004 Valencia (ES)

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(54) **DEMIJOHN HOLDER**

(57) The demijohn holder allows a demijohn to be handled: hold it, tilt it or be safely
It can be easily removed for the replacement of the demijohn or the cleaning of the whole. The container is removable and recoverable; it has a flange assembly with an opening according to the neck of the demijohn which holds the demijohn to the demijohn holder. Intended for the container manufacturing and water distribution sector.

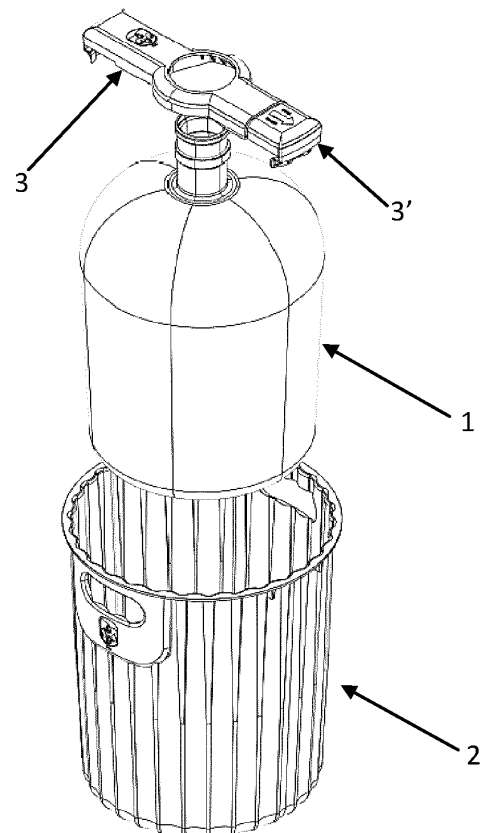


FIG.1

Description

Background

[0001] The state of the art includes documents that refer mainly to the use of different containers made firstly with natural materials such as wicker or hemp, these containers facilitated and facilitate the handling of glass demijohn, which due to their blowing process for their manufacture did not have handles, especially the large ones, these containers later changed to plastics, although in both materials cleaning was complicated or clearly impeded. On the other hand, the bottles were not designed to be turned, for which different proposals arose, such as the document with publication number ES0137321 U (01.09.0968) of the applicant Juan José Lázaro Garzón, which describes a frame with a collar that retains a bottle by means of springs and allows it to turn, similar to other documents such as the utility model with publication number 1122605 of the applicant Giacchetta, Michelino.

[0002] After the great market penetration of plastic demijohn in the past decades, which are provided with handles, the use of glass is growing again due to its good properties: there is no migration of the material towards the content and they present good recyclability; it is necessary a simple, recoverable and safe container that allows the handling of the demijohn.

[0003] The applicant does not know of any technical solutions which solve the above problem as advantageously as the recommended invention.

Object

[0004] To provide simple means to manipulate a demijohn, hold it, tilt it or turn it upside down. To facilitate the use of demijohn and especially glass demijohn in the so-called water fountains, having a removable and retrievable container.

Description of the invention

[0005] The demijohn holder object of this invention comprises of a container made of plastic material with cylindrical shape and open upper face destined to contain a demijohn in its interior, presents in its curved face of at least two openings that conform its handles, of a plurality of ribs and of a perimetral overhang that emerges towards the outside in the edge that defines its upper face.

[0006] It also includes a flange assembly to fix and retain the demijohn in the container, this flange assembly is formed by two elements that have a prismatic pair with each other in such a way that the length of the assembly can be varied for fixing or releasing the demijohn, one of the elements of the flange assembly has a through opening according to the neck of the demijohn and both have at their free or distal ends of a geometry that allows fixing to the container and also prevent a relative rotation between them, so these ends have a housing or geometry

complementary to the perimeter overhang of the container and a geometry complementary to the ribs of the container whose locking prevents rotation.

[0007] The movement of the flange assembly is restricted by the cooperation of a tension spring located between the two elements in such a way that, after the elongation of the assembly, the energy accumulated in the spring tends to bring them closer together, versions are provided in which a rigid connection is used between the two elements by means of a screw connection, not shown.

[0008] Versions are provided in which the container has a sight glass for checking the level of the contents of the demijohn by means of at least one through opening in the curved face of the container.

Description of the drawings

[0009] For a better understanding of what is described in the present report, some drawings are provided in which, by way of example, a list of the figures of the proposed invention is shown.

Figure 1 shows an exploded isometric view showing the container (2), the demijohn (1) and the flange assembly (3 and 3').

Figure 2 shows the demijohn inserted into the container and the flange assembly in place.

Figure 3 shows an isometric view of the flange assembly. Figure 4 shows detail "A" of the previous figure, showing the geometry of both ends of the flange assembly: geometry complementary to the ribs of the container (4) and geometry complementary to the overhang (4') of the container.

Figure 5 shows a bottom view of the flange assembly and the spring (5) connecting (3) and (3').

Figures 6 and 7 depict the flange assembly extended and retracted respectively.

Figure 8, top view: flange assembly in place, showing the perimeter overhang (6) of the vessel.

Figure 9 shows an isometric view in which the assembly is inverted, the handle (8), the ribs (7) of the vessel and a sight glass (9) for the water level can be seen.

Description of a preferred embodiment

[0010] A preferred embodiment is given by way of example, the materials used in its manufacture, as well as the methods of application and all the accessory details that may arise, provided that they do not affect its essential nature, being independent of the subject matter of

the invention.

[0011] The demijohn holder of this preferred embodiment comprises a cylindrical container (1) with an open upper face, which holds a demijohn, has handles (8) and on it there is an element for securing the assembly which we refer to as the flange assembly (3) and (3') figures 1, 2 and 9. For the secure fixing of the flange assembly, the container has a plurality of ribs (7) located on the curved face of the container, it also has an outer perimeter overhang located near its open face, in a complementary way these geometries cooperate with those that the flange assembly has at its free ends, on one side a geometry complementary to the overhang (4') and on the other side a geometry complementary to the ribs (4) figures 3 and 4; in such a way that the first one prevents a movement in the vertical axis of the assembly and the other one with its locking or interference prevents the rotation.

[0012] The flange assembly has a relative translation movement because it has between (3) and (3') a prismatic pair, both elements are connected with a traction spring (5), the flange assembly has a through opening significantly larger than the diameter of the neck of the demijohn.

[0013] For the sake of clarity, a brief description of its operation is given below: once the demijohn is inserted into the container, the flange assembly is placed on both through the opening for the neck, first the flange assembly is tractioned elongating this, placing a first end coinciding with the eaves of the container with its complementary geometry as well as the ribs and their complementary geometry (4), then stop traction with what the spring will approach (3) and (3') checking in the same way that the other end receives the eaves and ribs. As described above, this will retain the assembly both in the vertical direction (of the axis defining the revolution of the demijohn) as well as prevent the relative rotation between the vessel and the flange assembly.

[0014] In this version a conventional tightening joint is used by means of the screw thread pair to ensure the rigidity of the flange assembly once installed (not shown), as well as a sight glass (9) formed by at least one through opening in the curved face of the container.

another geometry (4) complementary to the ribs, the flange assembly presents a through opening sensibly bigger than the neck of the Demijohn.

- 5 2. Demijohn holder according to the first claim, **characterized by** stiffening the flange assembly (3) and (3') by means of conventional means such as tightening a screw-threaded joint.
- 10 3. Demijohn holder according to the first claim, **characterized in that** the container has a sight glass (9) formed by at least one through opening located on the curved face of the container.

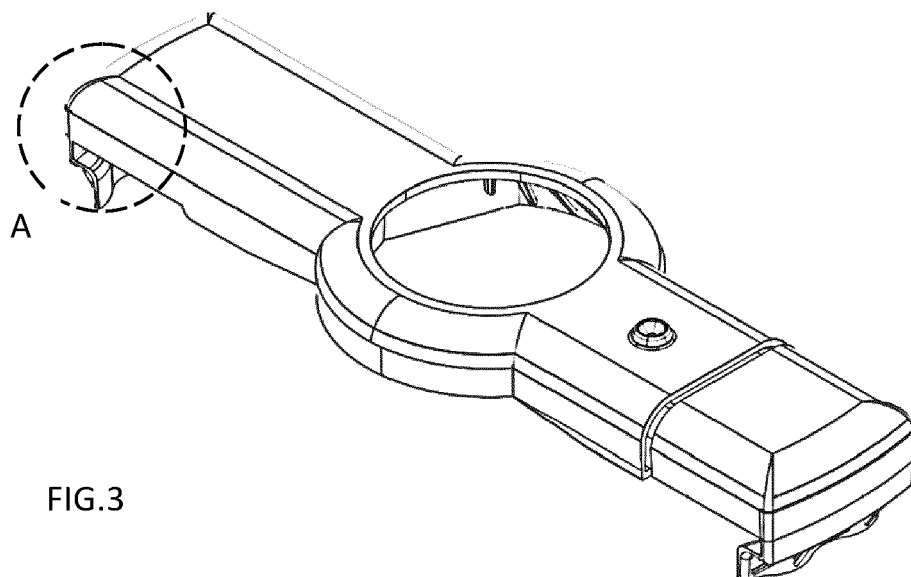
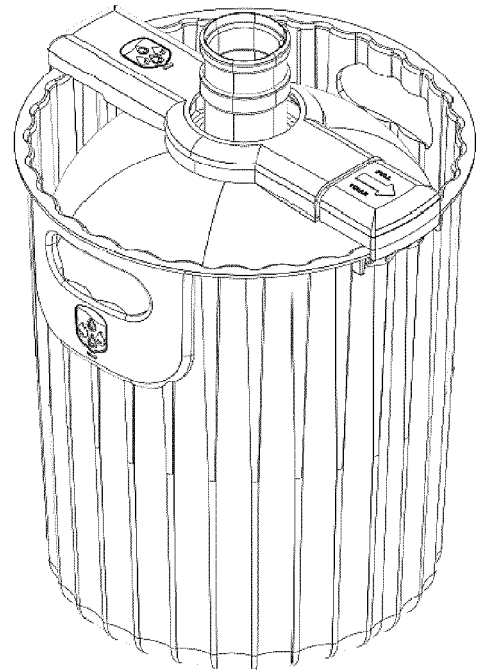
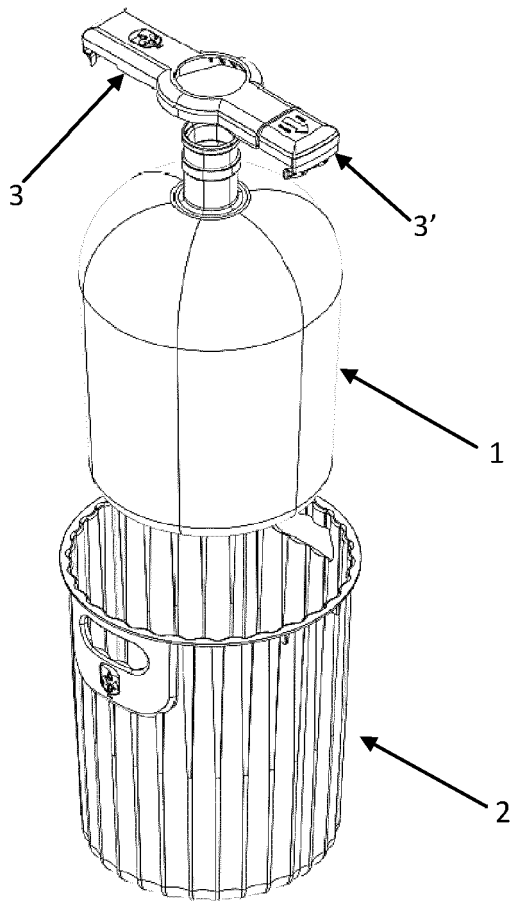
Claims

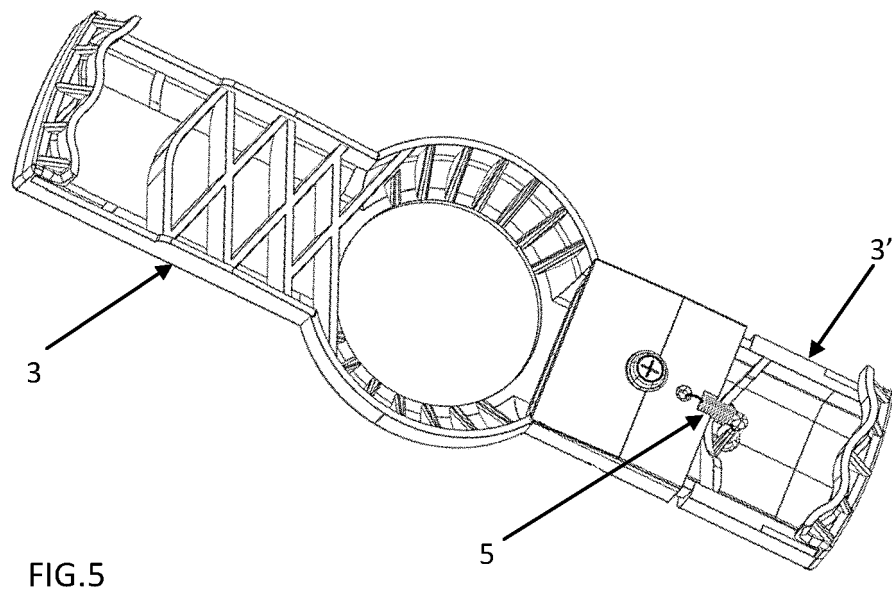
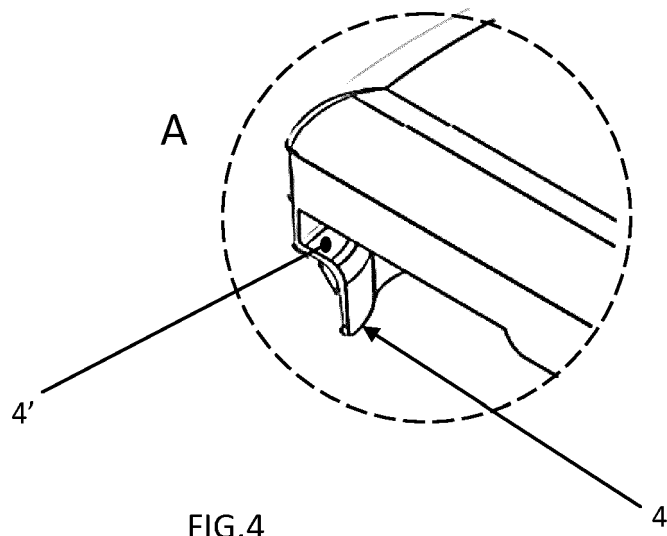
1. Demijohn holder **characterized by** having a cylindrical container (2) with an open top face according to the geometry of the Demijohn (1), having on its curved face at least two openings that form its handles (8), a plurality of ribs (7) and an external perimeter overhang (6) next to the edge that defines its open face; means to retain the demijohn to the container by means of the cooperation of a flange assembly (3) and (3') which present between them a prismatic pair varying its length, of a spring (3) of traction between both, its free or distal ends present a geometry (4') complementary to the overhang and

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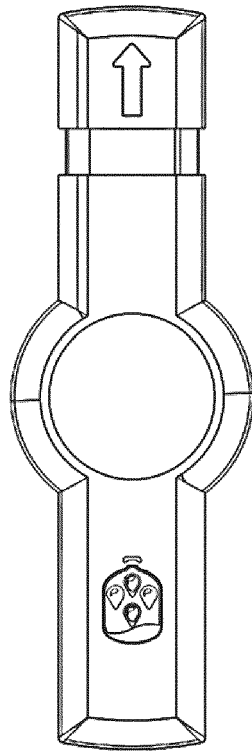


FIG. 6

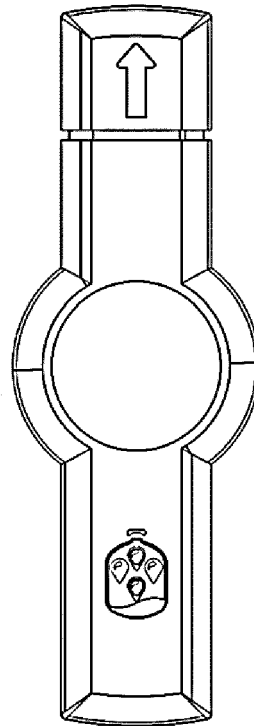


FIG. 7

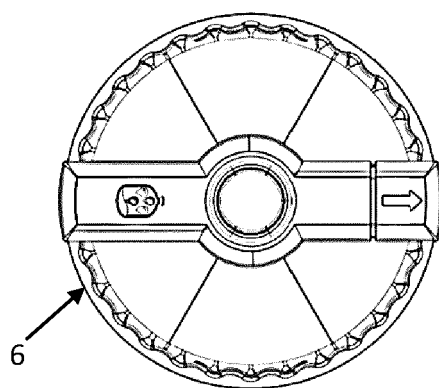


FIG. 8

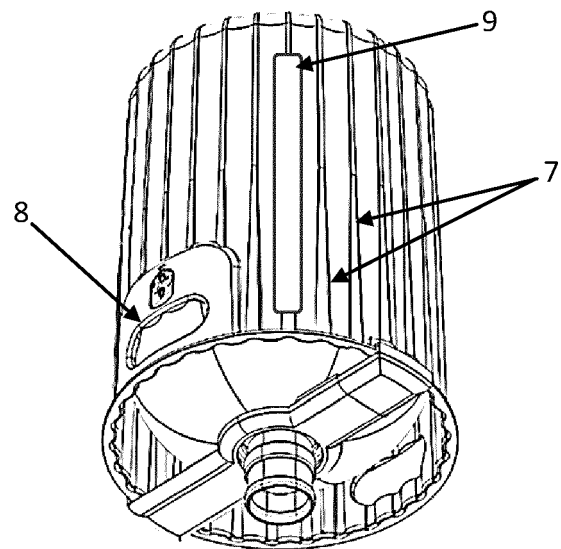


FIG. 9



EUROPEAN SEARCH REPORT

Application Number

EP 23 02 0311

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EPO FORM 1503 03.82 (P04C01)

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	FR 421 471 A (OTTO DOMNICK [DE]) 23 February 1911 (1911-02-23) * figure 1 *	1-3	INV. B65D85/30
A	FR 1 000 130 A (BELLISSARD MARIUS) 8 February 1952 (1952-02-08) * figures 1,2 *	1-3	
A	WO 91/18810 A1 (ROBBINS EDWARD S III [US]) 12 December 1991 (1991-12-12) * figures 1-3 *	1-3	
A	DE 174 489 C (SCHMALENBACH) 24 September 1905 (1905-09-24) * figures 1-3 *	1-3	
			TECHNICAL FIELDS SEARCHED (IPC)
			B65D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 24 October 2023	Examiner Tempels, Marco
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 23 02 0311

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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24-10-2023

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EPO FORM P0459

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

REFERENCES CITED IN THE DESCRIPTION

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- ES 0137321 U, Juan José Lázaro Garzón **[0001]**
- ES 1122605, Giacchetta, Michelino **[0001]**