



New connection on: : 23-03-2018 : 19:46:33 - Last disconnection on: : 23-03-2018 : 19:46:33

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 19] ..fi epodoc

 Database: EPODOC

[EPODOC: SS 19] (bottle or containe) and base

Results in EPODOC 19.805

[SS 20] * and PD<2014-08-21

Results in EPODOC 12.695

[SS 21] * and diaphragm

Results in EPODOC 73

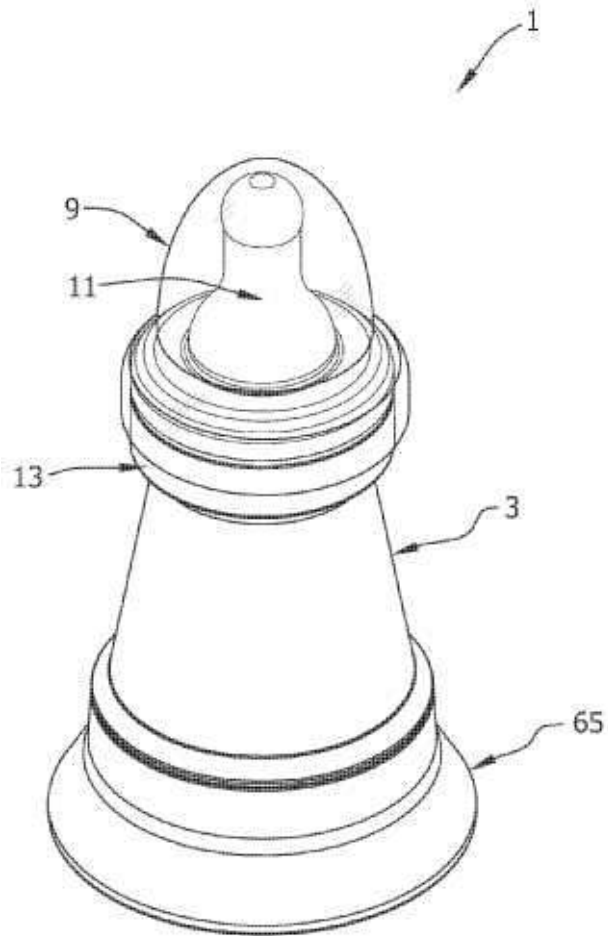
[SS 22] ..v

[EPODOC: SS 22] ..li 1-10



1/73 © EPODOC / EPO

PN - [RU2012138699](#) A 20140320
 PNFP - RU2577728 C2 20160320
 PR - US20100703881
 20100211; WO2011US24332
 20110210
 AP - RU20120138699 20110210
 DT - I
 CCI - [A61J9/04](#)
 CCA - [A61J11/045](#)
 PA - (C2)
 SIMPLISS INK [US]
 TI - (C2)
 ASSEMBLED **BOTTLE** WITH
 BOTTOM VENTILATION
 AB - (C2)
 FIELD: packaging industry.
 SUBSTANCE: group of inventions
 relates to assembled bottles for
 feeding with the bottom
 ventilation. The
 assembled **bottle** comprises
 a **bottle** with an open bottom, an
 upper part and a side wall, an
 upper closing element for
 sealing interaction with the
 upper part of the **bottle** and a
 lower closing element for sealing
 interaction with the **base** part of
 the **bottle**, and also a **diaphragm**.
 At that the **diaphragm** is located
 between the lower closing
 element and a **base** part, has a
 sealing element for sealing
 interaction of the **base** panel of
 the lower closing element and
 the air channel extending
 through the sealing element.
 The **diaphragm** is movable
 between the sealed position in
 which the sealing element is
 engaged with the **base** panel, and
 the un-sealed position in which
 the sealing element is
 disengaged from the **base**. Also
 the assembled **bottle** with
 bottom ventilation is disclosed,
 which comprises a **bottle**, a cap,



a lower closing element,
a **diaphragm**, and a gap.EFFECT:
assembled bottles with bottom
ventilation provide ease of
disassembly, cleaning and
assembling by the user.20 cl, 29
dwg

2/73 © EPODOC / EPO

PN - [CN203480128U](#) U 20140312
PR - CN20132254119U 20130510
AP - CN20132254119U 20130510
DT - I
PA - UNIV HUAQIAO
TI - Optical system for self-reconstruction of periodical **Bottle** beam
AB - The utility model discloses an optical system for the self-reconstruction of periodical **Bottle** beam. The optical system includes an optical platform on which a laser device is arranged. An adjustable attenuator, a short focal length lens, a long focal length lens, a **diaphragm**, a first axicon, a second axicon and an opaque obstacle, the center of which are on the axis of laser light, are orderly arranged along the laser path. The distance between the short focal length lens and the long focal length lens is equal to the sum of the focal lengths of the two lenses, the first axicon closely leans on the **diaphragm**; the **base** angle gamma 1 of the first axicon is smaller than the **base** angle gamma 2 of the second axicon; the second axicon is arranged at 1/2 maximum diffraction free distance of the first axicon; the distance between the opaque obstacle and the second axicon is less than 10cm. The optical system of the utility model provides a new way for researching the self-reconstruction of periodical **Bottle** beam, thereby providing more help for the application of periodical **Bottle** beam in the manipulation of particles or even the multi-plane manipulation of particles.

3/73 © EPODOC / EPO

PN - [CN203439427U](#) U 20140219
PR - CN20132387223U 20130701; CN20132452166U 20130726
AP - CN20132452166U 20130726
DT - I
PA - SHENZHEN BEAUTYSTAR CO LTD
TI - Vacuum distributor
AB - The utility model provides a vacuum distributor, which is suitable for the technical field of the packaging container. The vacuum distributor comprises a storage **bottle**, a **diaphragm**, an inner plug of a coordinating piece and a sealing **base** of the coordinating piece, wherein the **diaphragm** comprises a flexible wall and an outlet sealing part connected to the upper part of the flexible wall, the flexible wall is thin, and the outlet sealing part is thick; the inner plug of the coordinating piece is provided with a support wall, the support wall is provided with a through hole formed into a liquid outlet, the sealing **base** of the coordinating piece is provided with an annular connecting wall, and the center of the annular connecting wall is provided with a

through hole formed into a content inlet. When the vacuum distributor is under the free state or the suction state, the liquid outlet is sealed by the outlet sealing part; when the vacuum distributor is in the pump-out state, the outlet sealing part is deformed and moved due to extrusion, and the liquid outlet is in the conducting state. The outlet sealing part of the vacuum distributor provided by the utility model has the advantages of thick wall, simple structure and small possibility of being damaged, so the sealing performance of the vacuum distributor becomes more stable and reliable, and the content can be effectively prevented from being leaked, deteriorated or polluted.

PN - [WO2014000494](#) A1 20140103

PR - CN20121212647 20120626

AP - WO2013CN74054 20130411

DT - *; Rep

CT - |CN| ISR (A1)
[CN102688533](#) A [XP];
[CN202654497U](#) U [XP];
[CN201880106U](#) U [Y];
[US4173222](#) A [Y];
[CN201324408Y](#) Y [Y];
[CN201969108U](#) U [Y];
[EP0102748](#) B1 [A]

CCI - [A61M5/1411](#)

CCA - [A61M2005/1657](#) ;
[A61M2205/7527](#)

PA - DIAN BAI KANGERMEI BIOLOG
TECHNOLOGY CO LTD [CN]

TI - SELF-STOPPING TYPE PRECISION
FILTER INFUSION APPARATUS
CAPABLE OF PREVENTING BLOOD
RETURN

AB - A self-stopping type precision
filter infusion apparatus
capable of preventing blood
return comprises a drip chamber
(1), a **bottle** plug puncture device
(15) and catheters (2,16). A
precision filter is arranged
within a lower portion of the
drip chamber (1). The precision
filter is provided with an
air **diaphragm** (12), a selective
infusion device and a filter
mounting **base** (8). The
air **diaphragm** (12) is arranged at
the bottom end of the filter
mounting **base** (8) or at the
bottom of the portion of drip
chamber (1) arranged under the
filter mounting **base**. The
selective infusion device is fixed
on the filter mounting **base** (8).
The filter mounting **base** (8) is
connected to the bottom of the
drip chamber (1) and is
communicated with an output
end of the drip chamber (1). The

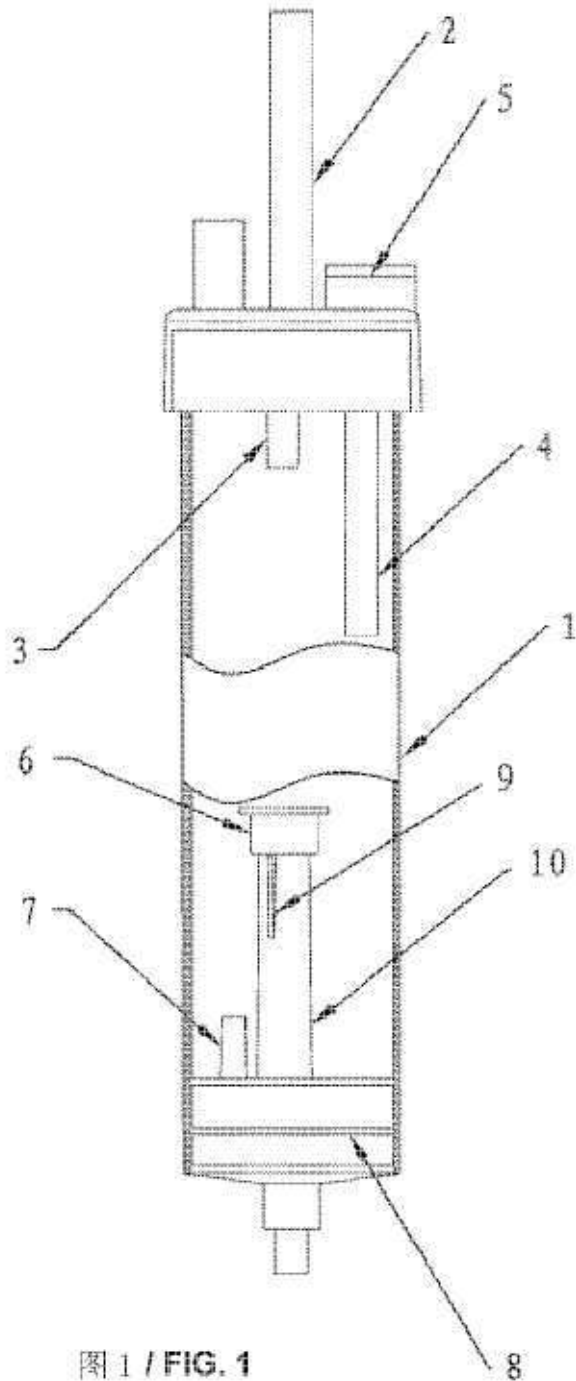


图 1 / FIG. 1

selectively infusion device is provided with a hydrophilic **diaphragm** (13), and also comprises a first infusion pipe (7), a second infusion pipe (10) and a continuous liquid supply orifice (11) which are arranged on the filter mounting **base** (8), respectively. The heights of liquid inlet end surfaces of the second infusion pipe (10), the first infusion pipe (7) and the continuous liquid supply orifice (11) reduce sequentially, and the liquid inlet end surfaces are communicated with the output end of the drip chamber (1), respectively. The liquid inlet end surface of the continuous liquid supply orifice (11) is positioned at the bottom of the filter mounting **base** (8). The drip chamber (1) can also comprise a liquid inlet pipeline (3) and an exhaustion pipeline (4), and the height of the liquid outlet end of the liquid inlet pipeline (3) is more than that of the air intake end of the exhaustion pipe (4). With said structure, the phenomenon of blood return can be avoided, and the apparatus is simple in structure and convenient to operate.

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PN - [CN103424871](#) A 20131204

PNFP - CN103424871B B 20160224

PR - CN20131173080 20130510

AP - CN20131173080 20130510

DT - I

CT - || STSE (A)

[CN102902066](#) A 20130130 [A] (UNIV HUAQIAO)

[A] 1-4

全文

[CN203480128U](#) U 20140312 [R] (UNIV HUAQIAO)

[R] 1-4

权利要求1-4

[CN102116883](#) A 20110706 [A] (UNIV HUAQIAO)

[A] 1-4

全文

- PA - (A)
UNIV HUAQIAO
- TI - (A)
Optical system of cycle **bottle** beam self-reconstruction
- AB - (A)
The present invention discloses an optical system of cycle **bottle** beam self-reconstruction. The optical system of the cycle **bottle** beam self-reconstruction comprises an optical platform on which a laser is placed, and an adjustable attenuator, a short focal length lens, a long focal length lens, a **diaphragm**, a first axicon, a second axicon and a light-tight barrier of which the centers are all in an optical axis, are placed orderly along a laser light path of the laser, wherein the distance between the short focal length lens and the long focal length lens is the sum of the focal lengths of the two lenses, and the first axicon presses against the **diaphragm** tightly; the **base** angle gamma 1 of the first axicon is less than the **base** angle gamma 2 of the second axicon, the second axicon is located at the position having a 1/2 maximum non-diffracting distance generated by the first axicon with the first axicon, and the distance between the light-tight barrier and the second axicon is less than 10 cm. The optical system of the present invention provides a new method for researching the cycle **bottle** beam self-reconstruction, and provides the more favorable conditions for the **bottle** beam in the operation and control of particles, even in the multi-planar operation and control of particulates.

6/73 © EPODOC / EPO

- PN - [CN203259719U](#) U 20131030
- PR - CN20132149481U 20130328
- AP - CN20132149481U 20130328
- DT - I
- PA - UNIV HUAQIAO
- TI - Optical system for generating periodic **Bottle** beam
- AB - The utility model discloses an optical system for generating a periodic **Bottle** beam. The optical system comprises an optical platform. A laser is arranged on the optical platform. An adjustable attenuator, a short-focus lens, a long-focus lens, a **diaphragm**, a first axicon and a second axicon are arranged in sequence along the laser path of the laser, and the focuses of the short-focus lens and the long-focus lens are superposed. The first axicon is close to the **diaphragm**. The **base** angle Beta of the first axicon is smaller than the **base** angle Gamma of the second axicon. The second axicon is arranged in the maximum non-diffracting distance generated by the first axicon. Through the optical system disclosed by the utility model, the periodic **Bottle** beam can be conveniently and rapidly generated, and a concise and effective new approach for obtaining the periodic **Bottle** beam is provided. In actual application, the optical system for generating the periodic **Bottle** beam has a special meaning, especially for the multi-dimension operation of particulates.

7/73 © EPODOC / EPO

- PN - [CN103286046](#) A 20130911
- PNFP - CN103286046B B 20160120
- PR - CN2012150003 20120229
- AP - CN2012150003 20120229
- DT - I
- CT - || STSE (A)
[US2003050597](#) A1 20030313 [] (DODGE LARRY H [US], et al)
[DE10250715](#) A1 20030618 [] (KETTENBACH GMBH & CO KG [DE])
[US2005205158](#) A1 20050922 [] (LACROIX JEAN-PIERRE [FR])
[CN102065819](#) A 20110518 [] (CILAG GMBH INT)
[DE4316807](#) A1 19941124 [] (SCHNEIDER FRIEDHELM [DE])
- PA - (A)
MICROJET TECHNOLOGY CO LTD
- TI - (A)
Disposable spray head module suitable for biomedical detection
- AB - (A)
The invention discloses a disposable spray head module suitable for biomedical detection. The disposable spray head module comprises a **base** and a containing **bottle**, wherein a spray head assembly is arranged inside the **base**; a puncture part, a fastening part and an isolating assembly are arranged on the spray head assembly; the containing **bottle** is used for containing liquid and provided with an opening, and the opening is sealed by a **diaphragm**; when the containing **bottle** is arranged on the **base**, the **diaphragm** of the containing **bottle** is arranged corresponding to the puncture part of the **base**; and the opening of the containing **bottle** is blocked on the fastening part of the **base**, so that the puncture part penetrates through the **diaphragm** for guiding the liquid in the containing **bottle** to flow to the spray head assembly by virtue of the puncture part, and guiding clean gas to adjust the internal pressure of the containing **bottle** by virtue of the isolating assembly, and therefore, micro-droplets are sprayed out by the spray head assembly.

8/73 © EPODOC / EPO

- PN - [CN103217796](#) A 20130724
- PNFP - CN103217796B B 20160106
- PR - CN20131105403 20130328
- AP - CN20131105403 20130328
- DT - I
- CT - || STSE (A)
[CN203259719U](#) U 20131030 [] (UNIV HUAQIAO)
[CN202041723U](#) U 20111116 [] (UNIV HUAQIAO)
- CTNP - || STSE (A)
[] 郑维涛,吴逢铁,张前安,程治明, "双轴棱锥产生长距离近似无衍射光的新技术", <<物理学报>>, (20120720), no. 14
- PA - (A)

TI

- (A)
Optical system for generating cyclic **Bottle** beam

AB

- (A)
The invention discloses an optical system for generating a cyclic **Bottle** beam. The optical system comprises an optical platform, wherein a laser device is arranged on the optical platform, and an adjustable attenuator, a short focal length lens, a long focal length lens, a **diaphragm**, a first axicon and a second axicon are sequentially arranged along the laser path of the laser device; the focus of the short focal length lens coincides with the focus of the long focal length lens; the first axicon is close to the **diaphragm**; the **base** angle Beta of the first axicon is smaller than the **base** angle Gamma of the second axicon; and the second axicon is positioned in the maximum non-diffracting distance generated by the first axicon. Through the optical system disclosed by the invention, the cyclic **Bottle** beam can be conveniently and rapidly generated, and a concise and effective new approach of obtaining the cyclic **Bottle** beam is provided. In actual application, the optical system for generating the cyclic **Bottle** beam particularly has a special meaning for the multi-dimension operation of particulates.

PN - [MX2012012162](#) A 20130305

PR - US20100766868
20100424; WO2011US33570
20110422

AP - MX20120012162 20110422

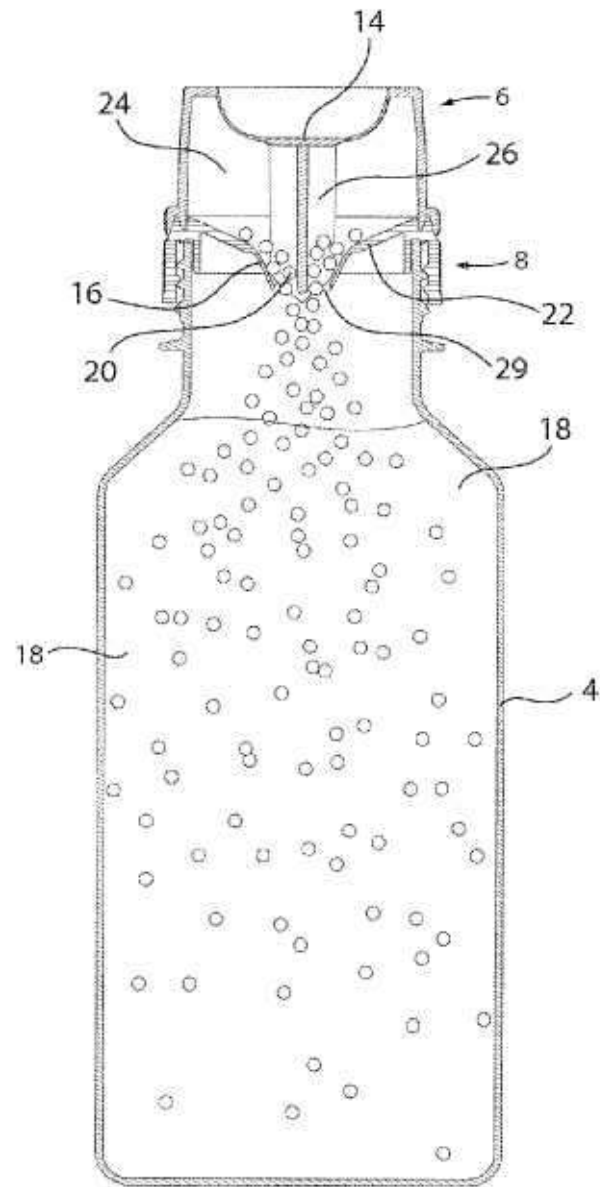
DT - I

CCI - [B65D51/2835](#)

PA - KARMA CULTURE LLC [US]

TI - DISPENSING CAPSULE.

AB - A dispensing capsule has a **diaphragm** button, stake and frangible membrane for a system for selectively dispersing the contents of a cup into an attached **bottle**. A frangible membraned cup has a **diaphragm** button operably attached to a stake with the stake's sharp point at one end and the **diaphragm** button on the opposing end. A cavity is disposed in the cup for consumable product defined by side walls and a **base** plate. Preloaded ingredients contained within the hermetically sealed cup are discharged from the dispensing capsule into a **bottle** by simply depressing a button disposed on the **diaphragm** of the cup, thereby actuating the stake to thrust forward and apply concentrated pressure abaxially to the frangible membrane. This concentrated pressure pierces substantially the center of the frangible membrane, causing it to rupture and progressively opening it. The **diaphragm** button locks in this downward position, holding the stake into the opened frangible membrane to maintain the opening, permitting the contents to flow through the frangible membrane and exit the cavity of the cup.



10/73 © EPODOC / EPO

PN - [MX2012009345](#) A 20121001

PR - US20100703881
20100211; WO2011US24332
20110210

AP - MX20120009345 20110210

DT - I

CCI - [A61J9/04](#)

CCA - [A61J11/045](#)

PA - SIMPLISSE INC [US]

TI - **BOTTLE ASSEMBLY HAVING
BOTTOM VENT.**

AB - A **bottle** assembly including a **bottle**, a top closure member adapted for releasable engagement with a top portion of the **bottle**, and a bottom closure member adapted for releasable engagement with a **base** portion of the **bottle**. The bottom closure member has a **base** panel with at least one aperture therein. A **diaphragm** is positionable between the bottom closure member and the **base** portion. The **diaphragm** has at least one sealing element for sealingly engaging the **base** panel of the bottom closure member and an air passage extending through the at least one sealing element. The **diaphragm** is moveable between a sealed position and an unsealed position. The air passage is configured to inhibit liquid contained within a liquid chamber of the **bottle** from entering the air passage when the **diaphragm** is in its sealed position by trapping air within the air passage.

