(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 4 285 792 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:
19.03.2025 Bulletin 2025/12

(21) Application number: **23174636.3**

(22) Date of filing: **22.05.2023**

(51) International Patent Classification (IPC):
A47G 23/02 *(2006.01)*

(52) Cooperative Patent Classification (CPC):
A47G 23/0208; A47G 23/0225

(54) **ADJUSTABLE SUPPORT FOR GLASSES AND CANS**

VERSTELLBARE STÜTZE FÜR GLÄSER UND DOSEN

SUPPORT RÉGLABLE POUR VERRES ET CANNETTES

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: **30.05.2022 IT 202200011372**

(43) Date of publication of application:
06.12.2023 Bulletin 2023/49

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Description

Field of technology

[0001] The invention refers to an innovative, light and adjustable support that can support a plurality of containers of liquids of various sizes and types, through the use of a plurality of devices that can be adjusted in length and width.

[0002] The innovative support can be easily coupled to any vertical axis.

Prior art

[0003] Glasses and cans are the containers most used for distributing and consuming drinks and liquid foods of various kinds.

[0004] The consumption of drinks in large groups of people is often organised in settings and establishments outside the home, causing a multitude of inconveniences, including that of keeping the same glasses from the beginning of the evening to the end.

[0005] In fact, in numerous events, just a few minutes after the first consumption, the glass's owner often finds him or herself to be separated from said glass, leaving it in a hidden position in order to be able to find it again later. In the meantime, however, in most cases, service staff have already begun clearing and the guests continue to scatter fresh glasses around the establishment. This effect causes certain loss of one's own glass which, if it is not found in the same position it was left in, is abandoned.

[0006] Abandoning the glass or any other drink container causes excessive waste of resources, both in the case of disposable glasses and in the case of ones made of glass.

[0007] In fact, if disposable liquid containers are being used, after the old container is lost, a new one is commonly chosen, thereby increasing the event's overall consumption and waste.

[0008] If glass or ceramic containers and glasses are used, after the old glass is lost, the guest tends to look for a new one, using a total of more than 3-4 glasses in an evening.

[0009] This intensive consumption certainly impacts the energy consumption dedicated to washing each glass that is used.

[0010] Since, in the current state of the art, there is yet to be a system to facilitate keeping the same glass at a well-attended party (at the disco or in other highly frequented outside environments), the aforementioned problems are still impossible to solve. An additional aspect to consider relates to outdoor excursions commonly held in parks, on beaches, and in forests. In these circumstances, in addition to the number of attendees, the presence of external atmospheric agents like the wind must be taken into account.

[0011] In fact, the wind can often overturn the fellow attendees' glasses, resulting in said glasses becoming unusable and losing recognisability.

[0012] To solve this problem, in the current state of the art a glass collection system must be implemented that can keep the glasses intact while maintaining them further recognisable one from the other, in order to prevent switches that in their turn lead to wasting resources and energy.

[0013] The invention described in patent WO2015069326, published on 15 May 2015, discusses a cooperation between a rigid disc functioning as support, and a second disc, with a hole to accommodate and hold circular objects.

[0014] The cooperation of these two discs, although they may be coupled with a generic beach umbrella, has considerable disadvantages; in particular, the described system cannot be folded up because it is rigid. It can be adapted neither to all supports nor to all glass diameters.

[0015] The purpose of the patent, then, is to reveal an innovative support, adjustable, light, and easy to install, that can engage with any vertical axis, supporting the weight of several glasses or liquid containers of differing sizes.

[0016] An adjustable support for glasses and cans is known from CN 106 963 215 which discloses an adjustable support for glasses which can support the weight of a plurality of containers of potable liquids, exploiting engagement with any vertical axis present in the vicinity; said adjustable support being further suitable for being quickly disassembled from any vertical axis, resulting in easy disassembly and facilitating transport and handling from one location to another; said adjustable support comprising:

- at least a coupling clip, having a "C" shape, suitable for engaging with any vertical axis, thereby providing sufficient grip to support the entire adjustable support; said coupling clip comprising a rigid horizontal extension, suitable for facilitating installation of the entire adjustable support for glasses and cans, externally to said vertical axis;
- at least a central pivot, suitable to engage within said rigid horizontal extension included in said coupling clip; said central pivot being suitable to accommodate a ring;
- a ring suitable for being stacked on said central pivot, by means of a hole provided in the contour of said rings; said ring consequently being suitable for rotating around said central pivot, ensuring the support of several glasses and cans;
- at least a disc, installed below said central pivot, suitable for constituting the base necessary to provide support for said central pivot on any surface, in the event that the constraint provided by the coupling clip is not sufficient.

Description of the invention

[0017] According to this invention, which is defined by

the features of claim 1, an adjustable support for glasses and cans is made that effectively solves the problems stated above.

[0018] The adjustable support described in this patent application is advantageously versatile, keeping the glasses and drink containers separate and orderly, in any environment where there is a generic vertical axis. This vertical axis can be any branch or rod of a beach umbrella providing minimum and sufficient balance for said adjustable support.

[0019] The adjustable support that is the object of the inventions is further suited to supporting glasses and containers of different sizes, thus becoming indispensable in multiple situations.

[0020] In order to provide sufficient grip to support the entire adjustable support, a coupling clip, having a "C" shape, is suitable for engaging with any vertical axis; said coupling clip also comprises a rigid horizontal extension, suitable for facilitating installation of the entire adjustable support for glasses and cans, externally to any vertical axis.

[0021] Said "C" shaped coupling clip advantageously facilitates the installation and disinstallation of the adjustable support without having to pull out the vertical axis which, as in the case of beach umbrellas, has no free end.

[0022] Installed below said coupling clip is a vertical dorsal reinforcement that extends at least 5 centimetres along the vertical axis, suitable to confer rigidity to the whole support limiting its vertical oscillations; said dorsal reinforcement being further suitable to increase the adherence of the whole support to the vertical axis.

[0023] Said vertical dorsal reinforcement, in one of its forms of development, comprises an elastic band or a Velcro strip in order to more easily and efficiently anchor the support's position on any vertical axis.

[0024] A coating is installed internally to said coupling clip, for the purpose of increasing the clip's adherence on said vertical axis, limiting any downward sliding by the whole adjustable support installed on said coupling clip.

[0025] A central pivot having a tapered conical shape in which the thin upper tip is turned upward, is suitable to engage within said rigid horizontal extension, included in said coupling clip; said central pivot also being suitable to accommodate a plurality of rings, each suitable to contain a different liquid container.

[0026] Said central pivot, in one of its forms of development, comprises a telescopic structure suitable to vary its length, consequently modifying the quantity of rings to be stacked, adapting to the needs of the users.

[0027] By way of example but not limitation, said central pivot comprises below at least two openable winglets, suitable for providing sufficient support for glasses and cans in the absence of a stable support surface.

[0028] The rings are suitable for being stacked on the upper tip of said central pivot, by means of a hole provided in the contour of said rings; each ring consequently being suitable for rotating around said central pivot, ensuring the support of several glasses and cans at the same time.

[0029] Two semi-circles constrained to each other by means of a threaded joint, by way of example but not limitation, are suitable for adjusting the diameter of each ring, allowing glasses and containers of different sizes to be inserted.

[0030] In one of its forms of development, within each ring there is included an electrical resistance suitable for releasing an amount of heat sufficient to heat the liquids inside the supported containers.

[0031] For the purpose of supporting a single container of higher mass, by way of example but not limitation, said rings are further suitable for working together, in a complementary manner, for holding the same container, following a suitable alignment by means of said central pivot (13).

[0032] Each ring also comprises a LED light, suitable to facilitate the recognition of the glasses assigned to specific persons, according to the choice of a colour previously established. Each guest, then, after having deposited his or her glass inside the chosen ring, may select a LED colour that he or she can easily remember.

[0033] A closing cap is suitable for being engaged on said upper tip of the central pivot, once all the necessary rings have been stacked, for the purpose of closing the central pivot, preventing it from sliding downwards.

[0034] By way of example but not limitation, the constraint that anchors the position of said cap is a thread, preventing the opening thereof with a consequent downward sliding of said central pivot.

[0035] A disc is installed below said central pivot, suitable for constituting the base necessary to provide support for said central pivot on any surface, in the event that the constraint provided by the coupling clip is not sufficient.

[0036] An opening rod, one end of which is linked to the lower edge of said vertical dorsal reinforcement by means of a generic hinge, is suitable to be disposed parallel to said rigid horizontal extension, in order to engage its free end with said disc, increasing the rigidity of the whole adjustable support subject of the invention.

[0037] In one of its forms of development, said adjustable support comprises a plurality of bearings, installed on said central pivot, between each ring, suitable for reducing friction between the plurality of rings stacked on said central pivot.

[0038] The benefits offered by this invention are clear in light of the description set out thus far, and will be even more clear thanks to the annexed figure and to the detailed description.

Description of the figures

[0039] The invention will be described hereunder in at least one preferred form of development by way of explanation and not limitation, with the aid of the annexed figure, in which:

FIGURE 1 shows a perspective view from below of the adjustable support described in this patent application.

[0040] As the figure shows, the entire support is anchored to a generic vertical axis 18, by means of a coupling clip 11 having a "C" shape, in order to easily enclose axes 18 with different diameters, thereby further their installation even if said vertical axes 18 do not have a free end.

[0041] Engaged with this coupling clip 11 is a rigid horizontal extension 12, suitable for increasing the distance between said vertical axis 18 and the supported glasses and containers.

[0042] Each glass is contained inside a ring 10, which is in turn suitable for engaging with a central pivot 13.

[0043] A plurality of rings 10 are suitable for being stacked one on top of the other, after being inserted onto the upper tip 19 of said central pivot 13.

[0044] The central pivot 13 is suitable for engaging with the rigid horizontal extension 12.

[0045] A closing cap 17 is beneficially suitable for reducing the possibility of the rings coming out 10, as said cap 17 is constrained with the central pivot 13 on the upper tip 19.

[0046] Below said coupling clip 11, a dorsal reinforcement is installed 15, suitable for improving the adherence of the entire adjustable support on the vertical axis 18, thereby further increasing its stability.

[0047] Said dorsal reinforcement 15 is connected with an opening rod 16, which has a free end that is suitable for constraining a disc 14.

[0048] Said disc 14, installed below said central pivot 13, is suitable for conferring greater stability to the entire support, further functioning as a support base if the central pivot 13 is resting upon a flat, horizontal surface.

Detailed description of the invention

[0049] This invention will now be illustrated merely by way of example and not of limitation or restriction, making reference to the figure which illustrates some developments relating to this inventive concept.

[0050] FIG.1 illustrates the adjustable support for collecting and keeping separate glasses and liquid containers that are typically confused and switched during parties and picnics.

[0051] Thanks to this support, which comprises a plurality of rings 10 suitable for accommodating glasses and containers of different sizes, each holder of a given glass can deposit his or her glass knowing that he or she will find it again in the same place, without confusing it with others.

[0052] Each ring 10 is inserted onto a central pivot 13, remaining free to rotate around said pivot 13.

[0053] The central pivot 13 is constrained to a rigid horizontal extension 12, which is linked to a coupling clip 11.

[0054] Said coupling clip 11, thanks to its unique "C" shape, is suitable for engaging with any vertical axis 18, regardless of the measurement of its diameter.

[0055] A dorsal reinforcement 15 is suitable for extending at least 5 centimetres downwards, in parallel with said vertical axis 18, providing greater adherence to the coupling clip 11. Said dorsal reinforcement 15 comprises a hinge suitable to regulate the opening of an opening rod 16.

[0056] The opening rod 16, being parallel to the rigid horizontal extension 12, aims to engage with a disc 14 that constitutes the base of the whole central pivot 13. This structure is well constrained to and cohesive with the generic vertical axis 18, as it can be advantageously disassembled and transferred to different locations and settings.

[0057] A closing cap 17, installed on the upper tip of said central pivot 13, is employed to prevent said pivot 13 from sliding downwards, maintaining the stacked rings 10 in a fixed position.

[0058] It is lastly clear the invention described thus far may receive modifications, additions, or changes obvious for a technical specialist, without, for this reason, going outside the sphere of protection provided by the annexed claims.

Claims

1. Adjustable support for glasses and cans which can support the weight of a plurality of containers of potable liquids, exploiting engagement with a vertical axis (18) present in the vicinity; said adjustable support being further suitable for being quickly disassembled from said vertical axis (18),
   resulting in easy disassembly and facilitating transport and handling from one location to another; said adjustable support comprising:

   - at least a coupling clip (11), having a "C" shape, suitable for engaging with any vertical axis (18), thereby providing sufficient grip to support the entire adjustable support; said coupling clip (11) comprising a rigid horizontal extension (12), suitable for facilitating installation of the entire adjustable support for glasses and cans, externally to said vertical axis (18);
   - at least a coating, installed internally to said coupling clip (11), suitable to increase the adherence of said clip (11) on said vertical axis (18), limiting any possible downward sliding by the whole adjustable support installed on said coupling clip (11);
   - at least a vertical dorsal reinforcement (15), installed below said coupling clip (11), extending for at least 2 cm along said vertical axis (18), suitable to confer rigidity to the whole support limiting its vertical oscillations; said dorsal reinforcement (15) being further suitable to increase the adherence of the whole support to the vertical axis (18);
   - at least a central pivot (13), having a tapered

conical shape in which the thin upper tip is turned upward, suitable to engage within said rigid horizontal extension (12) included in said coupling clip (11); said central pivot (13) being suitable to accommodate a plurality of rings (10), each suitable to contain a different liquid container;

- a plurality of rings (10) suitable for being stacked on the upper tip (19) of said central pivot (13), by means of a hole provided in the contour of said rings (10); each ring (10) consequently being suitable for rotating around said central pivot (13), ensuring the support of several glasses and cans at the same time;
- at least a LED light, included at the top of each ring (10), suitable to facilitate the recognition of the glasses assigned to specific persons, following the choice of a colour previously established;
- at least a closing cap (17) suitable for being engaged on said upper tip (19) of the central pivot (13), once all the necessary rings (10) have been stacked, for the purpose of closing the central pivot (13), preventing it from sliding downwards;
- at least a disc (14), installed below said central pivot (13), suitable for constituting the base necessary to provide support for said central pivot (13) on any surface, in the event that the constraint provided by the coupling clip (11) is not sufficient;
- at least an opening rod (16), one end of which is linked to the lower edge of said vertical dorsal reinforcement (15) by means of a generic hinge, suitable to be disposed parallel to said rigid horizontal extension (12), in order to engage its free end with said disc (14), increasing the rigidity of the whole adjustable support subject of the invention.

2. Adjustable support for glasses and cans, according the preceding claim 1, wherein said rings (10), suitable for holding glasses and cans, are composed of two semi-circles constrained to each other by means of a threaded joint, for the purpose of adjusting their diameter, each ring (10) being adapted to the specific size of each liquid container supported.

3. Adjustable support for glasses and cans, according to any one of the preceding claims, wherein within each ring (10) there is included an electrical resistance suitable for releasing an amount of heat sufficient to heat the liquids inside the supported containers.

4. Adjustable support for glasses and cans, according to any one of the preceding claims, wherein said rings (10), each suitable for holding a container of liquids, are further suitable for working together, in a complementary manner, for the purpose of supporting a single container of higher mass, said rings (10) being therefore suitable for holding the same container, following a suitable alignment by means of said central pivot (13).

5. Adjustable support for glasses and cans, according to any one of the preceding claims, which comprises a plurality of bearings, installed on said central pivot (13), between each ring (10), suitable for reducing friction between the plurality of rings (10) stacked on said central pivot (13).

6. Adjustable support for glasses and cans according to any one of the preceding claims, wherein said central pivot (13), suitable to host the plurality of rings (10), comprises a telescopic structure suitable to vary the length of said central pivot (13), consequently modifying the quantity of rings (10) to be stacked, adapting to the needs of the users.

7. Adjustable support for glasses and cans, according to any one of the preceding claims, wherein said central pivot (13), suitable for accommodating the plurality of rings (10), comprises below at least two openable winglets, suitable for providing sufficient support for glasses and cans in the absence of a stable support surface.

8. Adjustable support for glasses and cans according to any one of the preceding claims, wherein said vertical dorsal reinforcement (15) further comprises an elastic band suitable to bind both of its two ends to said vertical dorsal reinforcement (15) after enclosing said vertical axis (18) therein, thereby improving the adherence of the adjustable support subject of the invention.

9. Adjustable support for glasses and cans according to any one of the preceding claims, wherein said vertical dorsal reinforcement (15) further comprises a Velcro strip suitable to bind both of its two ends to said vertical dorsal reinforcement (15) after enclosing said vertical axis (18) within it, improving the adherence of the adjustable support object of the invention.

10. Adjustable support for glasses and cans, according to any one of the preceding claims, wherein said closing cap (17), suitable to be engaged on said upper tip (19) of said central pivot (13), is suitable to be constrained by means of a thread, preventing the opening thereof with a consequent downward sliding of said central pivot (13).

Patentansprüche

1. Verstellbarer Glas- und Dosenhalter, die das Gewicht zahlreicher Behälter mit trinkbaren Flüssigkeiten tragen kann, wobei die Verbindung mit einer angrenzenden vertikalen Achse (18) genutzt wird; der verstellbare Halter ist zudem dazu geeignet, schnell von der vertikalen Achse (18) abmontiert zu werden,
Dies ermöglicht eine einfache Demontage und erleichtert den Transport und die Handhabung von einem Ort zum anderen. Der verstellbare Halter umfasst:

- mindestens eine "C"-förmige Verbindungsklemme (11), die sich zum Einrasten in jede vertikale Achse (18) eignet und dadurch ausreichend Halt bietet, um den gesamten verstellbaren Halter zu tragen; wobei die Verbindungsklemme (11) eine starre horizontale Verlängerung (12) umfasst, die geeignet ist, die Montage des gesamten verstellbaren Glas- und Dosenhalters außerhalb der vertikalen Achse (18) zu erleichtern;
- mindestens eine Beschichtung, die innen an der Verbindungsklemme (11) angebracht ist und geeignet ist, die Haftung der Klemme (11) auf der vertikalen Achse (18) zu erhöhen, wodurch jedes mögliche Herunterrutschen des gesamten an der Verbindungsklemme (11) angebrachten verstellbaren Halters verhindert wird;
- mindestens eine vertikale rückseitige Verstärkung (15), die unterhalb der Verbindungsklemme (11) angebracht ist und sich mindestens 2 cm entlang der vertikalen Achse (18) erstreckt und geeignet ist, dem gesamten Halter Festigkeit zu verleihen und ihre vertikalen Erschütterungen zu begrenzen; wobei die rückseitige Verstärkung (15) zudem geeignet ist, die Haftung des gesamten Halters an der vertikalen Achse (18) zu erhöhen;
- mindestens ein zentrales Drehgelenk (13) mit einer sich verjüngenden konischen Form, bei der die dünne obere Spitze nach oben gedreht ist, und geeignet ist, in die starre horizontale Verlängerung (12) eingesetzt zu werden, die in der Verbindungsklemme (11) enthalten ist; wobei das zentrale Drehgelenk (13) geeignet ist, zahlreiche Ringe (10) aufzunehmen, von denen jeder einen anderen Flüssigkeitsbehälter aufnehmen kann;
- mehrere Ringe (10), die geeignet sind, auf der oberen Schmalseite (19) des zentralen Drehgelenks (13) mittels eines in der Kontur der Ringe (10) vorgesehenen Lochs gestapelt zu werden; jeder Ring (10) ist folglich geeignet, um das zentrale Drehgelenk (13) herum gedreht zu werden, wodurch sichergestellt wird, dass mehrere Gläser und Dosen gleichzeitig gehalten werden können;
- mindestens eine LED-Leuchte am oberen Rand jedes Rings (10), die geeignet ist, die Erkennung des Glases zu erleichtern, die bestimmten Personen zugewiesen sind, nachdem eine zuvor festgelegte Farbe gewählt wurde;
- mindestens eine Verschlusskappe (17), die auf die obere Schmalseite (19) des zentralen Drehgelenks (13) aufgesteckt werden kann, nachdem alle erforderlichen Ringe (10) gestapelt worden sind, um das zentrale Drehgelenk (13) zu verschließen und ein Herunterrutschen zu verhindern;
- mindestens eine Scheibe (14), die unterhalb des zentralen Drehgelenks (13) angebracht ist und geeignet ist, die erforderliche Basis zu bilden, um dem zentralen Drehgelenk (13) auf jeder Oberfläche Halt zu geben, falls der durch die Verbindungsklemme (11) gebotene Halt nicht ausreicht;
- mindestens eine Öffnungsstange (16), deren eines Ende mit der Unterkante der vertikalen rückseitigen Verstärkung (15) über ein allgemeines Scharnier verbunden ist, das parallel zu der starren horizontalen Verlängerung (12) angeordnet werden kann, um sein freies Ende mit der Scheibe (14) ineinanderzugreifen, wodurch die Festigkeit des gesamten verstellbaren Halters, die Gegenstand der Erfindung ist, erhöht wird.

2. Verstellbarer Glas- und Dosenhalter nach dem vorhergehenden Anspruch 1, wobei die Ringe (10), die zum Halten von Gläsern und Dosen geeignet sind, aus zwei Halbkreisen bestehen, die mittels einer Gewindeverbindung aneinander befestigt sind, um ihren Durchmesser einzustellen, wobei jeder Ring (10) an die spezifische Größe des jeweils gehaltenen Flüssigkeitsbehälters angepasst ist.

3. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei in jedem Ring (10) ein elektrischer Widerstand enthalten ist, der geeignet ist, eine ausreichende Wärmemenge freizusetzen, um die Flüssigkeiten in den gehaltenen Behältern zu erhitzen.

4. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei die Ringe (10), die jeweils zum Halten eines Behälters mit Flüssigkeiten geeignet sind, zudem dazu geeignet sind, in komplementärer Weise zusammenzuwirken, um einen einzelnen Behälter mit größerer Füllmenge zu halten, wobei die Ringe (10) daher zum Halten desselben Behälters geeignet sind, wobei sie mittels des zentralen Drehgelenks (13) einer geeigneten Ausrichtung folgen.

5. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, die zahlreiche Lager umfasst, die auf dem zentralen Drehgelenk (13) zwischen jedem Ring (10) angebracht sind und geeignet sind, die Reibung zwischen den zahlreichen auf dem zentralen Drehgelenk (13) gestapelten Ringen (10) zu verringern.

6. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei das zentrale Drehgelenk (13), das geeignet ist, die zahlreichen Ringe (10) aufzunehmen, eine Teleskopstruktur umfasst, mit der die Länge des zentralen Drehgelenks (13) geändert werden kann, wodurch die Anzahl der zu stapelnden Ringe (10) geändert und den Bedürfnissen der Benutzer angepasst werden kann.

7. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei das zentrale Drehgelenk (13), das geeignet ist, die zahlreichen Ringe (10) aufzunehmen, an der Unterseite mindestens zwei zu öffnende Flügel aufweist, die geeignet sind, bei Fehlen einer stabilen Auflagefläche ausreichend Halt für Gläser und Dosen zu bieten.

8. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei die vertikale rückseitige Verstärkung (15) zudem ein elastisches Band umfasst, das geeignet ist, seine beiden Enden an der vertikalen rückseitigen Verstärkung (15) zu befestigen, nachdem die vertikale Achse (18) darin eingeschlossen wurde, wodurch die Haftung des verstellbaren Halters entsprechend der Erfindung verbessert wird.

9. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei die vertikale rückseitige Verstärkung (15) zudem einen Klettstreifen umfasst, der dazu geeignet ist, seine beiden Enden an der vertikalen rückseitigen Verstärkung (15) zu befestigen, nachdem die vertikale Achse (18) darin eingeschlossen wurde, wodurch die Haftung des verstellbaren Halters entsprechend der Erfindung verbessert wird.

10. Verstellbarer Glas- und Dosenhalter nach einem der vorhergehenden Ansprüche, wobei die Verschlusskappe (17), die auf die obere Schmalseite (19) des zentralen Drehgelenks (13) mittels eines Gewindes aufgesteckt werden kann, wodurch ihr Öffnen und ein daraus folgendes Abwärtsgleiten des zentralen Drehgelenks (13) verhindert wird.

Revendications

1. Support réglable pour verres et canettes pouvant supporter le poids de plusieurs récipients de liquide potable, pouvant s'adapter sur un axe vertical (18) présent à proximité ; le support réglable peut en outre se retirer rapidement de l'axe vertical (18),
ce qui permet un démontage facile et facilite le transport et la manutention d'un endroit à l'autre ; le support réglable comprend :

- au moins un clip de couplage (11), en forme de « C », qui s'adapte sur tout axe vertical (18), fournissant ainsi une prise suffisante pour soutenir l'ensemble du support réglable ; le clip de couplage (11) comprend une extension horizontale rigide (12), ce qui facilite l'installation de l'ensemble du support réglable pour les verres et les canettes, à l'extérieur de l'axe vertical (18) ;
- au moins un revêtement, installé à l'intérieur du clip de couplage (11), qui permet d'augmenter l'adhérence du clip (11) sur l'axe vertical (18), en limitant tout éventuel glissement vers le bas de l'ensemble du support réglable installé sur le clip de couplage (11) ;
- au moins un renfort vertical dorsal (15), installé sous le clip de couplage (11), s'étendant sur au moins 2 cm le long de l'axe vertical (18), capable de conférer une rigidité à l'ensemble du support en limitant ses oscillations verticales ; le renfort dorsal (15) permet en outre d'augmenter l'adhérence de l'ensemble du support à l'axe vertical (18) ;
- au moins un pivot central (13), de forme conique amincie dans laquelle la fine pointe supérieure est tournée vers le haut, pouvant s'adapter à l'extension horizontale rigide (12) incluse dans le clip de couplage (11) ; le pivot central (13) peut recevoir plusieurs anneaux (10), chacun pouvant contenir un récipient de liquide différent ;
- plusieurs anneaux (10) pouvant être empilés sur la pointe supérieure (19) du pivot central (13), au moyen d'un trou prévu dans le contour des anneaux (10) ; chaque anneau (10) peut par conséquent tourner autour du pivot central (13), assurant le support de plusieurs verres et canettes en même temps ;
- au moins une lumière LED, incluse dans la partie supérieure de chaque anneau (10), facilitant la reconnaissance des verres attribués à des personnes spécifiques, par le choix d'une couleur préalablement établie ;
- au moins un capuchon de fermeture (17) se positionnant sur la pointe supérieure (19) du pivot central (13), une fois que tous les anneaux nécessaires (10) ont été empilés, dans le but de bloquer le pivot central (13), l'empêchant de glisser vers le bas ;
- au moins un disque (14), installé sous le pivot central (13), constitue la base nécessaire pour

assurer le support du pivot central (13) sur n'importe quelle surface, au cas où le blocage fourni par le clip de couplage (11) ne serait pas suffisant ;

- au moins une tige d'ouverture (16), dont une extrémité est reliée au bord inférieur du renfort vertical dorsal (15) au moyen d'une charnière générique, qui peut être disposée parallèlement à l'extension horizontale rigide (12), afin de connecter son extrémité libre avec le disque (14), augmentant la rigidité de l'ensemble du support réglable objet de l'invention.

2. Support réglable pour verres et canettes, selon la revendication précédente 1, dans lequel les anneaux (10), conçus pour recevoir des verres et des canettes, sont composés de deux demi-cercles liés l'un à l'autre au moyen d'un joint fileté, dans le but de régler leur diamètre, chaque anneau (10) étant adapté à la taille spécifique de chaque contenant de liquide supporté.

3. Support réglable pour verres et canettes, selon l'une quelconque des revendications précédentes, dans lequel chaque anneau (10) est incluse une résistance électrique qui dégage une quantité de chaleur suffisante pour chauffer les liquides à l'intérieur des récipients supportés.

4. Support réglable pour verres et canettes, selon l'une quelconque des revendications précédentes, dans lequel les anneaux (10), chacun conçus pour contenir un récipient de liquides, interagissent, de manière complémentaire, dans le but de supporter un seul récipient de masse supérieure, les anneaux (10) étant donc en mesure de contenir le même récipient, suivant un alignement adéquat au moyen du pivot central (13).

5. Support réglable pour verres et canettes, selon l'une quelconque des revendications précédentes, qui comprend plusieurs roulements, installés sur le pivot central (13), entre chaque anneau (10), réduisant la friction entre plusieurs anneaux (10) empilés sur le pivot central (13).

6. Support réglable pour verres et canettes selon l'une quelconque des revendications précédentes, dans lequel le pivot central (13), pouvant recevoir plusieurs anneaux (10), comprend une structure télescopique qui fait varier la longueur du pivot central (13), en modifiant par conséquent la quantité d'anneaux (10) à empiler, s'adaptant ainsi aux besoins des utilisateurs.

7. Support réglable pour verres et canettes, selon l'une quelconque des revendications précédentes, dans lequel le pivot central (13), pouvant recevoir plusieurs anneaux (10), comprend en dessous au moins deux ailettes ouvrables, qui fournissent un support suffisant pour les verres et les canettes en l'absence d'une surface d'appui stable.

8. Support réglable pour verres et canettes selon l'une quelconque des revendications précédentes, dans lequel le précédent renfort vertical dorsal (15) comprenant en outre une bande élastique permet de lier ses deux extrémités au renfort vertical dorsal (15) après y avoir bloqué l'axe vertical (18), ce qui améliore l'adhérence du support réglable objet de l'invention.

9. Support réglable pour verres et canettes selon l'une quelconque des revendications précédentes, dans lequel le précédent renfort vertical dorsal (15) comprenant en outre une bande Velcro permet de lier ses deux extrémités au renfort vertical dorsal (15) après y avoir inséré l'axe vertical (18), améliorant ainsi l'adhérence du support réglable objet de l'invention.

10. Support réglable pour verres et canettes, selon l'une quelconque des revendications précédentes, dans lequel le capuchon de fermeture (17), peut être placé sur la pointe supérieure (19) du pivot central (13), et être bloqué au moyen d'un filetage, empêchant l'ouverture de celui-ci par un glissement vers le bas conséquent du pivot central (13).

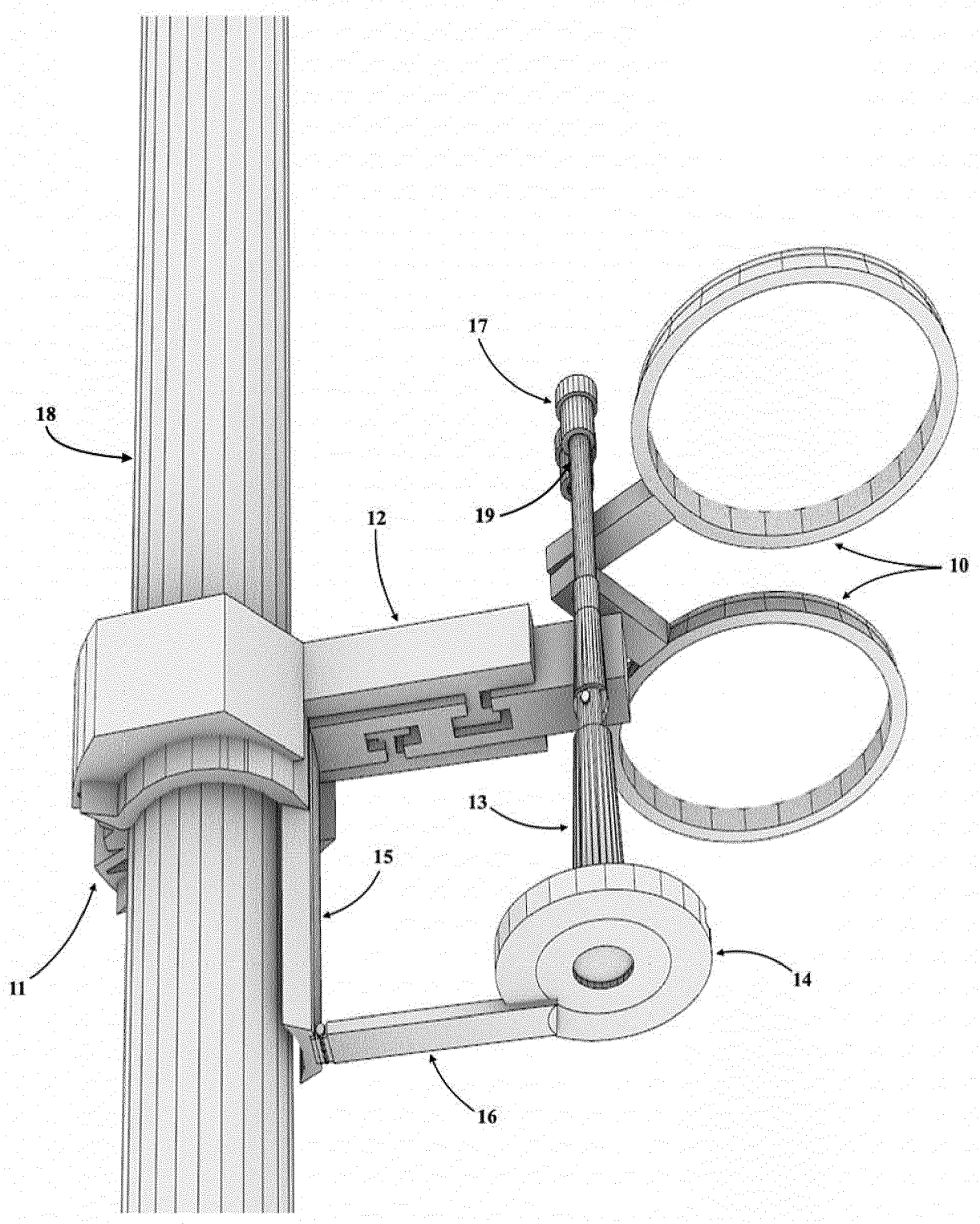

Fig.1

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- WO 2015069326 A **[0013]**
- CN 106963215 **[0016]**