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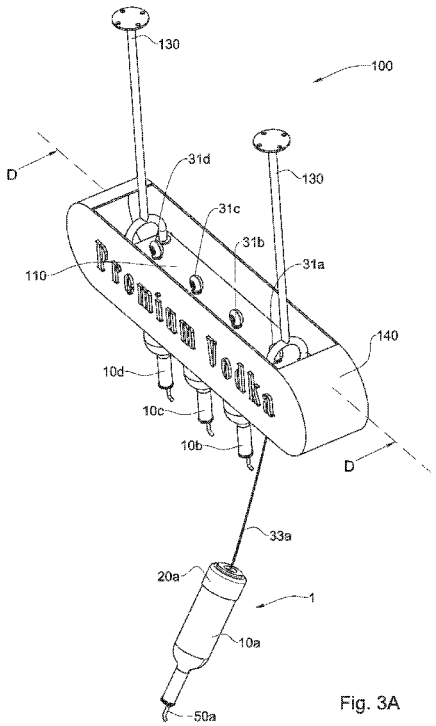


Fig. 3A

(57) Abstract: A system for holding at least one container, comprising: at least one holder configured to grip said container; and a retracting mechanism having a base portion mountable to a fixed location, and a distal end connectable to said holder; wherein said holder is displaceable by said retracting mechanism between a normally retracted position and an extended position, so that the length of said retracting mechanism is increased more at said extended position than the length at said retracted position.

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SYSTEM FOR HOLDING A CONTAINER

TECHNOLOGICAL FIELD

The presently disclosed subject matter is related to the field of systems capable of holding containers, in particular, containers for dispensing substance.

BACKGROUND

Containers such as bottles are used in many fields. One of these fields is alcoholic liquids served in a bar. In this field there are stationary bottle holders called 'bar butles' in which a plurality of bottles are disposed upside down without the ability to be retracted. In order to serve the liquid within the bottle, the user has to activate a pour spout, which thereby allows the liquid to flow from the bottle. The bottles in the 'bar butles' are non-retractable, and therefore may not be convenient for use by a bartender.

It is an object of the present invention to substantially overcome or at least ameliorate one or more disadvantages of existing arrangements.

In one aspect of the presently disclosed subject matter, there is provided a system for holding a container, comprising: a housing cover comprising a bottom member, wherein a first opening is formed in the bottom member of the housing cover; a holder configured to grip and hold said container in an upside down orientation, said holder having a holder bottom and one or more side walls extending from the holder bottom to defining a holder interior space configured for receiving a bottom portion of said container so as to grip said container in the upside down orientation; a pour spout mountable to an opening of said container, and configured to control flow of content stored in said container at least when said container is in said upside down orientation; a retracting mechanism comprising: a spring wound reel enclosure constituting a base portion and at least partially located within the housing cover, the spring wound reel enclosure having a spring wound reel therewithin; a cable wrapped on said spring wound reel, a distal end of the cable configured to extend through said first opening and being attached to said holder; wherein said holder is displaceable by the cable of said retracting mechanism between a retracted position and an extended position, so that a length of the cable of said retracting mechanism is increased more at said extended position

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than the length at said retracted position; and wherein the holder bottom is located within the first opening in the retracted position.

SUMMARY

It is an object of the present invention to substantially overcome, or at least ameliorate, one or more disadvantages of existing arrangements.

According to one aspect of the invention, there is provided a system for holding a container, comprising: a housing comprising a bottom member, wherein a first opening is formed in the bottom member of the housing; a holder configured to grip and hold said container in an upside down orientation, said holder having a holder bottom and one or more side walls extending from the holder bottom to defining a holder interior space configured for receiving a bottom portion of said container so as to grip said container in the upside down orientation; a pour spout mountable to an opening of said container, and configured to control flow of content stored in said container at least when said container is in said upside down orientation; a retracting mechanism comprising: a spring wound reel enclosure constituting a base portion and at least partially located within the housing, the spring wound reel enclosure having a spring wound reel therewithin; a cable wrapped on said spring wound reel, a distal end of the cable configured to extend through said first opening and being attached to said holder; wherein said holder is displaceable by the cable of said retracting mechanism between a retracted position and an extended position, so that a length of the cable of said retracting mechanism is increased more at said extended position than the length at said retracted position; and wherein the holder bottom is located within the first opening in the retracted position.

According to one aspect of the presently disclosed subject matter, there is provided a system for holding at least one container, comprising:

at least one holder configured to grip said container; and

a retracting mechanism having a base portion mountable to a fixed location, and a distal end connectable to said holder.

The holder is displaceable by said retracting mechanism between a normally retracted position and an extended position, so that at the extended position the length of said retracting mechanism is increased more than the length at said retracted position.

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Particularly, said holder can be spaced from the base portion to an extent greater than at said retracted position.

The term '*container*' refers hereinafter to any receptacle capable of accommodating goods, or any other substance such as liquids, and can be, for example, a bottle configured for containing various types of liquids (e.g., alcoholic liquids).

The presently disclosed subject matter can be used in various fields in which containers including liquids are used. By using the presently disclosed subject matter, the liquids can be supplied to a user upon demand in a convenient manner. These fields include, for example, a bar, or a kitchen, and the user can be, for example, a bartender or a cook. When used in a bar by a bartender, a container in the form of a bottle can be mounted to the holder above the workspace (e.g., the table of the bar) and above the sightline of the bartender. When the bartender intends to use the bottle in order to serve its liquid, he can pull the bottle by his hand towards the workspace. Once accomplishing this operation, the bottle will automatically revert to its normally retracted position. The above described structure and intended use of the presently disclosed subject matter allows for saving workspace while providing visual contact between the bartender and a client. In addition, the automatic operation of the retracting mechanism saves time, which is a very important factor during the bartender's or the cook's work.

The system can further comprise a housing constituting said fixed location, so that the base portion is mountable to said housing.

The housing can comprise a cage having at least one opening at its bottom for allowing the holder to pass therethrough between its retracted and extended positions, so that at said retracted position, at least a portion of the holder is disposed within said cage.

The housing can further comprise a stopping element configured for delimiting movement of the holder with respect to the housing when being displaced from its extended position to its retracted position. The stopping element has a stopper bottom surface configured to engage said at least one holder at its retracted position, and an opposite stopper top surface. The stopping element can constitute an upper portion of the cage, wherein the base portion of the retracting mechanism can be mounted to the stopping element.

The retracting mechanism can comprise a spring wound reel constituting said base portion and a cable wrapped thereon, having said distal end connectable to the holder. The stopping element can further comprise a passage extending between said

stopper bottom surface and said stopper top surface, so that when the spring wound reel is disposed at said stopper top surface the cable can pass through said passage.

The holder can have one or more side walls extending from a holder bottom to a perimetric holder rim, and defining together a holder interior space configured for receiving a bottom portion of said container via said holder rim, so as to grip said container at an upside down position of the container. The distal end of the retracting mechanism can be connectable to a center of said holder bottom. The above structure of the holder and, particularly, the fact that the distal end of the retracting mechanism can be connected to the center of the holder bottom allows gripping the container at an upside down position while in the normally retracted position.

The holder can further comprise a gripping mechanism configured for arresting said container to said holder. The clamping can be done by tightening mechanism which, upon activation, tightly grasps the container, for preventing its movement with respect to the holder. One or more side walls have an internal surface which can constitute the gripping mechanism by having shape and size corresponding to a shape and a size of the bottom portion of the container and by having a friction coefficient allowing frictionally introducing and engaging the bottom portion of the container so as to grip the container. The above structure of the gripping mechanism prevents the container from slipping out of the holder while it is held upside down.

The holder interior space can be configured with a first sub-space in proximity to said holder rim having a first diameter D1 and a consecutive second sub-space having a second diameter D2 which is smaller than D1. This structure of two sub-spaces allows using a single holder for holding two containers different in width.

The system can further comprise a mounting arrangement extending from the housing for mounting the housing to an external element.

The system can further comprise a pour spout mountable to an opening of said container in order to control the flow of the liquid in the container in case it is upside down.

BRIEF DESCRIPTION OF THE DRAWINGS

In order to better understand the subject matter that is disclosed herein and to exemplify how it may be carried out in practice, embodiments will now be described,

by way of non-limiting examples only, with reference to the accompanying drawings, in which:

Fig. 1 is an isometric view of a system for holding a container according to one example of the presently disclosed subject matter;

Fig. 2 is an enlarged isometric view of a holder of the system of **Fig. 1**, without a container received therein;

Fig. 3A is an upper isometric view of a system according to another example of the presently disclosed subject matter;

Fig. 3B is a bottom isometric view of the system shown in **Fig. 3A**;

Fig. 3C is an upper isometric view of the system shown in **Fig. 3A**, with its housing cover being transparent;

Fig. 3D is a cross-sectional view of the system shown in **Fig. 3A** taken along a plane D-D;

Fig. 4A is another example of a holder, in accordance with another example of the presently disclosed subject matter; and

Fig. 4B is a cross-sectional view of the holder of **Fig. 4A** taken along a plane E-E.

DETAILED DESCRIPTION OF EMBODIMENTS

Reference is now made to Figs. 1 and 2 in which a system **1** for holding a container in the form of a bottle **10** is shown, in accordance with one example of the presently disclosed subject matter.

The system **1** comprises a holder **20** configured to grip the bottle **10** at an upside down position, and a retracting mechanism **30** connected to the holder **20**. The bottle **10** contains an alcoholic beverage, and the system **1** can be used by a bartender in a bar above a workspace (not shown) and the sightline of the bartender. When the bartender is willing to use the bottle **10** in order to serve its liquid, he can pull the bottle **10** together with its holder **20** by his hand towards the workspace, and then to use the bottle. The bottle **10** is configured with a pour spout **50** mounted to an opening **12** thereof in order to control the flow of the liquid from the bottle **10** when being used by the bartender. Once accomplishing serving the liquid, the bartender can lift and release the bottle **10**,

which in turn will automatically revert to its normally retracted position by the operation of the retracting mechanism **30**, as explained below.

The holder **20** is a structure of a peripheral round side wall **21** extending from a holder bottom **22** to a perimetric holder rim **23**, and defining together a holder interior space **25**. The interior space **25** is configured for receiving a bottom portion (not shown) of the bottle **10** via the holder rim **23**, so as to grip the bottle **10** at its upside down position by a gripping mechanism **26**.

The gripping mechanism **26** is a friction based mechanism consisting of an internal surface **21a** of the side wall **21**, characterized by a high friction coefficient and is shaped and sized corresponding to the shape and the size of the bottom portion of the bottle **10**. This structure of the gripping mechanism **26** prevents the bottle **10** from slipping out of the holder **20** while gripping the bottle **10**. For example, the gripping mechanism **26** can be made of a rubber material.

The retracting mechanism **30**, shown in Fig. 1, has a base portion in the form of an enclosure **31** mountable to a fixed location (not shown), and a cable **33** extending from the housing and having a distal end **32** connected to the holder **20**. In particular, the distal end **32** is connected to a center of the holder bottom **22**. The enclosure **31** has a spring wound reel (not shown) enclosure **31** on which the cable **33** is wrapped.

The holder **20** is displaceable by the cable **33** and the spring wound reel of the retracting mechanism **30** between a normally retracted position (shown in Figs. 3A-3D with respect to three of four containers) and an extended position (shown in Fig. 1). As is clearly understood from the drawings, the length of the retracting mechanism **30** is increased at the extended position more than the length at the retracted position. In particular, at the extended position, the holder **20** is spaced from the enclosure **31** to an extent greater than at the retracted position.

In accordance with another example of the presently disclosed subject matter shown in Figs. 3A to 3D, there is provided a system **100** which includes a plurality of systems **1**. Instead of holding only one bottle by a single holder as suggested by the system **1**, the system **100** is provided with a plurality of holders **20a-d** for holding a plurality of bottles **10a-d**, respectively, while each of the holders **20a-d** is displaceable between a retracted position and an extended position.

The system **100** has a housing **110** (best seen in Fig. 3C), constituting a fixed location to which a plurality of enclosures **31a-d** are mounted.

The housing **110** comprises a rigid cage **111** (shown in Figs. 3C and 3D) and a stopping element **114** received therein and supported by the rigid cage **111**. The rigid case **111** is structured of rigid frame members and a top member **115**.

The stopping element **114** has a plurality of openings **112a-d** with interior spaces **113a-d** defined by the openings **112a-d**, for accommodating the holders **20a-d** together with the bottles **10a-d**, at their retracted position. The interior spaces **113a-d** have respective stopper bottom surfaces **114a-d** configured for delimiting movement of the holders **20a-d** when being displaced from their extended position to their retracted position. The stopping elements **114a-d** are made of a soft material, such as soft foam, which functions as a shock absorber for the holders **20a-d**, when they come in contact with the stopping element **114** and enter into their corresponding interior spaces **113a-d.**

The top member **115** has a plurality of passages **118a-d** extending between an exterior of the top member **115** and the stopper bottom surfaces **114a-d**, so that enclosures **31a-d** are disposed above the top member **115** and the cables **33a-d** pass through the passages **118a-d**.

The system **100** further comprises a mounting arrangement **130** extending from the top member **115** of the housing **110** for mounting the system **100** to an external element such as a ceiling (not shown).

The system **100** further comprises a housing cover **140** that surrounds the housing **110**. The housing cover **140** constitutes a decorative element, the exterior surface of which can be used for advertising or any other informing purposes.

Reference is now made to Figs. 4A and 4B, showing another example of a holder **220** configured with an interior space **225** having a first sub-space **225a** in proximity to a holder rim **223** and having a first diameter **D1** and a consecutive second sub-space **225b** having a second diameter **D2** which is smaller than **D1**. This structure of two sub-spaces allows using a single holder **220** for holding two types of bottles having two different diameters, i.e., of a diameter **D1**, and of a diameter **D2**.

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CLAIMS:

1. A system for holding a container, comprising:

a housing comprising a bottom member, wherein a first opening is formed in the bottom member of the housing;

a holder configured to grip and hold said container in an upside down orientation, said holder having a holder bottom and one or more side walls extending from the holder bottom to defining a holder interior space configured for receiving a bottom portion of said container so as to grip said container in the upside down orientation;

a pour spout mountable to an opening of said container, and configured to control flow of content stored in said container at least when said container is in said upside down orientation;

a retracting mechanism comprising:

a spring wound reel enclosure constituting a base portion and at least partially located within the housing, the spring wound reel enclosure having a spring wound reel therewithin;

a cable wrapped on said spring wound reel, a distal end of the cable configured to extend through said first opening and being attached to said holder; wherein said holder is displaceable by the cable of said retracting mechanism between a retracted position and an extended position, so that a length of the cable of said retracting mechanism is increased more at said extended position than the length at said retracted position; and

wherein the holder bottom is located within the first opening in the retracted position.

2. A system according to claim 1, wherein at the extended position said holder is spaced from the base portion to an extent greater than at said retracted position.

3. A system according to claim 1, wherein the housing constitutes a fixed location.

4. A system according to claim 1, wherein said stopping elements is configured for delimiting movement of the holder with respect to the housing when being displaced from the extended position to the retracted position.

5. A system according to claim 1, wherein said stopper horizontal bottom surface is planar.

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6. A system according to claim 1, wherein said distal end is attached to a center of said holder bottom.

7. A system according to claim 1, wherein said holder comprises a gripping mechanism for securing said container to said holder.

8. A system according to claim 7, wherein each of said one or more side walls has an internal surface constituting said gripping mechanism by having a shape and size configured to correspond to a shape and a size of the bottom portion of the container and by having a friction coefficient configured to grip the container in the upside down orientation.

9. A system according to claim 1, wherein said holder interior space has a first sub-space in proximity to said holder rim and having a first diameter D1 and a consecutive second sub-space having a second diameter D2 which is smaller than the first diameter D1.

10. A system according to claim 1, further comprising a mounting arrangement extending from the housing for mounting the housing to an external element.

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SPRUSON & FERGUSON

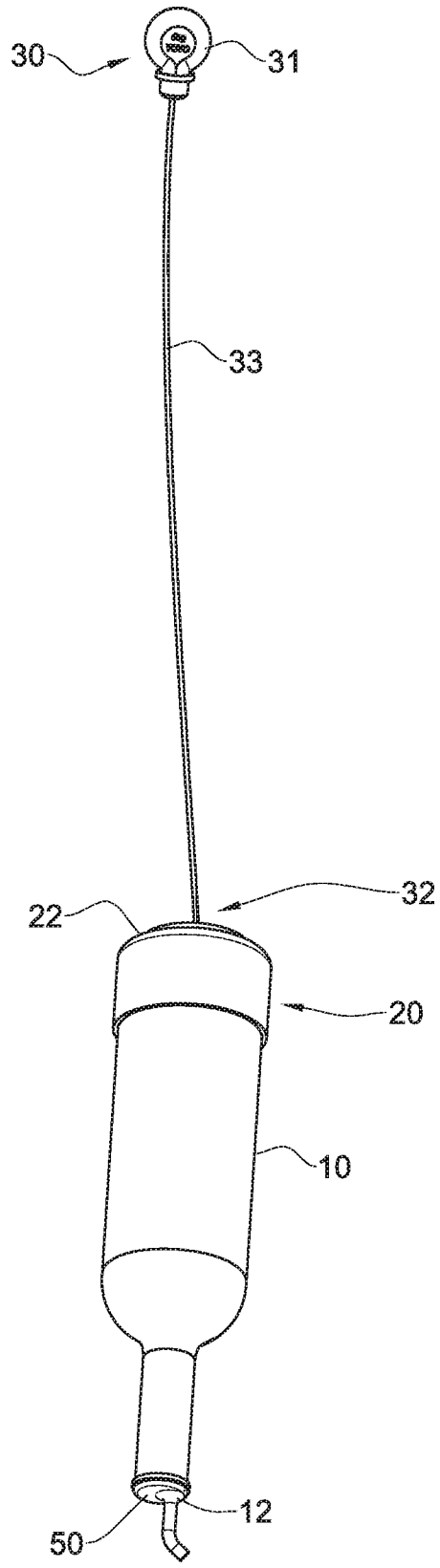


Fig. 1

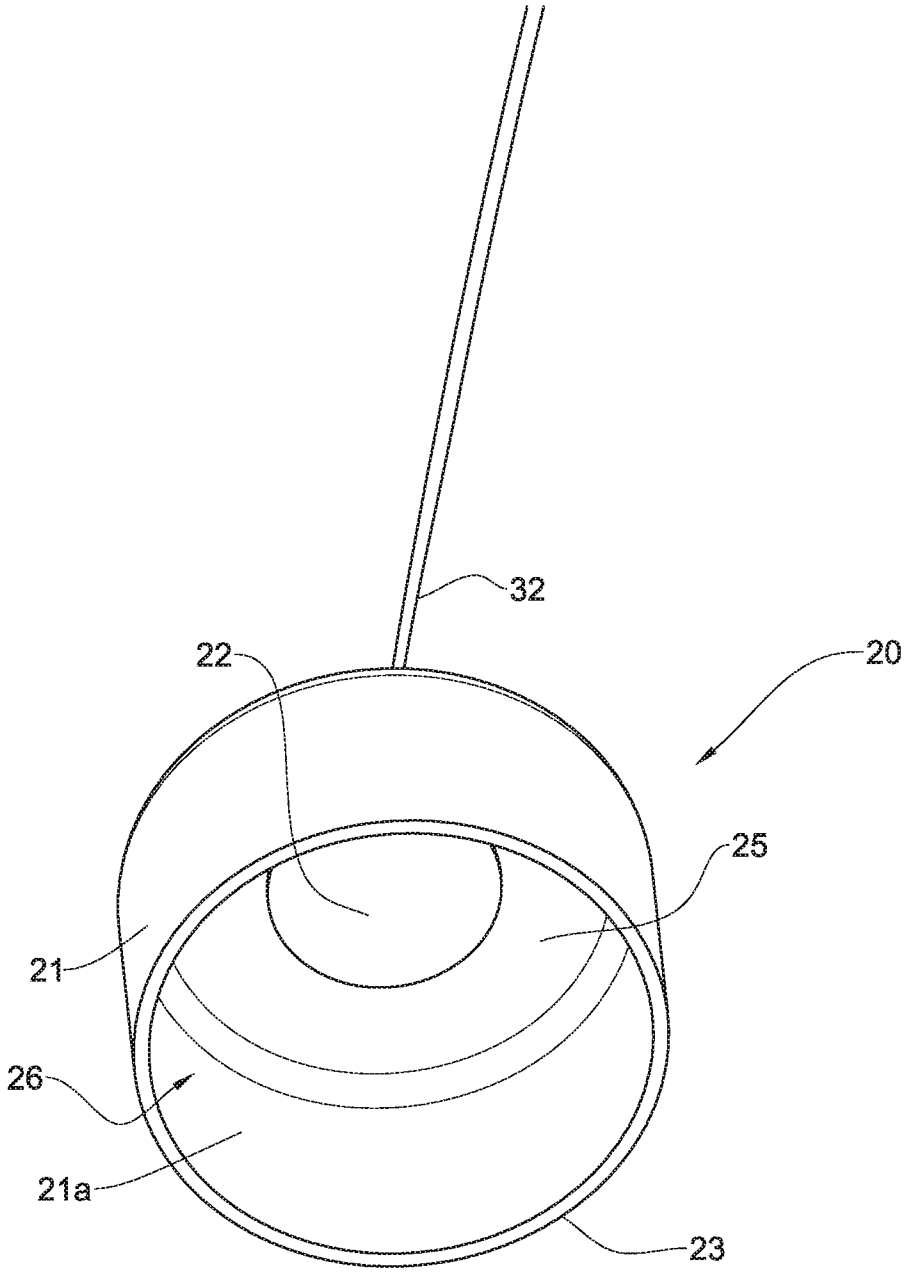


Fig. 2

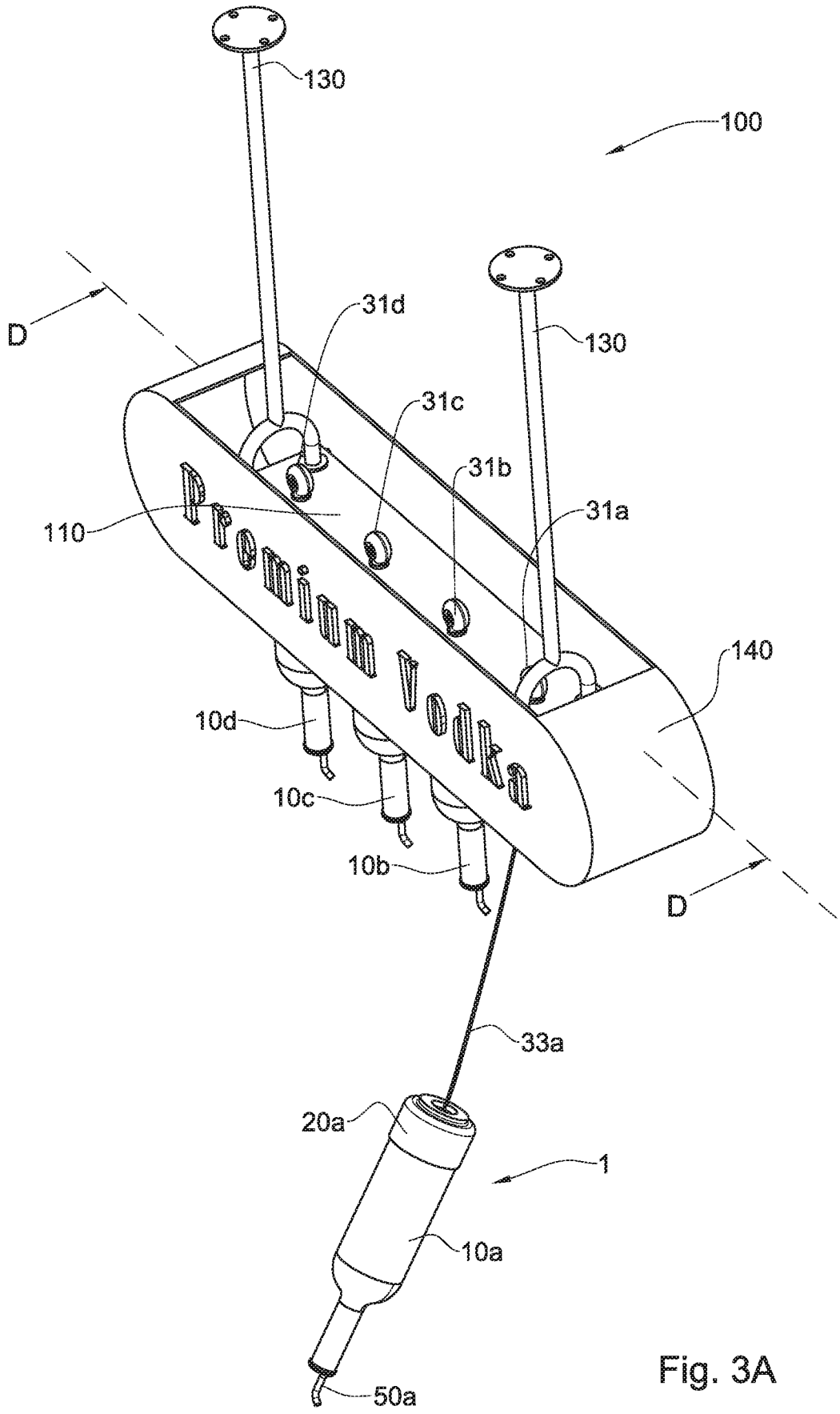

130
100
D
31d
130
31c
31b
110
31a
Premium Vodka
140
10d
10c
10b
D
33a
20a
1
10a
50a

Fig. 3A

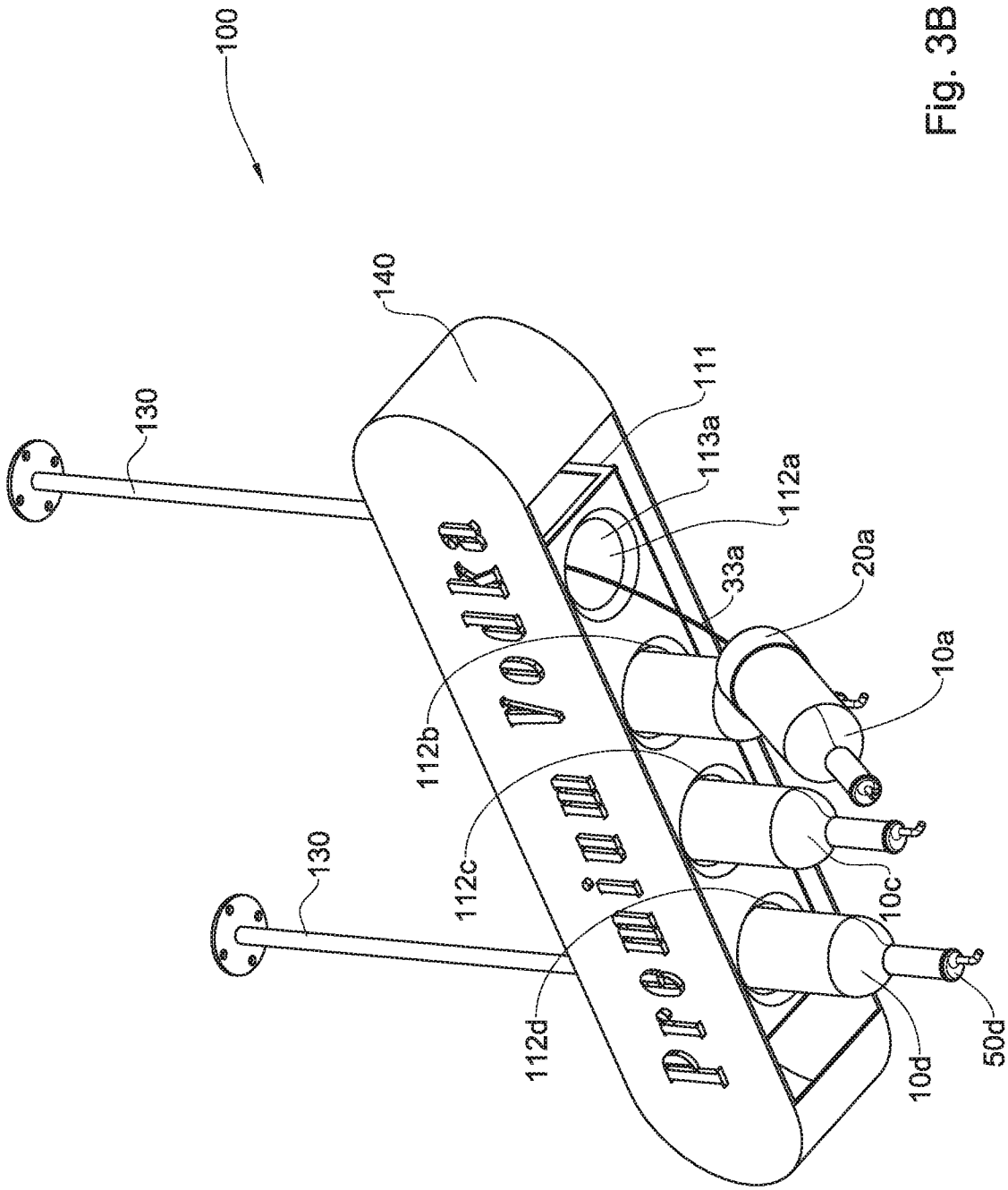

100
140
130
111
113a
112a
33a
20a
10a
112b
112c
130
10c
112d
10d
50d
Premium Vodka

Fig. 3B

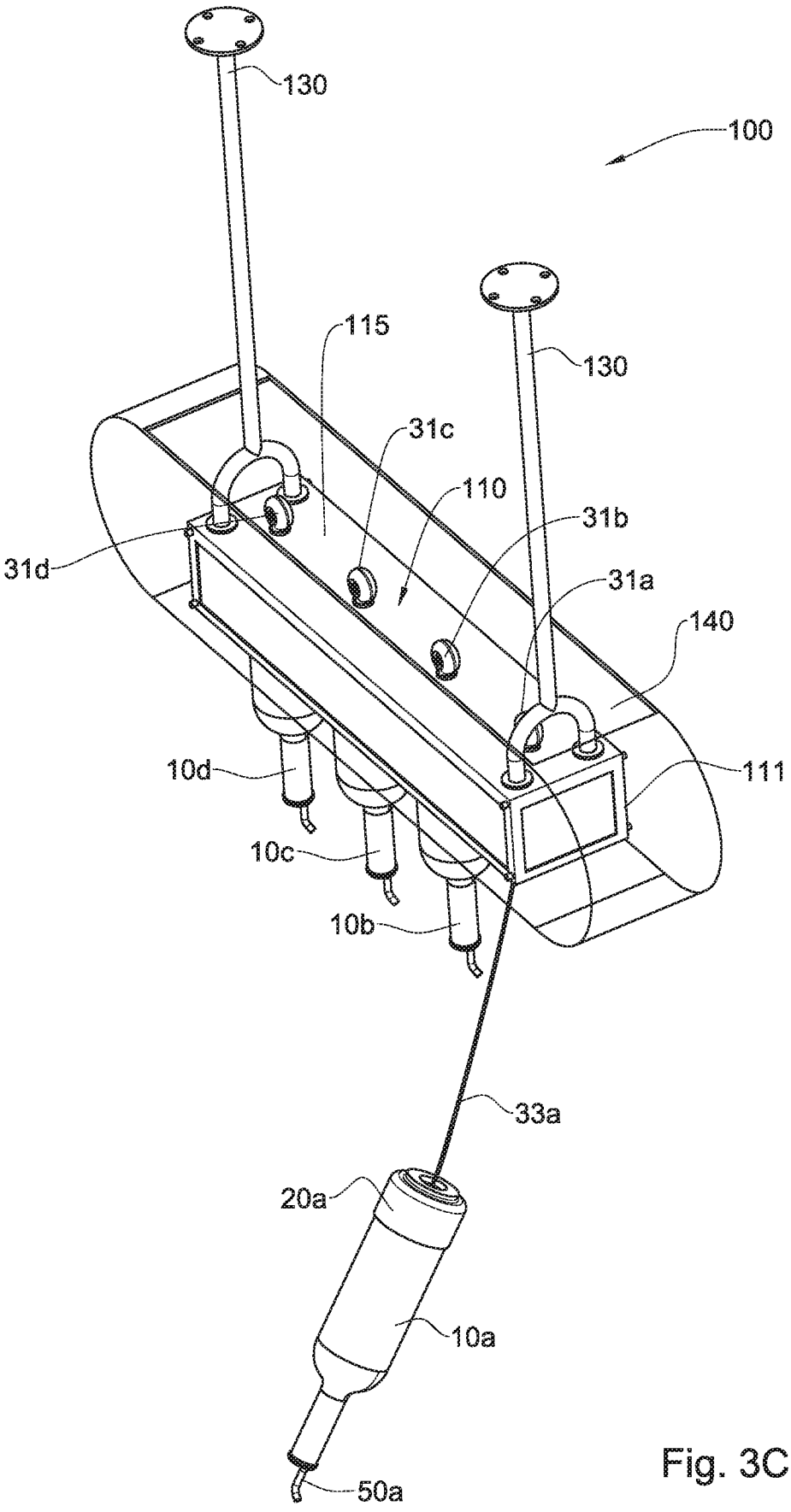

130
100
115
130
31c
110
31b
31d
31a
140
10d
111
10c
10b
33a
20a
10a
50a

Fig. 3C

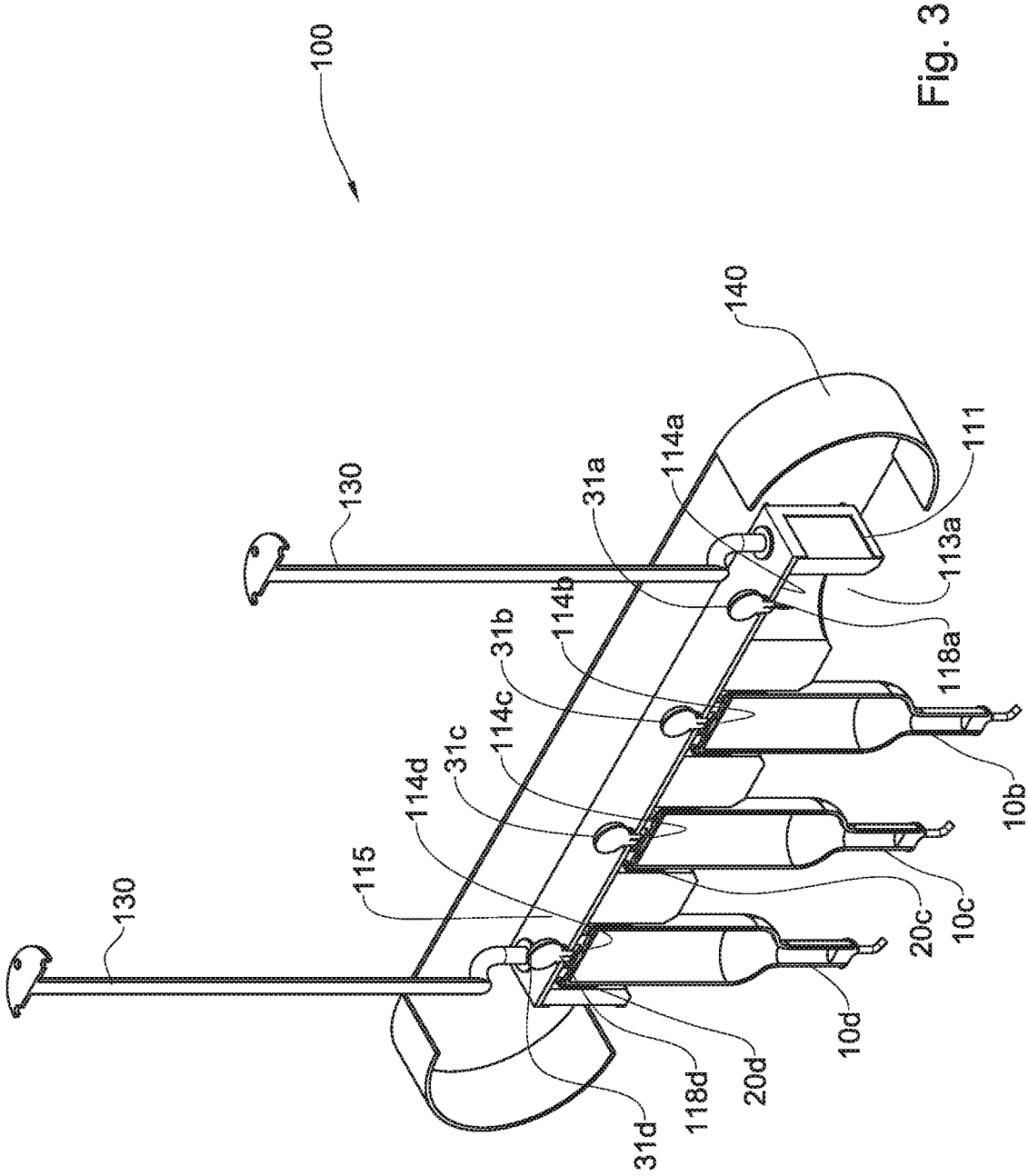

100
140
130
31a
114a
111
113a
114b
31b
118a
114c
31c
10b
114d
115
130
20c
10c
10d
20d
118d
31d

Fig. 3D

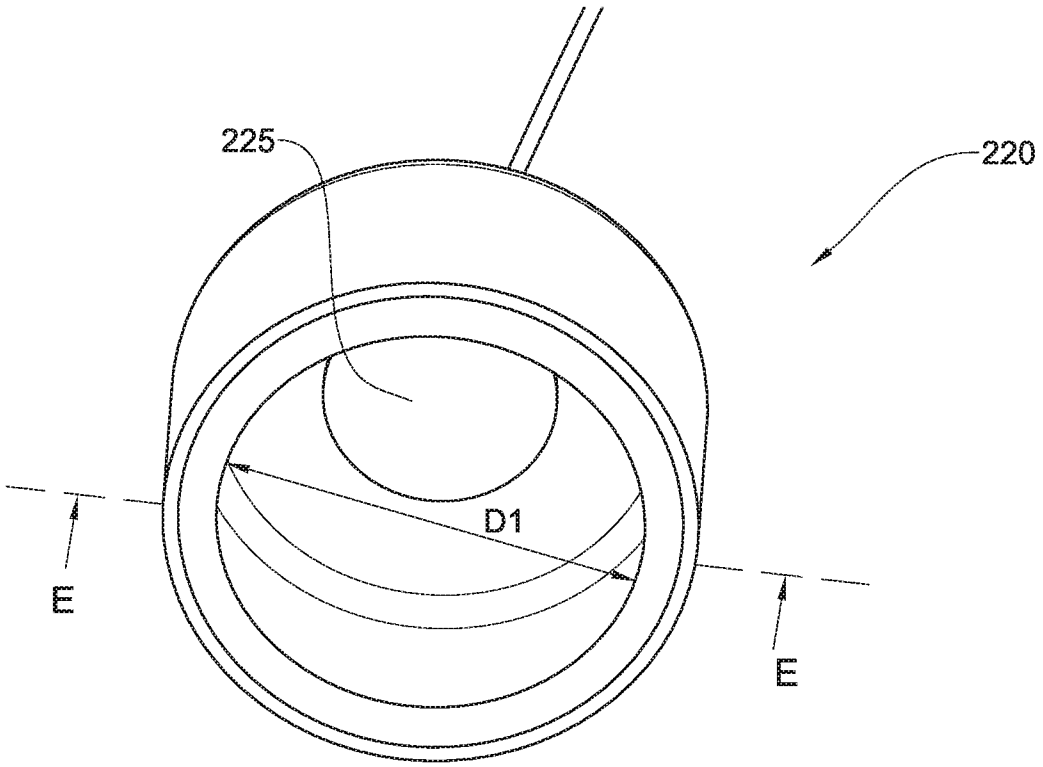


Fig. 4A

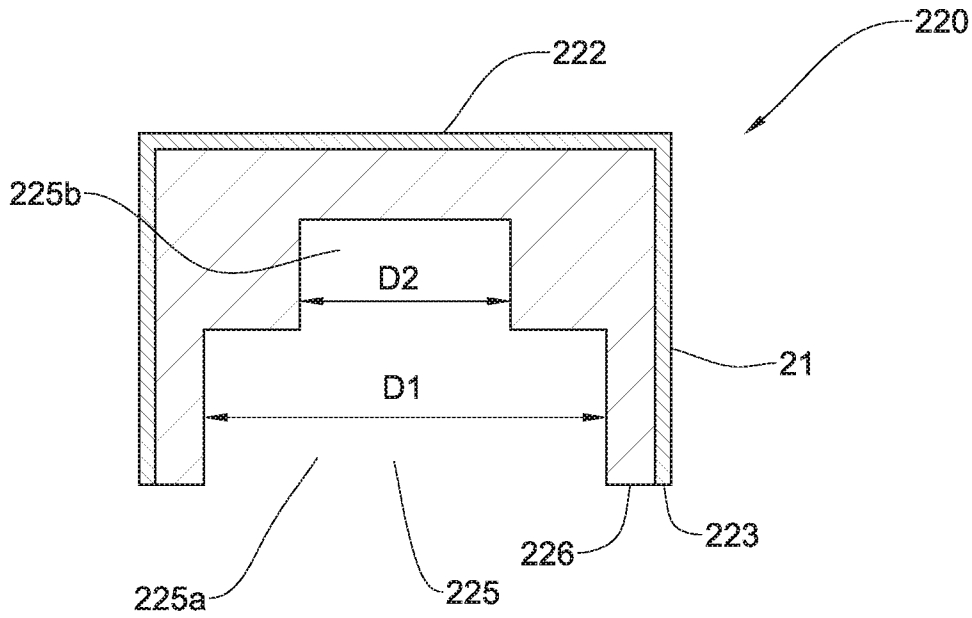


Fig. 4B