



New connection on: : 05-04-2018 : 22:03:59 - Last disconnection on: : 05-04-2018 : 22:01:26

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

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[EPODOC: SS 2] ..fi EPODOC

 Database: EPODOC

[EPODOC: SS 2] tube+ AND Packag+ AND method+ AND dispens+

Results in EPODOC 206

[SS 3] ..li



1/206 © EPODOC / EPO

PN - [WO2018047157](#) A1 20180315

PR - IL20160247786 20160912

AP - WO2017IL50894 20170814

DT - *; Rep

PA - PLOTKIN ALEXANDER [IL]; MENGLET DMITRI [AU]

TI - WOUND COVERING WITH HAEMOSTATIC ACTION AND THE **METHOD** OF ITS CREATION

AB - The present invention relates to the field of medicine, generally to the field of surgical and emergency medical wound covering means on the base of haemostatic composition designated as Hemoblok. The invention proposes a new **method** of usage of these haemostatic compositions to activate the formation of artificial clots that can adhere to wounded tissue for the suppression of fluid loss and for the protection of viable tissue. The **method** consists of the steps to be applied to the open wound a grid-forming water-soluble haemostatic Hemoblok composition consisting of a polyacrylic matrix as an active ingredients, creating by Hemoblok the clot formation with the blood plasma proteins, preferably with albumin, creating a structure containing albumin molecules in the cells of the polyacrylic matrix (grid), which is the primary organizer of sustainable polyacrylic film, further forming by Hemoblok the multilayered solid polyacrylic film, then the replacement by fibrin of the surface structure hemoblok-protein and implementation of plasma formation of the polyacrylic matrix. Another object of the invention is a kit for creation of wound covering, comprising, **packaged** in association a Hemoblok composition, and a **dispenser** for applying the Hemoblok to open wounds, which is made as a woven or a non-woven fabric, a **tube**, a bandage or a container having at least one opening.

2/206 © EPODOC / EPO

PN - [AU2018200500](#) A1 20180215
PR - AU20180200500 20180122; AU20160202265 20160412; AU20130251265 20131101
AP - AU20180200500 20180122
DT - I
PA - THE COCA COLA COMPANY
TI - Systems and **methods** for facilitating consumer-**dispenser** interactions
AB - Embodiments of the invention can include systems and **methods** for facilitating consumer-**dispenser** interactions. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a reader configured to read machine readable item. In addition, the product **dispenser** can include a controller in communication with the reader, and operable to execute a set of instructions to receive information from the machine readable item associated with a consumer via the reader. Moreover, the controller can be further operable to execute a set of instructions to configure at least part on the information from the machine readable item, and **dispense** a product. Data Processing Recipes/ 100 Resource / Server Formulations/ 126 **Methods** Of Making Consumer Database Database etwork (LAN, Intent Netc- Operational 132 Database 11 8A Ingredient Matrix 116A Data Storage eader Product Forming Ingredient **Package** 116B Device! Memory Scanne Product Forming Ingredient **Package** 116Q Reader /I Carbonated Water Supply Scanner / Writer Sweetener 116P Water Supply 116Q Reader / **Tubes** 120, 106A ,, Pumps/ 122 Valves) **Tubes** - Nozzle Mixed Pour FPrinter 134 . -. Product **Dispenser** 1 02N 3Scanner

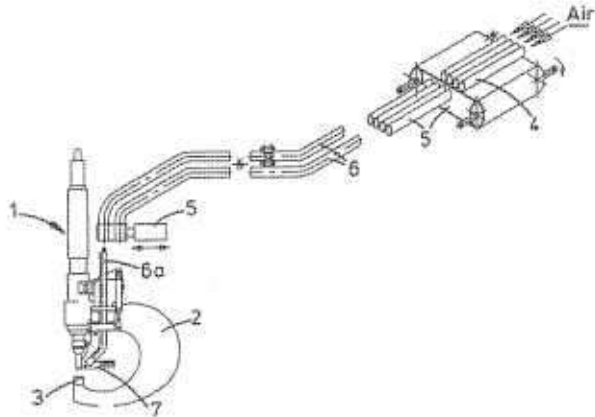
3/206 © EPODOC / EPO

PN - [AU2018200577](#) A1 20180215
PR - AU20180200577 20180124; AU20160208413 20160729; AU20140201292 20140307; AU20080296269 20080904
AP - AU20180200577 20180124
DT - I
PA - THE COCA COLA COMPANY
TI - Systems and **methods** for facilitating consumer-**dispenser** interactions
AB - Embodiments of the invention can include systems and **methods** for consumer-**dispenser** interactions. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a user interface operable to interact with a consumer and receive at least one input from the consumer. The product **dispenser** can also include a controller comprising a set of instructions operable to receive a request from a consumer to **dispense** a custom product. In addition, the controller can further comprise a set of instructions operable to present via the user interface a at least one of a list of selectable product ingredients or adjustable product formulation parameters. Moreover, the controller can further comprise a set of instructions operable to **dispense** a product based at least in part on one or more of the selectable ingredients or selected formulation parameters. Data Processing Recipes! 100 Resource / Server Formulations/ 126 **Methods** Of Making Database etwork (LAN, WAN, -- 128B Operational 132 Database 104 108 102A 118A Ingredient Matrix 116A Data Storage Read er I (Product Forming Ingredient **Package** 116B Device / Memory |Scanner 110

/Writer Product Forming Ingredient **Package** 116C Controlled Product Fanning
 Ingredient **PackageY** 114,116N 12 Product Forming Ingredient **Package** 1160 Reader I
 Carbonated Water Supply Scanner / Writer Sweetener 116P SWater upp 116Q Reader
 / **Tubes** 120, Scanner 106A Pumps/ 122 hi/ves) 124 **Tubes** No zi Mixed ,Pour Printer
 Product **Dispenser** Fi Scanner 138

4/206 © EPODOC / EPO

PN - [US2017348762](#) A1 20171207
 PR - US201715687087
 20170825; GB19980016796
 19980803; US201615141547
 20160428; US201414478764
 20140905; US20100941539
 20101108; US20090356225
 20090120; US20050102335
 20050408; US20010762200
 20010720; WO1999GB02545
 19990803
 AP - US201715687087 20170825
 DT - **
 CT - || R141 (A1)
[US9776239](#) B2 20171003 [
] (CRAYTHORN RUPERT ANDREW
 [AU], et al)
 CCI - [B21J15/32](#)
 CUI - [B21J15/025](#) ; [B21J15/10](#) ;
[B23P11/00](#)
 CCA - [Y10T29/49](#) ; [Y10T29/49943](#) ;
[Y10T29/49947](#) ; [Y10T29/49956](#) ;
[Y10T29/5118](#) ; [Y10T29/5343](#) ;
[Y10T29/53478](#) ; [Y10T29/5377](#)
 CUA - [B65G47/1407](#)
 PA - HENROB LTD [GB]
 TI - **METHOD** FOR DELIVERING AND
 SETTING SELF-PIERCING RIVETS
 AB - Fastener delivery apparatus for
 automatically selecting and
 delivering fasteners such as
 rivets to a setting tool. The
 fasteners are pre-loaded in
 a **package** and **dispense** via at
 least one fastener delivery **tube**
 that interconnects the setting
 tool to a fastener feeder device.
 The fastener feeder device
 releases selected fasteners from



the **package** into the delivery **tube**. The fasteners are transportable individually or in groups in the **tube** from the feeder device to the tool. A transfer station attached to the tool or the delivery **tube** transfers a fastener from the delivery apparatus into the tool, transfer station is adjacent to the tool so that a delivered fastener may be inserted by the transfer station into the tool and a second position in which it is clear of the tool so as to permit the tool or a portion thereof to move towards a workpiece to insert a smooth, rapid and reliable delivery of fasteners of various sizes and types to the nose of a setting tool in any particular order and provides all the fastener types for any particular work cycle.

5/206 © EPODOC / EPO

PN - [CN107432883](#) A 20171205

PR - CN20171738584 20170825

AP - CN20171738584 20170825

DT - I

CNOI - [A61K9/14](#) ; [A61K36/47](#)

CNOA - [A61K2236/31](#) ; [A61K2236/51](#) ; [A61K2236/53](#)

PA - XU MAN

TI - Preparation process of herba speranskiae **tuberculatae** powder decoction piece obtained through freshly squeezing and vacuum drying

AB - The invention discloses a preparation process of a herba speranskiae **tuberculatae** powder decoction piece obtained through freshly squeezing and vacuum drying. According to the process, the medicinal material, namely, herba speranskiae **tuberculatae** is harvested, selected, rinsed and freshly squeezed, and decoction is obtained through filtering; water is added into the dregs of the decoction, stirring is carried out, filtering is carried out, and squeezing is carried out; the decoctions are mixed, reduced pressure concentration is carried out, vacuum drying is carried out, grinding is carried out, and vacuum **packaging** is carried out. For the herba speranskiae **tuberculatae** powder decoction piece prepared by adopting the **method**, the polar and non-polar active ingredients in the medicinal materials are reserved to the maximum. The decoction piece is easy to store and transport, the **dispensing** is convenient, the quality is controllable, the curative effects are reliable, and the

decoction piece has the great significance for guaranteeing the clinical efficacies of the traditional Chinese medicines. The popularization and implementation of the **method** have significant social significance and economic efficiency.

6/206 © EPODOC / EPO

PN - [AU2017216443](#) A1 20170831
 PR - AU20170216443 20170814; AU20130201375 20130306; AU20080296298 20080904
 AP - AU20170216443 20170814
 DT - I
 PA - THE COCA-COLA COMPANY
 TI - Systems and **methods** for monitoring and controlling the **dispense** of a plurality of product forming ingredients
 AB - Systems and **methods** for **dispensing** a product are provided. A plurality of product ingredients are associated with a product **dispenser** that is operable to form a plurality of selectable products from the plurality of products ingredients. Input for a selected product is received and a recipe that defines the ratio of product ingredients for forming the selected product is identified. The **dispense** of each of the respective product ingredients is commenced based at least in part on the identified recipe, and the **dispense** of each of the respective product ingredients is independently monitored during the **dispense** of the selected product. WO 2009/032875 PCT/US2008/075177 150A 150B 150C 118A Ingredient Matrix RFID Reader/Writer -- 170A RFID LAN, WAN Reader Beverage Forming Ingredient **Package** 114A Internet, etc Writer RFID R e r A RDr 170B Beverage Forming ingredient **Package** -1 14B 105 [7 155- _____ RFID Reader/Writer i-1700 rammed LBeverage Forming Ingredient **Package** -1140 Data Operating System 186 RFID Reader/Writer -170N 180 iBeverage Forming Ingredient **Package** 114N -Carbonated Water Supply - 1140 175 -~_ Sweetener ~--114P ~Water Supply -114Q Many **Tubes** 120, ___ Pumps/ 125 S- - Valves Output Input - -- Sensors Device(s) Device(s) Many **Tubes**- 4 140 Nozzle 160 165 10 Mixed Pour----4 FIG. 1 a1

7/206 © EPODOC / EPO

PN - [WO2017220688](#) A1 20171228
 PR - GB20160010853 20160621
 AP - WO2017EP65302 20170621
 DT - **
 CUI - [B65B9/20](#)
 CUA - [B65B55/103](#)
 PA - STERAFILL LTD [GB]
 TI - STERILE **PACKAGING** OF FLUENT MATERIALS
 AB - A **method** of forming individual **tubes** or sachets containing fluent material, and a **packaging** machine for doing so, are described. The side of the foil which will be in contact with the fluent material when the **package** is formed is exposed to plasma mist or aerosol form as the **tube** or sachet is formed from a strip of laminate material (1), which is folded about a former (2) into a closed **tube** or sachet which passes over the open end of a **dispensing tube** (3) from which the fluent material is **dispensed**. A mist of

plasma is injected into the interior of the material **tube** as it is formed, extracted from the area once it has passed over the interior walls of the laminate **tube**. The **dispensing tube** may be surrounded by a cylindrical pipe (6) having an open end adjacent the **dispensing tube** and providing a tapered or stepped construction to a forming **tube** (2) about which the laminate is folded, enabling the mist to flow out of the open end of the pipe surrounding the **dispensing tube** (3) and then to reverse direction and flow past the laminate surface as the **tube** or sachet is formed and thus sterilise that surface before it comes into contact with the product in question.

8/206 © EPODOC / EPO

PN - [MX2015008472](#) A 20161026

PR - US201213729195
20121228; WO2013US77766
20131226

AP - MX20150008472 20131226

DT - I

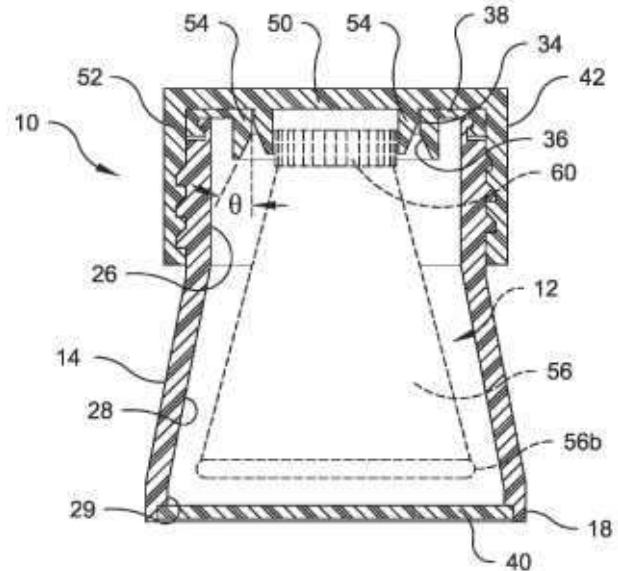
CCI - [B65D77/06](#) ; [B65D35/56](#)

CCA - [B65D2215/00](#)

PA - GALDERMA RES & DEV [FR]

TI - COMBINATION CHILD-
RESISTANT **PACKAGE** AND
COLLAPSIBLE **TUBE**, AND **METHOD**
OF USING SAME.

AB - A combination includes a child-resistant **package** (10) and a collapsible **tube** (12) removably positionable therein. A sidewall (20) of a body (14) of the **package** has an interior surface (22) and an opposing exterior surface (24). A cavity (30) is defined by the body. An opening (32) is positioned proximate an open first end (16) of the body. A bottom wall (40) is positioned proximate an open second end (18) of the body. A cap (42) is removably mounted onto at least a portion of the first end of the body. The collapsible **tube** is surrounded by the body, the bottom wall and the cap when the cap is mounted onto at least a portion of the first end of the body. The collapsible **tube** includes a generally flexible housing (56) defining a cavity



(58) for holding a substance to be **dispensed** from the housing. A closure (60) is removably mounted onto the housing.

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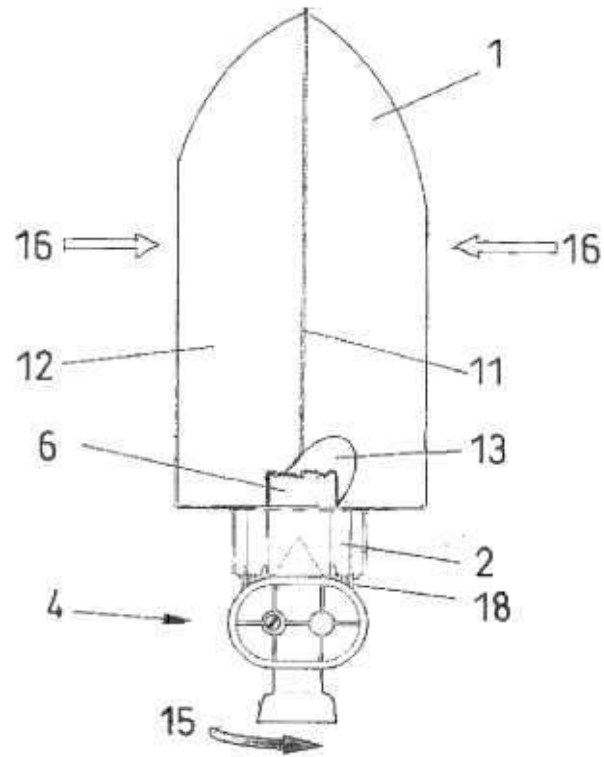
PN - [CN106163675](#) A 20161123

PR - DE201310221706
20131025; WO2014EP70888
20140930

AP - CN2014858496 20140930

DT - I

CT - || STSE (A)
[CN1267269](#) A 20000920
[A] (CROWN CORK & SEAL TECH
CORP [US])
[A] 1-14
* 全文 *;
[CN1743239](#) A 20060308
[A] (SIQUIST ENCLOSED PIECE
FOREIGN [US])
[A] 1-14
* 全文 *;
[CN1871163](#) A 20061129
[Y] (SEAQUIST CLOSURES [US])
[Y] 1-8、11-14
* 说明书第7页第14行至第20页
第21行, 及附图1-20 *;
[CN101678914](#) A 20100324
[A] (LIQUID MOLDING SYSTEMS
INC)
[A] 1-14
* 全文 *;
[US2011121028](#) A1 20110526
[A] (RUSCH GERALD A [US])
[A] 1-14
* 全文 *;
[US2012248149](#) A1 20121004
[A] (PELFREY KEITH [US])
[A] 1-14
* 全文 *;
[WO2013135434](#) A1 20130919
[Y] (BOSCH GMBH ROBERT [DE])
[Y] 1-8、11-14
* 说明书第0042-0054段, 及附
图1-11 *
CCI - [B05B9/0416](#) ; [B05B9/043](#) ;
[B05B9/047](#) ; [B05B11/007](#) ;



[B05B11/0072](#) ; [B05B11/3047](#)

- CUI - [B05B11/0043](#)
- PA - BOSCH GMBH ROBERT
- TI - **Method** for **dispensing** liquid ingredients from a tubular bag in a metered manner, and means for carrying out the **method**
- AB - The invention relates to a **method** for **dispensing** viscous or pasty ingredients (12), which are **packaged** in an aseptic manner, from a tubular bag (1), which is closed prior to the first use, by means of a disposable pump (4) attached to the bag. The disposable pump (4) has an inlet (5) with a cutting element (6), and a nozzle (2) with a flange (3) is welded onto the tubular bag (1). The disposable pump (4) is rotated relative to the nozzle (2), and the tubular bag (1) is thereby cut open. A valve (9) is arranged in the region of the outlet opening of an outlet **tube** (8) of the pump, and the disposable pump (4) is operated after the initial opening process until a freely selectable volume has exited the closing valve. The disposable pump (4) is then operated in the opposite rotational direction in order to suction ingredients (12) present on or in the region of the valve (9) back into the outlet **tube** (8). In the process, the valve (9) reaches or remains in the closed valve state. A valve (9) is proposed for carrying out the **method**. The valve is arranged in the outlet **tube** (8) and comprises a membrane (93, 191) which is sealingly mounted in a sliding manner or can be inverted. Using the **method**, the ingredients (12) can be **dispensed** in a metered

manner from a tubular bag (1),
in which the ingredients are
aseptically **packaged**, into
virtually aseptic containers until
the ingredients are practically
completely used.

10/206 © EPODOC / EPO

PN - [AU2016250466](#) A1 20161117
PR - AU20160250466 20161028; AU20130245534 20131018
AP - AU20160250466 20161028
DT - I
PA - THE COCA-COLA COMPANY
TI - Device and **method** for operating an interactive **dispenser**
AB - Embodiments of the invention can include systems and **methods** for **dispensing** consumable products. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a user interface operable to receive consumer inputs and to present product selection information. In addition, the product **dispenser** can include a reader configured to obtain identification information associated with a consumer. The product **dispenser** can include a controller in communication with the reader and user interface, and operable to execute a set of instructions to receive from the reader identification information associated with a consumer. The controller can also be operable to execute a set of instructions operable to retrieve consumer information based at least in part on the identification information, and provide product selection information at the user interface based at least in part on the consumer information. Data Processing Recipes/ 100 Resource / Server Formulations/ 126 **Methods** Of Making Consumer Database Database etwork (LAN, WAN, 1In tern et, e t c-3 Operational 104 Database 118A Ingredient Matrix 116A Data Storage Reader ' Product Forming Ingredient **Package** 116B Device / Memory 110|Writer (Product Forming Ingredient **Package** 116C Controlle Product Forming Ingredient **Package** 1 2Product Forming Ingredient **Package** 1160 Reader I(Carbonated Water Supply Scanner D / Writrer Sweetener 116P (waerSppy 116Q Reader/I Rede /**Tubes** 120, Scanner 106A Pumps/ 122 Valves) **Tubes** 2 Nozzle Mixed Pour Printer Product **Dispenser** .. Scanne Fi . w4a 1383

11/206 © EPODOC / EPO

PN - [US2016311011](#) A1 20161027

PNFP - US9776239 B2 20171003

PR - US201615141547
 20160428; GB19980016796
 19980803; US201414478764
 20140905; US20100941539
 20101108; US20090356225
 20090120; US20050102335
 20050408; US20010762200
 20010720; WO1999GB02545
 19990803

AP - US201615141547 20160428

DT - **

CT - || R141 (A1)
[US9352383](#) B2 20160531 [
] (CRAYTHORN RUPERT ANDREW
 [AU], et al)
 - || STSE (B2)
[US9352383](#) B2 20160531 [
] (CRAYTHORN RUPERT ANDREW
 [AU], et al)

CCI - [B21J15/32](#)

CUI - [B21J15/025](#) ; [B21J15/10](#) ;
[B23P11/00](#)

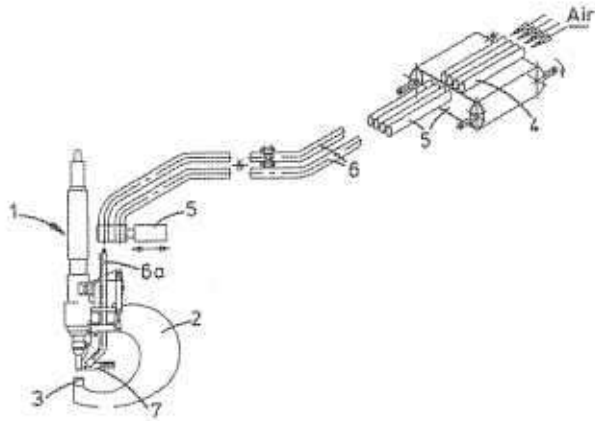
CCA - [Y10T29/49](#) ; [Y10T29/49943](#) ;
[Y10T29/49947](#) ; [Y10T29/49956](#) ;
[Y10T29/5118](#) ; [Y10T29/5343](#) ;
[Y10T29/53478](#) ; [Y10T29/5377](#)

CUA - [B65G47/1407](#)

PA - (A1 B2)
 HENROB LTD [GB]

TI - (A1)
METHOD FOR DELIVERING AND
 SETTING SELF-PIERCING RIVETS
 - (B2)
Method for delivering and
 setting self-piercing rivets

AB - (A1 B2)
 Fastener delivery apparatus for
 automatically selecting and
 delivering fasteners such as
 rivets to a setting tool. The
 fasteners are pre-loaded in
 a **package** and **dispense** via at
 least one fastener delivery **tube**
 that interconnects the setting



tool to a fastener feeder device. The fastener feeder device releases selected fasteners from the **package** into the delivery **tube**. The fasteners are transportable individually or in groups in the **tube** from the feeder device to the tool. A transfer station attached to the tool or the delivery **tube** transfers a fastener from the delivery apparatus into the tool, transfer station is adjacent to the tool so that a delivered fastener may be inserted by the transfer station into the tool and a second position in which it is clear of the tool so as to permit the tool or a portion thereof to move towards a workpiece to insert a smooth, rapid and reliable delivery of fasteners of various sizes and types to the nose of a setting tool in any particular order and provides all the fastener types for any particular work cycle.

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PN - [UA106954U](#) U 20160510

PR - UA2015201512004U 20151203

AP - UA2015201512004U 20151203

DT - I

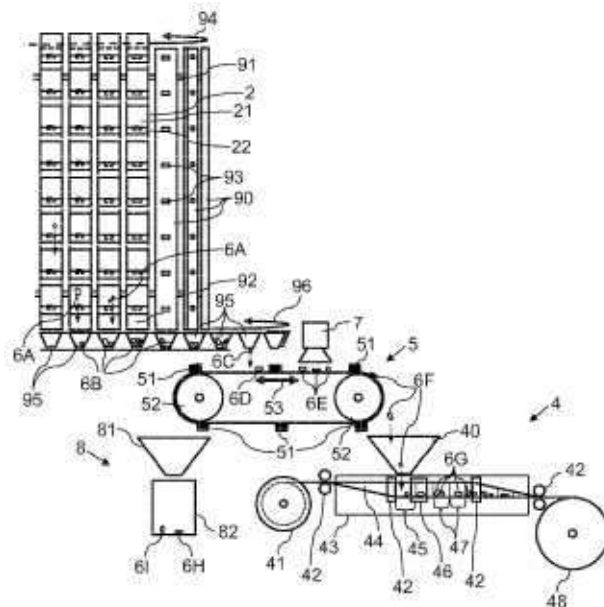
PA - SKALYHA MYKOLA MYKOLAIOVYCH [UA]; RUDYNETS MYKOLA VITALIIIOVYCH [UA]

TI - **METHOD** OF OPERATING A PYROLYSIS FURNACE WITH COUNTERFLOW GAS EXCHANGE

AB - A **method** of operating a pyrolysis furnace with counterflow gas exchange provides for the implementation of the process of pyrolysis of household and/or industrial waste in which in the combustion chamber of the furnace place is designed for burning raw materials and set fire to the last. Pre-combustion chamber equip the submitter of the air. In the upper part of this chamber put reflective disk with peripheral clearance to the inner walls of the furnace chamber. The combustion chamber equip the **package** is located equidistant around the circumference and with a gap of one relative to the other **tubes**, covered by transverse holders. In the central part of the combustion chamber is mounted vertically positioned tubular duct. The submitter of the air to perform in a curb valve inlet, the free end of which is placed above the upper opening of the air inlet and exit openings of the **package** is located equidistant **tubes**, performing the function of a **dispenser** of output gases.

13/206 © EPODOC / EPO

- PN - [US2016304229](#) A1 20161020
- PR - US201514689155 20150417
- AP - US201514689155 20150417
- DT - *; Rep
- CT - || R141 (A1)
[US2009133362](#) A1 20090528 [
] (BENTELE JOSEF [DE], et al);
[US2012296592](#) A1 20121122 [
] (LUCIANO JR ROBERT A [US], et
al)
- CCI - [B65B35/04](#) ; [B65B35/30](#) ;
[B65B35/44](#) ; [B65B37/02](#) ;
[B65B57/14](#) ; [B65B9/08](#)
- PA - CAREFUSION GERMANY 326
GMBH [DE]
- TI - **TUBE BLISTER PACKAGING
APPARATUS AND METHOD**
- AB - An apparatus for the production
of **tube** blister **packages**
includes **dispensing** stations and
a collection apparatus for
providing medication doses to a
blister **packaging** apparatus. The
blister **packaging** apparatus fills
the received medication doses,
by groups, into pockets of a **tube**
blister **package**. An inspection
buffer apparatus disposed
between the collection
apparatus and the
blister **packaging** apparatus
includes a buffer apparatus for
temporarily storing at least one
group of medication doses
intended for being filled into a
pocket, a sensor apparatus for
detecting an image and/or
predetermined properties of the
temporarily stored group of
medication doses, and an
evaluation and control device.
The evaluation and control
device determines whether the
temporarily stored group of
medication doses corresponds



to a group of medication doses
to be filled in, and if so, passes
the temporarily stored group on
to the blister **packaging**
apparatus.

14/206 © EPODOC / EPO

PN - [JP2016172667](#) A 20160929
PR - JP20150053709 20150317
AP - JP20150053709 20150317
DT - I
FI - C05G3/00&Z; C05G3/00&103; C05G5/00&Z
FT - 4H061/AA01; 4H061/DD04; 4H061/EE02; 4H061/EE35; 4H061/FF05; 4H061/FF06;
4H061/FF07; 4H061/HH03; 4H061/HH22; 4H061/HH42; 4H061/LL13
PA - KITAKYUSHU FLOWER RYUTYUU CENTER; TSUKAMOTO SHUNPEI
TI - SEMI-SOLIDIFIED FERTILIZER AND FERTILIZER PRODUCT USING THE SAME
AB - PROBLEM TO BE SOLVED: To develop a simple and easy fertilizer and fertilizer product
which can be used as a substitute for a typical fertilization **method**. SOLUTION: There is
provided a semi-solidified fertilizer containing a high molecule water absorption
polymer compatible fertilizer component and a high molecule water absorption resin
as a constitution component. There is provided a semi-solidified fertilizer further
containing a coloring agent and preferably an aromatic or a deodorant. There is
provided a semi-solidified fertilizer product which may mix a solid type fertilizer such
as powder or spherical type therein and may be accommodated into a **tube** container, a
mini cup container, a **dispenser**, a pocket for **packaging** or the like. EFFECT: By making a
fertilizer semi-solidified body, it becomes available to confirm clearly how a shape of
the semi-solidified fertilizer put on soil changes, a timing of fertilization is realized by
visual observation and it becomes very easy to use even for general consumers. Further
by coloring or the like the semi-solidified fertilizer, it exhibits very fashionable
appearance, difference between soil and fertilizer becomes clear and it becomes easy to
understand timing of fertilization by visual observation. SELECTED DRAWING: Figure 1

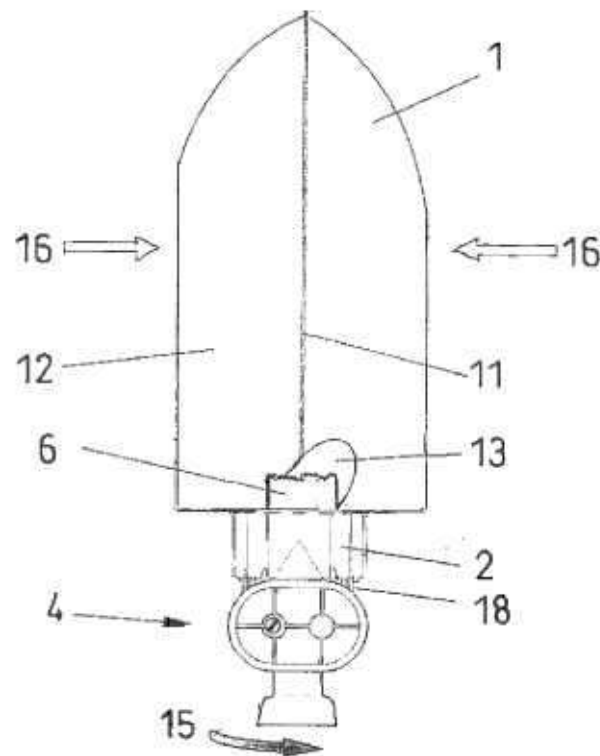
15/206 © EPODOC / EPO

PN - [GB2551544](#) A 20171227
PR - GB20160010853 20160621
AP - GB20160010853 20160621
DT - *; Rep
CT - || STSE (A)
[GB1561495](#) A 19800220 [] (ZIRISTOR AB);
[GB1487445](#) A 19770928 [] (ZIRISTOR AB);
[GB1394147](#) A 19750514 [] (TETRA PAK INT);
[US3850207](#) A 19741126 [] (LOLIGER W, et al);
[US2009081326](#) A1 20090326 [] (ADRIANSENS ERIC [FR], et al);
[JPH0296507](#) A 19900409 [] (TOPPAN PRINTING CO LTD)
CUI - [B65B9/20](#)

- CNOI - [B65B55/103](#)
- CUA - [B65B55/103](#)
- PA - STERAFILL LTD [GB]
- TI - Sterile **packaging** of fluent materials
- AB - A **method** of forming sterile individual **tubes** or sachets containing fluent material 4 by exposing the inner side of the tubular foil 1 to activated ionised hydrogen peroxide in mist or aerosol form as the **tube** or sachet is formed on the **packaging** machine. The apparatus is adapted to form a closed **tube** from a web around a former 2, and comprises a means to inject a mist activated ionised hydrogen peroxide and a means to extract the mist. Preferably the **dispensing tube** provides a stepped construction, allowing mist to flow from coaxial pipe 2, sterilise the foil and then reverse direction as it is extracted by an inner **tube** 6. In an embodiment, the inner **tube** 6 has helical ridges 12 in order to ensure complete sterilisation.

16/206 © EPODOC / EPO

- PN - [US2016263599](#) A1 20160915
- PR - DE201310221706
20131025; WO2014EP70888
20140930
- AP - US201415031828 20140930
- DT - **
- CT - || R141 (A1)
[US2014048557](#) A1 20140220 [] (BARRON DAN [CH]);
[US2011031273](#) A1 20110210 [] (MACLER JEFFREY E [US]);
[US5971207](#) A 19991026 [] (MCDONOUGH CHARLES M [US], et al);
[US5934509](#) A 19990810 [] (NISS JAN-ANDERS [SE]);
[US5205440](#) A 19930427 [] (MATSUSHITA KAORU [JP]);
[US4921135](#) A 19900501 [] (PLEET LAWRENCE [US])
- CCI - [B05B9/0416](#) ; [B05B9/043](#) ;
[B05B9/047](#) ; [B05B11/007](#) ;
[B05B11/0072](#) ; [B05B11/3047](#)
- CUI - [B05B11/0043](#)
- PA - BOSCH GMBH ROBERT [DE]
- TI - **METHOD FOR DISPENSING LIQUID**
INGREDIENTS FROM A TUBULAR
BAG IN A METERED MANNER, AND
MEANS FOR CARRYING OUT
THE **METHOD**
- AB - The invention relates to



a **method** for **dispensing** viscous or pasty ingredients (12), which are **packaged** in an aseptic manner, from a tubular bag (1), which is closed prior to the first use, by means of a disposable pump (4) attached to the bag. The disposable pump (4) has an inlet (5) with a cutting element (6), and a nozzle (2) with a flange (3) is welded onto the tubular bag (1). The disposable pump (4) is rotated relative to the nozzle (2), and the tubular bag (1) is thereby cut open. A valve (9) is arranged in the region of the outlet opening of an outlet **tube** (8) of the pump, and the disposable pump (4) is operated after the initial opening process until a freely selectable volume has exited the closing valve. The disposable pump (4) is then operated in the opposite rotational direction in order to suction ingredients (12) present on or in the region of the valve (9) back into the outlet **tube** (8). In the process, the valve (9) reaches or remains in the closed valve state. A valve (9) is proposed for carrying out the **method**. The valve is arranged in the outlet **tube** (8) and comprises a membrane (93, 191) which is sealingly mounted in a sliding manner or can be inverted. Using the **method**, the ingredients (12) can be **dispensed** in a metered manner from a tubular bag (1), in which the ingredients are aseptically **packaged**, into virtually aseptic containers until the ingredients are practically completely used.

PNFP - AU2016208413B B2 20171102

PR - AU20160208413 20160729; AU20140201292 20140307; AU20080296269 20080904

AP - AU20160208413 20160729

DT - I

CT - || STSE (B2)
[US6759072](#) B1 20040706 [] (GUTWEIN ROGER WILLIAM [US], et al);
[WO2005111955](#) A1 20051124 [] (FONTERRA CO OPERATIVE GROUP [NZ], et al)

PA - (A1)
COCA COLA CO
- (B2)
THE COCA-COLA COMPANY

TI - (A1 B2)
Systems and **methods** for facilitating consumer-**dispenser** interactions

AB - (A1 B2)
Embodiments of the invention can include systems and **methods** for consumer-**dispenser** interactions. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a user interface operable to interact with a consumer and receive at least one input from the consumer. The product **dispenser** can also include a controller comprising a set of instructions operable to receive a request from a consumer to **dispense** a custom product. In addition, the controller can further comprise a set of instructions operable to present via the user interface a at least one of a list of selectable product ingredients or adjustable product formulation parameters. Moreover, the controller can further comprise a set of instructions operable to **dispense** a product based at least in part on one or more of the selectable ingredients or selected formulation parameters. Data Processing Recipes! 100 Resource / Server Formulations/ 126 **Methods** Of Making Database etwork (LA, WAN, Internet, etc. Operational 104 132 , Database . ____ 181 02A 11 8A Ingredient Matrix 116A Data Storage Reader I ' Product Forming Ingredient **Package** 1 6B Device / Memory Scanner I Writer Product Forming Ingredient **Package** 110Q 7/116N Controller Product Forming Ingredient **Package** 1 IR 8Q Product Forming Ingredient **Package** 160 Reader/ Carbonated Water Supply SScanner IWriter Sweetener 116P CWater Supply 116Q **Tubes** 120, 106A Pumps/ 122 Velves) **Tubes**12 MixedPour Printer 136 -N , 134 - - Product le /**Dispenser**

18/206 © EPODOC / EPO

PN - [AU2016203882](#) A1 20160630

PNFP - AU2016203882B B2 20180215

PR - AU20160203882 20160609; AU20140201133 20140303; AU20080296239 20080904

AP - AU20160203882 20160609

DT - I

PA - (A1)
COCA COLA CO
- (B2)
THE COCA COLA COMPANY

TI - (A1 B2)
Beverage **dispenser**

AB - (A1 B2)

Embodiments of the invention can include systems and **methods** for **dispensing** consumable products. One embodiment of the invention can provide a product **dispenser**. The product **dispenser** can include an ingredient matrix operable to receive a plurality of product ingredients. In addition, the product **dispenser** can include a controller in communication with the ingredient matrix, and operable to execute a set of instructions to receive product data associated with the plurality of product ingredients. Moreover, the controller can further comprise a set of instructions to track usage of the plurality of product ingredients when at least one product is **dispensed**. Furthermore, the controller can further comprise a set of instructions to update the product data during or after **dispensing** of a product or installation of one or more product ingredients in the ingredient matrix. Data Processing Recipes! 100 Resource / Server Formulations! 126 **Methods** Of Making Database etwork (LAN, Internet, etc. Opr30oa 132 Database I1A Ingredient Matrix 116A Data Storage Reader / Product Forming Ingredient **Package** 6B Device / Memory 110 / Writer (Product Forming Ingredient **Package** 1160 Controller Product Forming Ingredient **Package** Ln 112 (Product Forming Ingredient **Package** 116 Reader I Carbonated Water Supply d Writer Sweetener 11 6P Water Supply 16Q **Tubes** 120, Printer16 1 06A Pumps/ 122 Valves Nozzle Mixed Pour Printer Product **Dispenser** I102N WScanner 12 Fig. 1 .1Writer 138

19/206 © EPODOC / EPO

PN - [AU2016202265](#) A1 20160512

PR - AU20130251265 20131101; AU20160202265 20160412

AP - AU20160202265 20160412

DT - I

PA - COCA COLA CO

TI - Systems and **methods** for facilitating consumer-**dispenser** interactions

AB - Embodiments of the invention can include systems and **methods** for facilitating consumer-**dispenser** interactions. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a reader configured to read machine readable item. In addition, the product **dispenser** can include a controller in communication with the reader, and operable to execute a set of instructions to receive information from the machine readable item associated with a consumer via the reader. Moreover, the controller can be further operable to execute a set of instructions to configure at least part on the information from the machine readable item, and **dispense** a product. Data Processing Recipes! 100 Resource / Server Formulations! 126 **Methods** Of Making Consumer Database Database etwork (LAN Internet, etc. 10Oeain 104 3 Database 108 102A 118A Ingredient Matrix 116A Data Storage Product Forming Ingredient **Package** 116B DeviceI/MernoryScne116 1Writer Product Forming Ingredient **Package** ,16C Controlled . Product Forming Ingredient **Package** Product Forming Ingredient **Package** 1160 Reader / Carbonated Water Supply Scanner' Writer Sweetener 116P Water Supply 116Q ID Reader / Reaner **Tubes** 120, 106A Pumps! 122 Valves **Tubes** Nozzle Mixed Pour Printer 140 Product Reader / NDispenser 1 02N Scanner Fig. 1 Writer 138

20/206 © EPODOC / EPO

PN - [US2016096644](#) A1 20160407

PNFP - US9505511 B2 20161129

PR - US201514971269
20151216; US201314032606
20130920; US201261703328P
20120920

AP - US201514971269 20151216

DT - *; Rep

CT - || R141 (A1)
[US9242848](#) B2 20160126 [
] (MURRAY R CHARLES [US])
- || STSE (B2)
[US9242848](#) B2 20160126 [
] (MURRAY R CHARLES [US])

CCI - [B65B31/042](#) ; [B65B31/044](#) ;
[B65B39/04](#)

CUI - [B05B1/00](#) ; [B67D7/42](#)

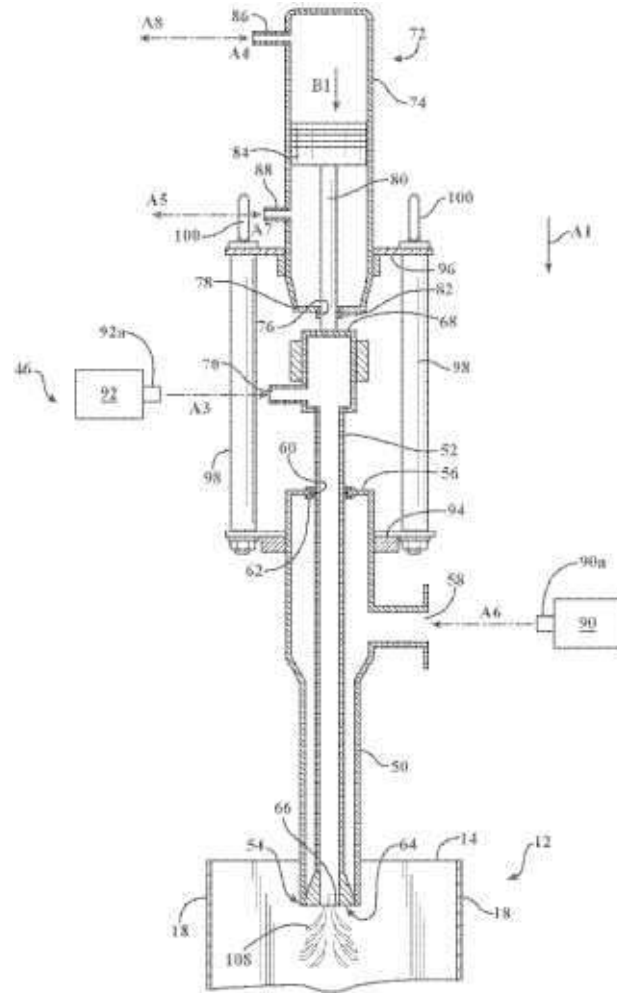
CQI - [B65B39/12](#) ; [B65B39/145](#) ;
[B65B3/04](#)

CCA - [B65B3/18](#)

PA - (A1 B2)
POUCH PAC INNOVATIONS LLC
[US]

TI - (A1)
DIVING NOZZLE FOR FILLING A
PRODUCT INTO A **PACKAGE** AND
FOR GAS PURGING AND **METHOD**
FOR THE SAME
- (B2)
Diving nozzle for filling a
product into a **package** and for
gas purging and **method** for the
same

AB - (A1 B2)
The diving nozzle includes a
first **tube** and a second **tube**. The
first **tube** having a first inlet and
a first outlet. The first inlet
connected to a supply of a first
material. The first outlet
operable to **dispense** the first
material into the **package**. The
second **tube** is moveable with
respect to the first **tube**. The
second **tube** having a second
inlet and a second outlet. The



second inlet connected to a supply of a second material. The second outlet operable to **dispense** the second material into the **package**. The first material is one of the product and the purging gas, the second material is the other of the product and the purging gas.

- 21/206** © EPODOC / EPO
- PN - [CN105257994](#) A 20160120
- PR - CN20151784903 20151116
- AP - CN20151784903 20151116
- DT - I
- CT - || STSE (A)
[CN201757305U](#) U 20110309 [A] (NINGBO SUNPU OPTO SEMICONDUCTOR CO LTD)
 [A] 1-2
 * 全文 *;
[CN102135248](#) A 20110727 [Y] (JIAN FU)
 [Y] 1-2
 * 说明书第0001-0015段, 附图图1-2 *;
[CN102980090](#) A 20130320 [Y] (WANG YUANCHENG)
 [Y] 1-2
 * 说明书第0001-0019段, 附图图1-6 *;
[CN103247743](#) A 20130814 [A] (ANHUI SAN AN PHOTOELECTRIC CO LTD)
 [A] 1-2
 * 全文 *;
[CN103311410](#) A 20130918 [A] (SUZHOU JINKE XINHUI PHOTOELECTRIC TECHNOLOGY CO LTD)
 [A] 1-2
 * 全文 *;
[CN204141395U](#) U 20150204 [Y] (MIANYANG HONGYE LIGHTING ELECTRIC APPLIANCE CO LTD)
 [Y] 2
 * 说明书第0001-0050段, 附图图1-3 *;
[CN204611421U](#) U 20150902 [Y] (CHONGQING XINTIANYANG LIGHTING TECHNOLOGY CO LTD)
 [Y] 1-2
 * 说明书第0001-0036段, 附图图1-4 *
- CNOI - [F21V7/22](#) ; [F21V19/001](#) ; [F21V23/005](#)
- PA - JIANGXI HUABAI ENERGY SAVING LIGHTING TECHNOLOGY COLLABORATIVE INNOVATION CO LTD
- TI - **Method** for improving luminous efficacy of optical engine
- AB - The invention discloses a **method** for improving luminous efficacy of an optical engine. The optical engine comprises an aluminum substrate, wherein a plurality of LED (Light-Emitting Diode) chips, an AC (Alternating Current) input N bonding pad and an AC input

L bonding pad are arranged on the aluminum substrate; the optical engine further comprises an LED current control chip and an SMD component, and the SMD (Surface Mount Device) component 5 is arranged on the aluminum substrate through SMT (Surface Mounted Technology); the integrity of the LED chips and a driver is realized; a plurality of copper **tubes** are embedded in the aluminum substrate; the copper **tubes** are filled with heat-conduction silica gel; and heat generated by the LED chips is rapidly transferred to the aluminum substrate through the heat-conduction silica gel. After the LED chips are subjected to a die bonding process on a silica gel surface, a layer of large-particle and high-gloss fluorescent powder is sprayed on the surface of each LED chip; and lens-shaped high-transparency **packaging** silica gel is **dispensed** on the surface of each layer of fluorescent powder. By adopting the **method**, an effect of fast heat dissipation is realized; and the reliability of the LED chips is improved. The emergent light angle is enlarged, so that the luminous efficacy of the optical engine is further improved. The LED chips and the driver are integrated, so that an assembly technological step is omitted, and the production efficiency is improved.

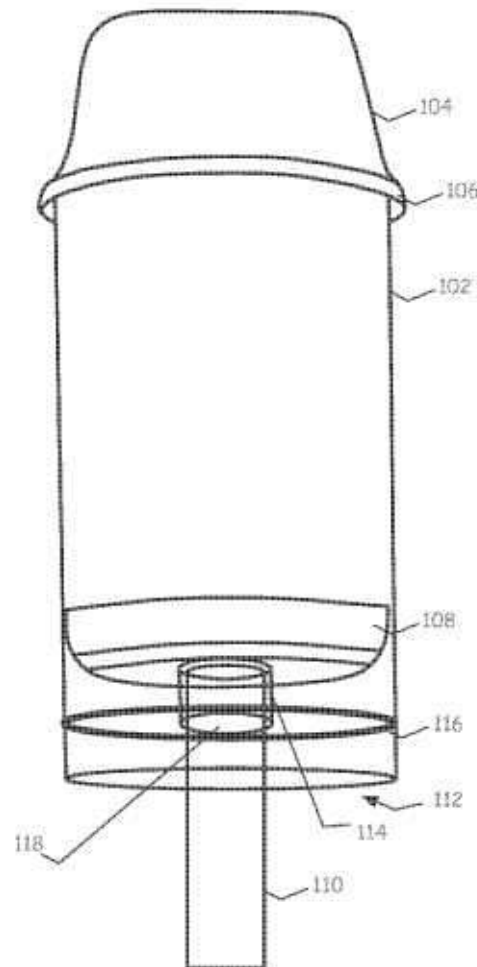
22/206 © EPODOC / EPO

PN - [US2015274341](#) A1 20151001
 PR - US201414228150 20140327
 AP - US201414228150 20140327
 DT - *; Rep
 CT - || R141 (A1)
[US4352242](#) A 19821005 [] (PLET CATHERINE);
[US5111973](#) A 19920512 [] (MUELLER MARTIN [US]);
[US6261611](#) B1 20010717 [] (BERMAN ROBERT E [US]);
[US2003008041](#) A1 20030109 [] (BUDWIG CHRISTOPHER [US], et al);
[US7007829](#) B1 20060307 [] (MUELLER MARTIN J [US], et al);
[US2012027895](#) A1 20120202 [] (BACH LARRY A [US])
 CTNP - || R141 (A1)
 [] "A Piece of Cake-A look at the latest and greatest cake trends" by Posh Tot Events, LLC

Posted March 7, 2012

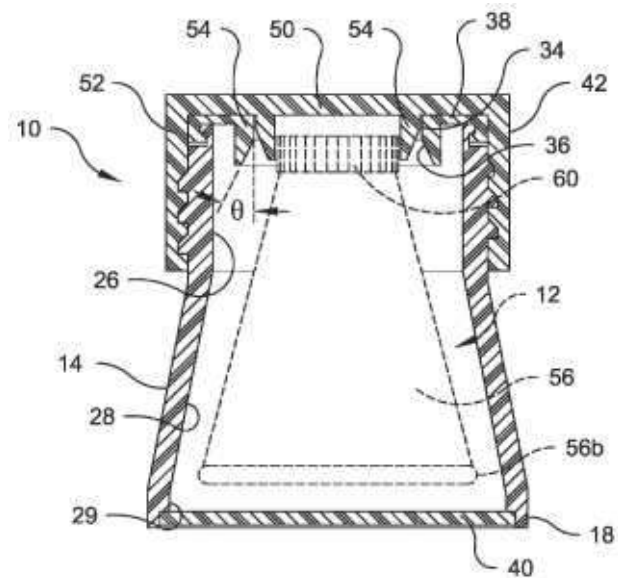
Pages 1-3,

CCI - [B65D83/0022](#)
 CCA - [B65B5/10](#) ; [B65B2220/14](#)
 PA - MILLER JAMES [US]; SWEET MONKEY GA LLC [US]



- TI - **METHOD FOR PACKAGING AND DISPENSING OF FOOD ITEMS**
- AB - A **method** of **packaging** food items, such as cupcake type food items, into a **dispenser** for future consumption. The **dispenser** includes a hollow vessel, such as a **tube**, with openings at both ends. The food items are placed within the hollow vessel and a cap is placed over one end and a **dispensing** mechanism is placed over the opposing end. By removing the cap and actuating the **dispensing** mechanism, the food items are forced out of the **tube** for consumption.

- 23/206 © EPODOC / EPO
- PN - [CN104936867](#) A 20150923
- PR - WO2013US77766
20131226; US201213729195
20121228
- AP - CN2013868126 20131226
- DT - I
- CT - || STSE (A)
[US2556584](#) A 19510612
[YX] (JOSEPH HOFMANN FRANK)
[Y] 5,15,18
* 说明书第2-3栏以及附图1-3 *
[X] 17,19-20;
[US6386405](#) B1 20020514
[A] (KARS HERMAN P [NL], et al)
[A] 1-20
* 全文 *;
[US2005054991](#) A1 20050310
[A] (TOBYN MICHAEL JOHN [GB], et al)
[A] 1-20
* 全文 *;
[WO2008102066](#) A1 20080828
[YX] (LE FAUCHEUR ROGER [FR], et al)
[Y] 5,15,18
* 说明书第2-3页以及附图1-2 *
[X] 1-4,7-14,16
- CCI - [B65D77/06](#) ; [B65D35/56](#)



- CCA - [B65D2215/00](#)
- PA - GALDERMA RES & DEV
- TI - Combination child-resistant **package** and collapsible **tube**, and **method** of using same
- AB - A combination includes a child-resistant **package** (10) and a collapsible **tube** (12) removably positionable therein. A sidewall (20) of a body (14) of the **package** has an interior surface (22) and an opposing exterior surface (24). A cavity (30) is defined by the body. An opening (32) is positioned proximate an open first end of the body. A bottom wall (40) is positioned proximate an open second end (18) of the body. A cap (42) is removably mounted onto at least a portion of the first end of the body. The collapsible **tube** is surrounded by the body, the bottom wall and the cap when the cap is mounted onto at least a portion of the first end of the body. The collapsible **tube** includes a generally flexible housing (56) defining a cavity (58) for holding a substance to be **dispensed** from the housing. A closure (60) is removably mounted onto the housing.

PN - [AU2013370396](#) A1 20150702

PR - US201213729195
20121228; WO2013US77766
20131226

AP - AU20130370396 20131226

DT - I

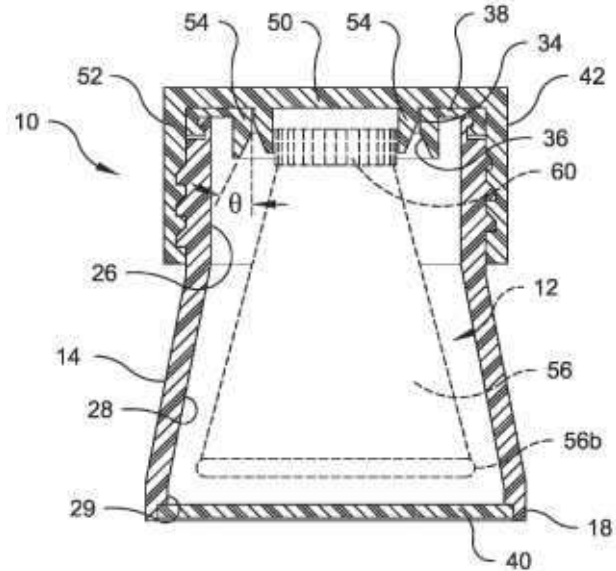
CCI - [B65D77/06](#) ; [B65D35/56](#)

CCA - [B65D2215/00](#)

PA - GALDERMA RES & DEV

TI - Combination child-resistant **package** and collapsible **tube**, and **method** of using same

AB - A combination includes a child-resistant **package** (10) and a collapsible **tube** (12) removably positionable therein. A sidewall (20) of a body (14) of the **package** has an interior surface (22) and an opposing exterior surface (24). A cavity (30) is defined by the body. An opening (32) is positioned proximate an open first end (16) of the body. A bottom wall (40) is positioned proximate an open second end (18) of the body. A cap (42) is removably mounted onto at least a portion of the first end of the body. The collapsible **tube** is surrounded by the body, the bottom wall and the cap when the cap is mounted onto at least a portion of the first end of the body. The collapsible **tube** includes a generally flexible housing (56) defining a cavity (58) for holding a substance to be **dispensed** from the housing. A closure (60) is removably mounted onto the housing.



PN - [CA2895382](#) A1 20140703

PR - US201213729195
20121228; WO2013US77766
20131226

AP - CA20132895382 20131226

DT - I

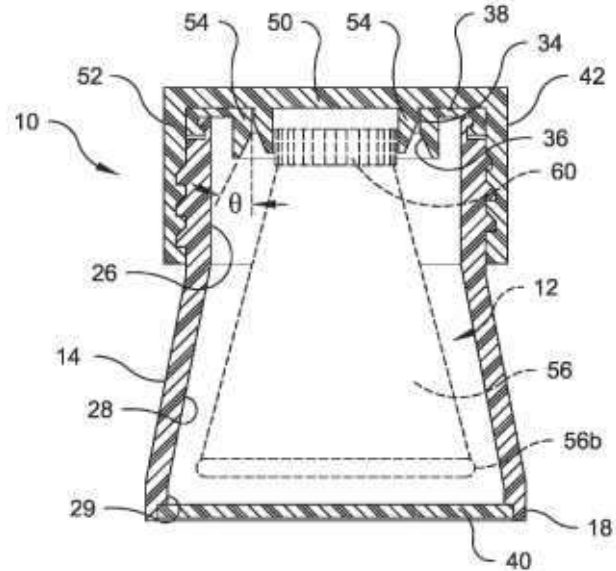
CCI - [B65D77/06](#) ; [B65D35/56](#)

CCA - [B65D2215/00](#)

PA - GALDERMA RES & DEV [FR]

TI - COMBINATION CHILD-
RESISTANT **PACKAGE** AND
COLLAPSIBLE **TUBE**, AND **METHOD**
OF USING SAME

AB - A combination includes a child-
resistant **package** (10) and a
collapsible **tube** (12) removably
positionable therein. A sidewall
(20) of a body (14) of the **package**
has an interior surface (22) and
an opposing exterior surface
(24). A cavity (30) is defined by
the body. An opening (32) is
positioned proximate an open
first end (16) of the body. A
bottom wall (40) is positioned
proximate an open second end
(18) of the body. A cap (42) is
removably mounted onto at least
a portion of the first end of the
body. The collapsible **tube** is
surrounded by the body, the
bottom wall and the cap when
the cap is mounted onto at least
a portion of the first end of the
body. The collapsible **tube**
includes a generally flexible
housing (56) defining a cavity
(58) for holding a substance to
be **dispensed** from the housing. A
closure (60) is removably
mounted onto the housing.



PN - [CN104617058](#) A 20150513

PR - CN2015135298 20150123

AP - CN2015135298 20150123

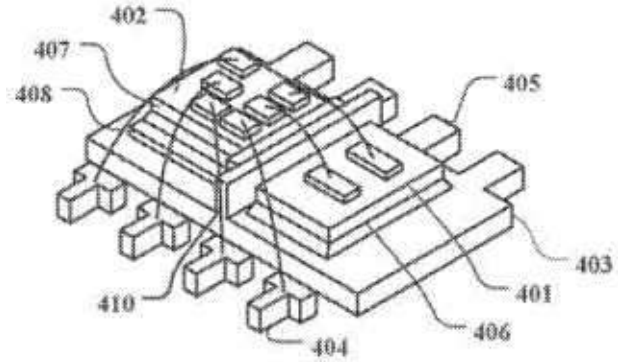
DT - I

CT - || STSE (A)
[US5012322](#) A 19910430
[X] (GUILLOTTE PAUL A [US], et al)
[X] 1-3,13, 15
* 参见说明书第2栏第50行至第4
栏第29行、说明书附图1 *;
[US5965947](#) A 19991012
[YX] (NAM SHI-BAEK [KR], et al)
[Y] 5-11,16-17
* 说明书第1栏第31行至第8栏第
8行、说明书附图1-5 *
[X] 1-4,12-15,18;
[CN1862809](#) A 20061115
[A] (SHENGQUN
SEMICONDUCTOR CO LTD [CN])
[A] 1-18
* 全文 *;
[US2009166826](#) A1 20090702
[Y] (JANDUCAYAN OMAR A [PH],
et al)
[Y] 5-8,16
* 说明书第[0014]-[0022]段、说
明书附图1-4 *;
[CN103887190](#) A 20140625
[Y] (INTERSIL AMERICAS LLC)
[Y] 9-11,17
* 说明书第[0070]-[0072]段、说
明书附图 图1A-图1B *

CCI - [H01L23/49503](#) ; [H01L23/49513](#) ;
[H01L23/49562](#) ; [H01L23/49575](#) ;
[H01L25/16](#)

CLC - [H01L2224/48091](#) ,
[H01L2924/00014](#) , ADD
- [H01L2224/73265](#) ,
[H01L2224/32245](#) ,
[H01L2224/48247](#) ,
[H01L2924/00](#) , ADD
- [H01L2924/181](#) ,
[H01L2924/00012](#) , ADD

CCA - [H01L2924/181](#) ;
[H01L2224/05553](#) ;
[H01L2224/27013](#) ;
[H01L2224/32245](#) ;



[H01L2224/48091](#) ;

[H01L2224/48137](#) ;

[H01L2224/48247](#) ;

[H01L2224/73265](#)

- PA - SILERGY SEMICONDUCTOR
TECHNOLOGY SUZHOU CO LTD
- TI - **Package** structure for power
converter and
manufacture **method** thereof
- AB - The invention discloses
a **package** structure and
a **package method** for a power
converter. The **package** structure
for the power converter
comprises a **tube** core cushion,
an insulated bonding layer and a
conductive bonding layer which
are located on the **tube** core
cushion, a control circuit **tube**
core located on the insulated
bonding layer and a power
device **tube** core located on the
conductive bonding layer,
wherein the insulated bonding
layer and the conductive
bonding layer are separated
from each other, the insulated
bonding layer comprises a first
insulated bonding layer formed
on the reverse side of the control
circuit **tube** core through a back
coating technology and a second
insulated bonding layer formed
on the surface of the **tube** core
cushion through an
adhesive **dispensing** technology,
and the first insulated bonding
layer is contacted with the
second insulated bonding layer.
The **package** structure for the
power converter uses the **tube**
core cushion to provide a good
heat dissipation path to the
power device **tube** core, and
simultaneously uses the
insulated bonding layer to
achieve high voltage isolation
between the control circuit **tube**

core and the **tube** core cushion.

27/206 © EPODOC / EPO

PN - [US2015052732](#) A1 20150226

PNFP - US9352383 B2 20160531

PR - US201414478764
20140905; GB19980016796
19980803; US20100941539
20101108; US20090356225
20090120; US20050102335
20050408; US20010762200
20010720; WO1999GB02545
19990803

AP - US201414478764 20140905

DT - **

CT - || STSE (B2)
[US8850685](#) B2 20141007 [
] (CRAYTHORN RUPERT ANDREW
[AU], et al)
- || R141 (A1)
[US8850685](#) B2 []

CCI - [B21J15/32](#)

CUI - [B21J15/025](#) ; [B21J15/10](#) ;
[B23P11/00](#)

CCA - [Y10T29/49](#) ; [Y10T29/49943](#) ;
[Y10T29/49947](#) ; [Y10T29/49956](#) ;
[Y10T29/5118](#) ; [Y10T29/5343](#) ;
[Y10T29/53478](#) ; [Y10T29/5377](#)

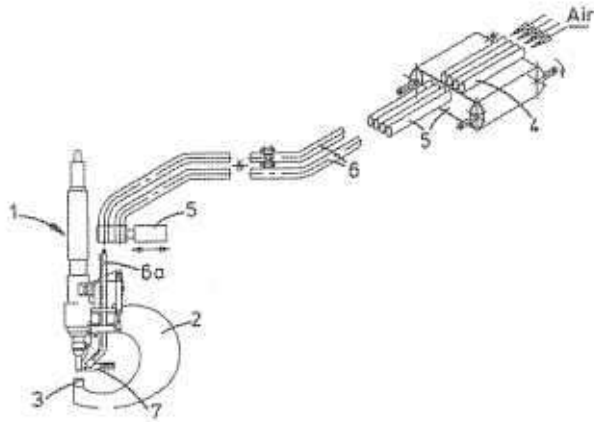
CUA - [B65G47/1407](#)

PA - (A1 B2)
HENROB LTD [GB]

TI - (A1)
FASTENING MACHINES

- (B2)
Method for delivering and
setting self-piercing rivets

AB - (A1 B2)
Fastener delivery apparatus for
automatically selecting and
delivering fasteners such as
rivets to a setting tool. The
fasteners are pre-loaded in
a **package** and **dispense** via at
least one fastener delivery **tube**
that interconnects the setting
tool to a fastener feeder device.



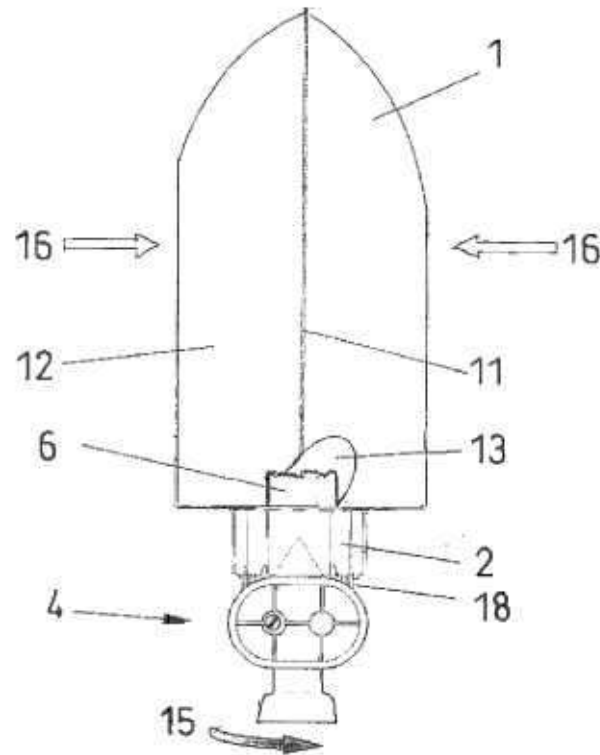
The fastener feeder device releases selected fasteners from the **package** into the delivery **tube**. The fasteners are transportable individually or in groups in the **tube** from the feeder device to the tool. A transfer station attached to the tool or the delivery **tube** transfers a fastener from the delivery apparatus into the tool, transfer station is adjacent to the tool so that a delivered fastener may be inserted by the transfer station into the tool and a second position in which it is clear of the tool so as to permit the tool or a portion thereof to move towards a workpiece to insert a smooth, rapid and reliable delivery of fasteners of various sizes and types to the nose of a setting tool in any particular order and provides all the fastener types for any particular work cycle.

PN - [WO2015058933](#) A1 20150430
 PR - DE201310221706 20131025
 AP - WO2014EP70888 20140930
 DT - **
 CT - |EP| ISR (A1)
 [WO2013135434](#) A1 20130919
 [YA] (BOSCH GMBH ROBERT [DE])
 [Y] 1-8,11-14
 * the whole document *
 [A] 9,10;
 [US2012248149](#) A1 20121004
 [YA] (PELFREY KEITH [US])
 [Y] 1-4
 * paragraph [0039] -
 paragraph [0040] *
 [A] 5-14;
 [US2011121028](#) A1 20110526
 [YA] (RUSCH GERALD A [US])
 [Y] 5-8,11-14
 * paragraph [0025] *
 [A] 1-4,9,10;
 [US2005087555](#) A1 20050428
 [YA] (HATTON JASON D [US], et al)
 [Y] 5-8,11-14
 * figures 14-16,18,19 *
 [A] 1-4,9,10

 CCI - [B05B9/0416](#) ; [B05B9/043](#) ;
 [B05B9/047](#) ; [B05B11/007](#) ;
 [B05B11/0072](#) ; [B05B11/3047](#)

 CUI - [B05B11/0043](#)
 PA - BOSCH GMBH ROBERT [DE]
 TI - **METHOD FOR DISPENSING LIQUID**
 INGREDIENTS FROM A TUBULAR
 BAG IN A METERED MANNER, AND
 MEANS FOR CARRYING OUT
 THE METHOD

 AB - The invention relates to
 a **method for dispensing** viscous
 or pasty ingredients (12), which
 are **packaged** in an aseptic
 manner, from a tubular bag (1),
 which is closed prior to the first
 use, by means of a disposable
 pump (4) attached to the bag. The
 disposable pump (4) has an inlet
 (5) with a cutting element (6),
 and a nozzle (2) with a flange (3)



is welded onto the tubular bag (1). The disposable pump (4) is rotated relative to the nozzle (2), and the tubular bag (1) is thereby cut open. A valve (9) is arranged in the region of the outlet opening of an outlet **tube** (8) of the pump, and the disposable pump (4) is operated after the initial opening process until a freely selectable volume has exited the closing valve. The disposable pump (4) is then operated in the opposite rotational direction in order to suction ingredients (12) present on or in the region of the valve (9) back into the outlet **tube** (8). In the process, the valve (9) reaches or remains in the closed valve state. A valve (9) is proposed for carrying out the **method**. The valve is arranged in the outlet **tube** (8) and comprises a membrane (93, 191) which is sealingly mounted in a sliding manner or can be inverted. Using the **method**, the ingredients (12) can be **dispensed** in a metered manner from a tubular bag (1), in which the ingredients are aseptically **packaged**, into virtually aseptic containers until the ingredients are practically completely used.

29/206 © EPODOC / EPO

PN - [CN103943517](#) A 20140723

PR - CN20141169915 20140425

AP - CN20141169915 20140425

DT - I

CNOI - [H01L25/00](#) ; [H01L33/48](#)

PA - ZHEJIANG HAOLIGHT PHOTOELECTRICITY TECHNOLOGY CO LTD

TI - LED **packaging method** employing diode implanted temperature sampling

AB - The invention relates to an LED **packaging method** employing diode implanted temperature sampling. According to the **method**, a lens, an LED **tube** core, a substrate

30/206 © EPODOC / EPO

PN - [US2014183223](#) A1 20140703

PNFP - US9499310 B2 20161122

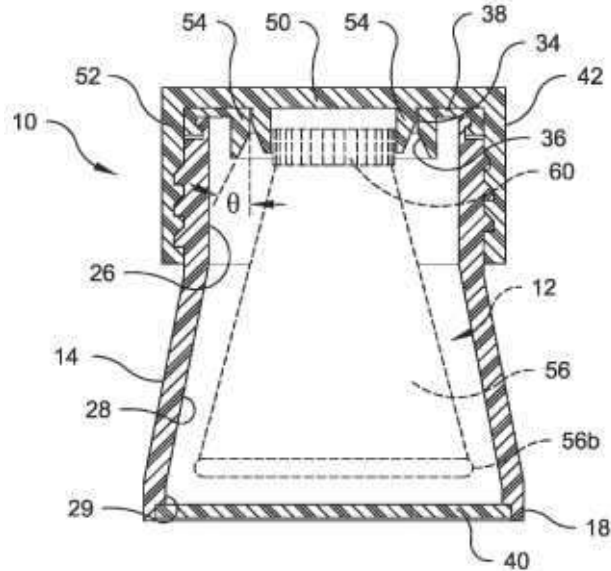
PR - US201213729195 20121228

AP - US201213729195 20121228

DT - *; Rep

CT - || R141 (A1)
 [US3540628](#) A 19701117 [
] (TROSCH ARMIN);
 [US4706827](#) A 19871117 [
] (CABERNOCH JAMES L [US], et
 al);
 [US4215785](#) A 19800805 [
] (SCHWAIGER JOSEF [US]);
 [US6616000](#) B1 20030909 [
] (RENN CHARLES JOHN [US]);
 [US3275180](#) A 19660927 [
] (OPTNER PHILIP S, et al);
 [US4174051](#) A 19791113 [
] (EDWARDS EDGAR B [US], et al)

- || STSE (B2)
 [US3275180](#) A 19660927 [
] (OPTNER PHILIP S, et al);
 [US3540628](#) A 19701117 [
] (TROSCH ARMIN);
 [US4174051](#) A 19791113 [
] (EDWARDS EDGAR B [US], et al);
 [US4215785](#) A 19800805 [
] (SCHWAIGER JOSEF [US]);
 [US4706827](#) A 19871117 [
] (CABERNOCH JAMES L [US], et al)



	] (CABERNOCH JAMES L [US], et al); US6616000 B1 20030909 [] (RENZ CHARLES JOHN [US])
CCI	- B65D77/06 ; B65D35/56
CCA	- B65D2215/00
PA	- (A1) GALDERMA R & D [FR] - (B2) GALDERMA R&D [FR]; GALDERMA RES & DEV [FR]
TI	- (A1) COMBINATION CHILD-RESISTANT PACKAGE AND COLLAPSIBLE TUBE, AND METHOD OF USING SAME - (B2) Combination child-resistant package and collapsible tube, and method of using same
AB	- (A1 B2) A combination includes a child-resistant package and a collapsible tube removably positionable therein. A sidewall of a body of the package has an interior surface and an opposing exterior surface. A cavity is defined by the body. An opening is positioned proximate an open first end of the body. A bottom wall is positioned proximate an open second end of the body. A cap is removably mounted onto at least a portion of the first end of the body. The collapsible tube is surrounded by the body, the bottom wall and the cap when the cap is mounted onto at least a portion of the first end of the body. The collapsible tube includes a generally flexible housing defining a cavity for holding a substance to be dispensed from the housing. A closure is removably mounted onto the housing.

31/206 © EPODOC / EPO

PN - [AU2014201292](#) A1 20140327

PR - AU20080296269 20080904; AU20140201292 20140307

AP - AU20140201292 20140307

DT - I

PA - COCA COLA CO

TI - Systems and **methods** for facilitating consumer-**dispenser** interactions

AB - Embodiments of the invention can include systems and **methods** for consumer-**dispenser** interactions. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a user interface operable to interact with a consumer and receive at least one input from the consumer. The product **dispenser** can also include a controller comprising a set of instructions operable to receive a request from a consumer to **dispense** a custom product. In addition, the controller can further comprise a set of instructions operable to present via the user interface a at least one of a list of selectable product ingredients or adjustable product formulation parameters. Moreover, the controller can further comprise a set of instructions operable to **dispense** a product based at least in part on one or more of the selectable ingredients or selected formulation parameters. Data Processing Recipes! 100 Resource / Server Formulations/ 126 **Methods** Of Making Database etwork (LA, WAN, Internet, etc. Operational 104 132 , Database . ____ 181 02A 11 8A Ingredient Matrix 116A Data Storage Reader I ' Product Forming Ingredient **Package** 1 6B Device / Memory Scanner I Writer Product Forming Ingredient **Package** 110Q 7/116N Controller Product Forming Ingredient **Package** 1 IR 8Q Product Forming Ingredient **Package** 160 Reader/ Carbonated Water Supply SScanner IWriter Sweetener 116P CWater Supply 116Q **Tubes** 120, 106A Pumps/ 122 Velves) **Tubes**12 MixedPour Printer 136 -N , 134 - - Product le /**Dispenser** Scanner 102N Fig. 1 pWrier 133

32/206 © EPODOC / EPO

PN - [AU2013257416](#) A1 20140327

PNFP - AU2013257416B B2 20160310

PR - AU20080296270 20080904; AU20130257416 20131108

AP - AU20130257416 20131108

DT - I

CT - || STSE (B2)
[US2006081653](#) A1 20060420 [] (BOLAND MICHAEL J [NZ], et al)
[WO2006016241](#) A1 20060216 [] (DOGLIONI MAJER LUCA [IT])
[US2006043111](#) A1 20060302 [] (JENNINGS CRAIG [US], et al)
[WO2005091236](#) A1 20050929 [] (GRIFFITS JOHN PHILIP [AU], et al)

PA - (A1 B2)
COCA COLA CO

TI - (A1 B2)
Systems and **methods** for providing dynamic ingredient matrix reconfiguration in a product **dispenser**

AB - (A1 B2)

Embodiments of the invention include systems and **methods** for providing dynamic ingredient matrix reconfiguration in a drink **dispenser** (100). In one embodiment, a system can include an ingredient matrix (112) operable to receive one or more ingredient **packages** (114 A-Q) within respective locations. In addition, the system can include a controller (500) in communication with the ingredient matrix and operable to execute a set of instructions operable to receive information associated with one or more ingredient **packages**. Furthermore the controller can be operable to determine at least one location within the ingredient matrix for selected one or more ingredient **packages**, and output the at least one location within the ingredient matrix for insertion of selected one or more ingredient **packages**. Ingredient Matrix 14A Product Forming Ingredient **Package**-) 14g Product Forming Ingredient **Package** 1 14C Product Forming Ingredient **Package** Controller Product Forming Ingredient **Package** i 140 C Carbonated Water Supply 500 ~Sweetener 114P watsupply 114Q Many **Tubes** ,506, 104 as Pumps/ 508 Recipes / Formulations / Many **Tubes** 08 **Methods** Of Making Database Mixed Pour10 Fig. 1A

33/206 © EPODOC / EPO

PN - [AU2014201133](#) A1 20140320

PNFP - AU2014201133B B2 20160317

PR - AU20080296239 20080904; AU20140201133 20140303

AP - AU20140201133 20140303

DT - I

CT - || STSE (B2)

[US6751525](#) B1 20040615 [] (CRISP III HARRY LEE [US])

[US7395134](#) B2 20080701 [] (BARTHOLOMEW JULIE R [US], et al)

PA - (A1 B2)
COCA COLA CO

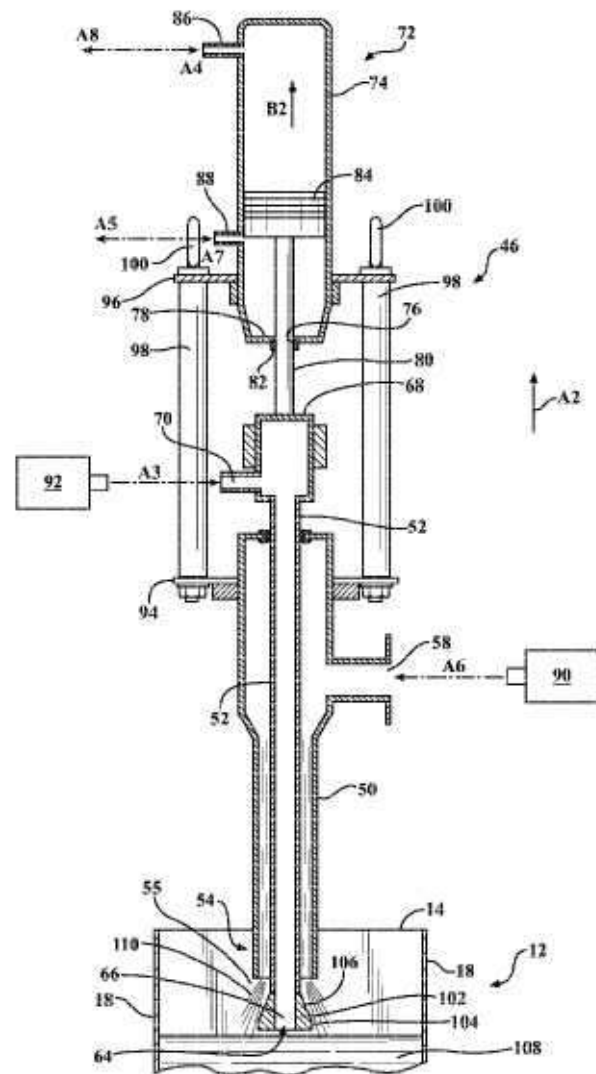
TI - (A1 B2)
Beverage **dispenser**

AB - (A1 B2)

Embodiments of the invention can include systems and **methods** for **dispensing** consumable products. One embodiment of the invention can provide a product **dispenser**. The product **dispenser** can include an ingredient matrix operable to receive a plurality of product ingredients. In additional, the product **dispenser** can include a controller in communication with the ingredient matrix, and operable to execute a set of instructions to receive product data associated with the plurality of product ingredients. Moreover, the controller can further comprise a set of instructions to track usage of the plurality of product ingredients when at least one product is **dispensed**. Furthermore, the controller can further comprise a set of instructions to update the product data during or after **dispensing** of a product or installation of one or more product ingredients in the ingredient matrix. Data Processing Recipes! 100 Resource / Server Formulations/ 126 **Methods** Of Making Database etwork (LAN, Internt~etcOperational 11A 132 Database 118A Ingredient Matrix ,16A Data Storage Reader / Product Forming Ingredient **Package** 116B Device / Memory Scanner 1Writer Product Forming Ingredient **Package** Controller Product Forming Ingredient **Package** 12 Product Forming Ingredient **Package** 1160 Reader ' (Carbonated Water Supply Writer Sweetener 116P Water Supply 116Q **Tubes** 120, Prianter 140 Product Scanner 102 F1 .

34/206 © EPODOC / EPO

- PN - [US2014076457](#) A1 20140320
- PNFP - US9242848 B2 20160126
- PR - US201314032606
20130920; US201261703328P
20120920
- AP - US201314032606 20130920
- DT - *: Rep
- CT - || STSE (B2)
[US3181576](#) A 19650504 [
] (ERNEST PELLERINO, et al)
[US4530202](#) A 19850723 [
] (POWELL ROGER M [AU], et al)
[US4606382](#) A 19860819 [
] (BILLER VICTOR [US], et al)
[US4749010](#) A 19880607 [
] (PETELL RALF [FI])
[US5758698](#) A 19980602 [
] (KANEKO YUTAKA [US])
[US6155314](#) A 20001205 [
] (DING KECHENG [US], et al)
[US6817386](#) B2 20041116 [
] (TSUKANO KENICHI [JP], et al)
[US7730912](#) B2 20100608 [
] (BLICHMANN JOHN RICHARD
[US])
[US2002179177](#) A1 20021205 [
] (TSUKANO KENICHI [JP], et al)
[US2005178466](#) A1 20050818 [
] (TANIKAWA KATSUNORI [JP], et
al)
- || R141 (A1)
[US3181576](#) A [];
[US4530202](#) A [];
[US4606382](#) A [];
[US4749010](#) A [];
[US5758698](#) A [];
[US6155314](#) A [];
[US2002179177](#) A1 [];
[US6817386](#) B2 [];
[US2005178466](#) A1 [];
[US7730912](#) B2 []
- CCI - [B65B31/044](#) ; [B65B39/12](#) ;
[B65B39/145](#) ; [B65B3/04](#)
- CUI - [B67D7/42](#)



PA - (A1 B2)
POUCH PAC INNOVATIONS LLC
[US]

TI - (A1 B2)
DIVING NOZZLE FOR FILLING A
PRODUCT INTO A **PACKAGE** AND
FOR GAS PURGING AND **METHOD**
FOR THE SAME

AB - (A1 B2)
The diving nozzle includes a
first **tube** and a second **tube**. The
first **tube** having a first inlet and
a first outlet. The first inlet
connected to a supply of a first
material. The first outlet
operable to **dispense** the first
material into the **package**. The
second **tube** is moveable with
respect to the first **tube**. The
second **tube** having a second
inlet and a second outlet. The
second inlet connected to a
supply of a second material. The
second outlet operable
to **dispense** the second material
into the **package**. The first
material is one of the product
and the purging gas, the second
material is the other of the
product and the purging gas.

35/206 © EPODOC / EPO

PN - [AU2013270607](#) A1 20140206

PNFP - AU2013270607B B2 20160721

PR - AU20080296266 20080904; AU20130270607 20131211

AP - AU20130270607 20131211

DT - I

CT - || STSE (B2)
[US6098879](#) A 20000808 [] (TERRANOVA STEVEN N [US]);
[US2003191709](#) A1 20031009 [] (ELSTON STEPHEN [US], et al);
[US2005205666](#) A1 20050922 [] (WARD KEVIN B [US], et al);
[WO2005111955](#) A1 20051124 [] (FONTERRA CO OPERATIVE GROUP [NZ], et al)

PA - (A1 B2)
COCA COLA CO

TI - (A1 B2)
Method for controlling a plurality of **dispensers**

AB

- (A1 B2)

Embodiments of the invention can include systems and **methods** for **dispensing** consumable products. In one embodiment, a system comprising a product **dispenser** and processor can be provided. The processor can be operable to execute a set of instructions operable to receive a consumer preference to receive a notification associated with a product. The set of instructions can be further operable to determine whether the product is being offered, and based at least in part on the consumer preference, notify the consumer regarding availability of the product from the product **dispenser**. Data Processing Recipes/ 100 Resource / Server Formulations/ 126 **Methods** Of Making Consumer Database Database etwork (LAN, WAN, 1288 internet, etc. 1130 Opeatina Operatinal 132 Database Data Storage Reader 118A Ingredient Matrix 116A Device /Memory Scanner Product Forming Ingredient Packape 116B 1Writer (Product Forming ingredient Packa 110 ~Product Forming Ingredient Packa~i 11e Controller Product Forming Ingredient **Package** 16 1116 114 116N 11Product Forming Ingredient **Package** 1160 1Reader / Carbonated Water Supply Scanner 'l / Writer Sweetene 116P Water Supply 116Q **Tubes** 120, Scanispnse 106A , Pumps/ 122 Valves) **Tubes** Nozzle Mixed Pour. Printer13 140 Product Rede /**Dispenser** i . IScanner 102N Fig. 1 -Writer 1 138

36/206 © EPODOC / EPO

PN - [WO2014105931](#) A2 20140703

PNFP - WO2014105931 A3 20141009

PR - US201213729195 20121228

AP - WO2013US77766 20131226

DT - **

CT - [EP] ISR (A3)

[WO2008102066](#) A1 20080828
[XAYI] (LE FAUCHEUR ROGER [FR],
et al)

[X] 1-4,7-14,16

* the whole document *

[A] 6,15,17-20

[Y] 5

[I] 10;

[WO9425358](#) A1 19941110

[XAI] (LINGNER & FISCHER GMBH
[DE], et al)

[X] 1-4,8,9,11,14

* page 7, line 10 - line 26;

figure - *

[A] 5-7,15-20

[I] 12,13;

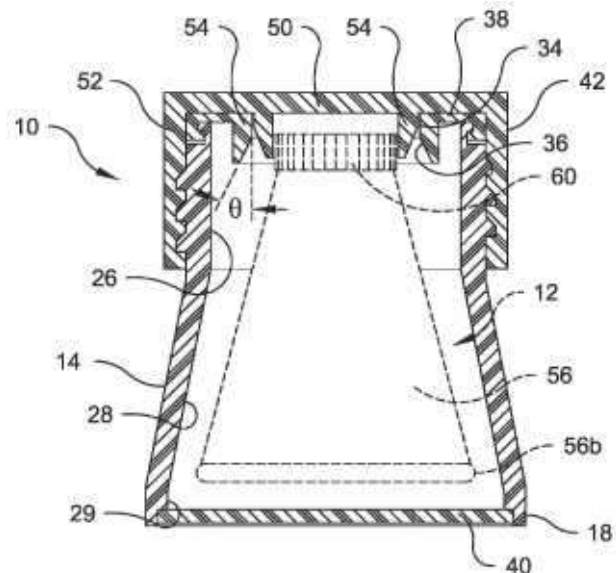
[US2556584](#) A 19510612

[XA] (JOSEPH HOFMANN FRANK)

[X] 1-3,9,11-20

* the whole document *

[A] 4-8,10;



[US2005054991](#) A1 20050310
 [A] (TOBYN MICHAEL JOHN [GB],
 et al)
 [A] 6,11-13,19,20
 * paragraphs [0071] , [0075] ,
 [0077] , [0108]; figure - *;
[US6386405](#) B1 20020514
 [Y] (KARS HERMAN P [NL], et al)
 [Y] 5
 * abstract *

- CCI - [B65D77/06](#) ; [B65D35/56](#)
- CCA - [B65D2215/00](#)
- PA - (A2 A3)
 GALDERMA RES & DEV [FR];
 GALDERMA R & D [US]
- TI - (A2 A3)
 COMBINATION CHILD-
 RESISTANT **PACKAGE** AND
 COLLAPSIBLE **TUBE**, AND **METHOD**
 OF USING SAME
- AB - (A2)
 A combination includes a child-
 resistant **package** and a
 collapsible **tube** removably
 positionable therein. A sidewall
 of a body of the **package** has an
 interior surface and an opposing
 exterior surface. A cavity is
 defined by the body. An opening
 is positioned proximate an open
 first end of the body. A bottom
 wall is positioned proximate an
 open second end of the body. A
 cap is removably mounted onto
 at least a portion of the first end
 of the body. The collapsible **tube**
 is surrounded by the body, the
 bottom wall and the cap when
 the cap is mounted onto at least
 a portion of the first end of the
 body. The collapsible **tube**
 includes a generally flexible
 housing defining a cavity for
 holding a substance to
 be **dispensed** from the housing. A
 closure is removably mounted
 onto the housing.
- (A3)

A combination includes a child-resistant **package** (10) and a collapsible **tube** (12) removably positionable therein. A sidewall (20) of a body (14) of the **package** has an interior surface (22) and an opposing exterior surface (24). A cavity (30) is defined by the body. An opening (32) is positioned proximate an open first end (16) of the body. A bottom wall (40) is positioned proximate an open second end (18) of the body. A cap (42) is removably mounted onto at least a portion of the first end of the body. The collapsible **tube** is surrounded by the body, the bottom wall and the cap when the cap is mounted onto at least a portion of the first end of the body. The collapsible **tube** includes a generally flexible housing (56) defining a cavity (58) for holding a substance to be **dispensed** from the housing. A closure (60) is removably mounted onto the housing.

37/206 © EPODOC / EPO

PN - [AU2013251265](#) A1 20131121

PR - AU20080296257 20080904; AU20130251265 20131101

AP - AU20130251265 20131101

DT - I

PA - COCA COLA CO

TI - Systems and **methods** for facilitating consumer-**dispenser** interactions

AB - Embodiments of the invention can include systems and **methods** for facilitating consumer-**dispenser** interactions. In one embodiment, a product **dispenser** is provided. The product **dispenser** can include a reader configured to read machine readable item. In addition, the product **dispenser** can include a controller in communication with the reader, and operable to execute a set of instructions to receive information from the machine readable item associated with a consumer via the reader. Moreover, the controller can be further operable to execute a set of instructions to configure at least part on the information from the machine readable item, and **dispense** a product. Data Processing Recipes/ 100 Resource / Server Formulations/ 126 **Methods** Of Making Consumer Database Database etwork (LAN, Internttetc- 3 Operational 132 Database 11 8A Ingredient Matrix 116A Data Storage eader Product Forming Ingredient **Package** 116B

Device / Memory Scannr Product Forming Ingredient **Package** 1160 Reader / Carbonated Water Supply Scannere / Writer Sweetener 116P Water Supply 116Q Reader / Scanner Tubes 120, 106A , Pumps/ 122 Valves 124 **Tubes** - Nozzle Mixed Pour Printer Product **Dispenser** 1 02N Scanner Fig. 1 Writer 138

38/206 © EPODOC / EPO

PN - [RU2012108419](#) A 20130910

PNFP - RU2606868 C2 20170110

PR - US20050740282P
20051129; SE20050002604
20051129

AP - RU20120108419 20120305

DT - I

CT - || STSE (C2)
[US4380306](#) A 19830419 [] (KNOPF KARL HORST [DE]);
[US6745922](#) B1 20040608 [] (HEINEKEN TECH SERVICES [NL]);
[US5034252](#) A 19910723 [] (PLM AB [SE])

CCI - [B65D1/0276](#) ; [B65D1/0284](#) ;
[B65D47/247](#) ; [B67C3/30](#) ;
[B67D1/0832](#)

CUI - [B29C49/22](#) ; [B29C49/4273](#) ;
[B65D23/02](#) ; [B65D23/0828](#) ;
[B65D1/0246](#) ; [B65D81/24](#) ;
[B67C7/00](#) ; [B67D1/0801](#)

CNOI - (C2)
[B67D1/08](#)

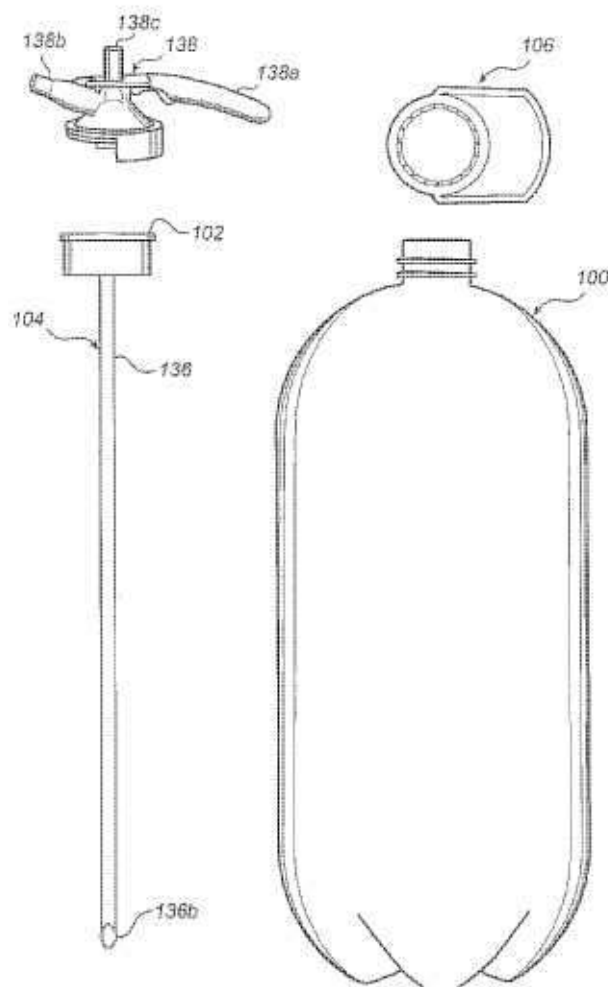
CCA - [B29L2031/7158](#) ; [B29K2023/06](#) ;
[B29K2067/00](#) ; [B29K2067/046](#) ;
[B29K2077/00](#) ; [B29C49/06](#) ;
[B29K2623/06](#) ; [B65D81/266](#) ;
[B67C2003/227](#) ;
[B67D2001/0812](#) ;
[B67D2001/0824](#)

CUA - [B29K2105/258](#)

PA - (C2)
PETAJNER LIDCHEPING AB [SE]

TI - (C2)
DEVICE AND **METHOD** OF
POURING AND **DISPENSING**
BEVERAGES

AB - (C2)
FIELD: **packaging** industry.
SUBSTANCE: **method** of pouring



and **dispensing** beverages uses a disposable device, including disposable and freely standing container (100) made of plastic by blow molding of preliminary shape in form of a single structure, and a tubular structure having **tube** (136) to be inserted into container, and closing cover (102). Thin-wall container (100) is filled with a beverage through **tube** (136) and then closed by closing cover (102). Said filled assembly (100, 102, 136) is sent to an end consumer and is connected to standard beverage **dispensing** device (138).EFFECT: after use empty container (100) is compressed and ejected along with tubular structure, which is also made of plastic.36 cl, 8 dwg

39/206 © EPODOC / EPO

- PN - [AU2012100439](#) A4 20120517
- PR - AU20120100439 20120418
- AP - AU20120100439 20120418
- DT - I
- PA - PROCES DATA AS
- TI - Apparatus and **method** for storing and **dispensing** goods such as tobacco related products, which products are contained in **packages**
- AB - APPARATUS AND **METHOD** FOR STORING AND **DISPENSING** GOODS SUCH AS TOBACCO RELATED PRODUCTS, WHICH PRODUCTS ARE 5 CONTAINED IN **PACKAGES** The invention relates to an apparatus for storing and **dispensing** goods such as tobacco related products, which products are contained in **packages**, said apparatus comprising a storage unit (16) for storing **packages** in a number of 10 storage shelves or **tubes** (15), a unit (14) for conveying one or more **packages** (1, 100) from the storage unit (16) to an outlet, said unit (14) being in the form of a fetcher mechanism which comprises means for determining position, whereby the fetcher mechanism (14) can be caused to be situated next to a given storage shelf or **tube** (15), where said fetcher mechanism (14) 15 is arranged to convey one or more **packages** (1, 100) from a feeding device (3) to a storage shelf or **tube** (15). The invention further relates to a **method** for storing and **dispensing** goods such as tobacco related products. (fig. 1) Fig. 1

40/206 © EPODOC / EPO

- PN - [CN102513739](#) A 20120627
- PR - CN20111454596 20111230

AP - CN20111454596 20111230

DT - I

CT - || STSE (A)
[EP1914035](#) A1 20080423 [A] (SENJU METAL INDUSTRY CO [JP], et al)
 [A]
[CN102069315](#) A 20110525 [Y] (UNIV SICHUAN, et al)
 [Y]
[CN102069314](#) A 20110525 [Y] (SHENZHEN EARLYSUN TECHNOLOGY CO LTD)
 [Y]
[CN102281988](#) A 20111214 [XY]
 [X]
 [Y]

PA - SHENZHEN EARLYSUN TECHNOLOGY CO LTD

TI - High-temperature lead-free halogen-free solder paste and preparation **method** thereof

AB - The invention provides a high-temperature lead-free halogen-free solder paste and a preparation **method** thereof. The high-temperature lead-free halogen-free solder paste is prepared from the components in percentage by weight: 80-91 percent of solder powder and 20-90 percent of flux paste, wherein the solder powder is tin-nickel-antimony or tin-nickel-antimony alloy powder. The high-temperature lead-free halogen-free solder paste has the beneficial effects that 1, the solder paste provided by the invention does not contain lead and is environmentally friendly, and the solder paste replaces a high-lead solder paste to be used for **packaging** semiconductor devices, particularly power devices and LED (Light Emitting Diode) in high temperature operation, **packaging** high-density integrated circuits and welding circuit boards needing secondary backflow; 2, the solder paste provided by the invention has stable chemical property and strong antioxidant capacity and is easily stored; 3, after the high-temperature lead-free halogen-free solder paste provided by the invention is adopted for welding, no solder ball exists, residues are less, the welding position is transparent, the surface impedance is high, and the safety performance of a product working in a high temperature and humid environment is effectively increased; the wetting property of gold-plated, silver-plated and nickel-plated devices is good, and the welding strength is large; 4, a precision device adopts the high-temperature lead-free halogen-free solder paste provided by the invention, a needle **tube** glue-**dispensing** process has uniform and smooth flow, and the void content after welding is lower than 8%.

PN - [WO2012143454](#) A1 20121026
 PR - DKPA201170193 20110419
 AP - WO2012EP57182 20120419
 DT - *; Rep
 CT - |EP| ISR (A1)
 [EP2040230](#) A2 20090325
 [XY] (WILLACH GMBH GEB [DE])
 [X] 1,2,4,11,14,15
 * column 4, line 34 - column 5,
 line 32; figure -;
 [Y] 3,10;
 [EP0991037](#) A2 20000405
 [YA] (WILLACH GMBH GEB [DE])
 [Y] 3,10
 * column 4, line 40 - column 6,
 line 18; figure - *
 [A] 1,2,11;
 [US2002087231](#) A1 20020704
 [A] (LEWIS JIMMY RANDOLPH
 [US], et al)
 [A] 1,11
 * page 2, column 2, line 40 -
 page 3, column 1, line 63;
 figure - *;
 [WO2007014956](#) A2 20070208
 [A] (U T I T S P A [IT], et al)
 [A] 1,3,11
 * figure -; claim - *
 CCI - [G07F17/16](#) ; [G07F11/10](#) ;
 [G07F11/165](#) ; [G07F11/28](#)
 PA - PROCES DATA AS [DK]; THYRRING
 RASMUS [DK]; CRAMER NIELSEN
 CHRISTIAN [DK]
 TI - APPARATUS AND METHOD FOR
 STORING AND **DISPENSING**
 GOODS SUCH AS **PACKAGED**
 TOBACCO PRODUCTS
 AB - The invention relates to an
 apparatus for storing
 and **dispensing** goods such as
 tobacco related products, which
 products are contained
 in **packages**, said apparatus
 comprising a storage unit (16)
 for storing **packages** in a number
 of storage shelves or **tubes** (15),
 a unit (14) for conveying one or

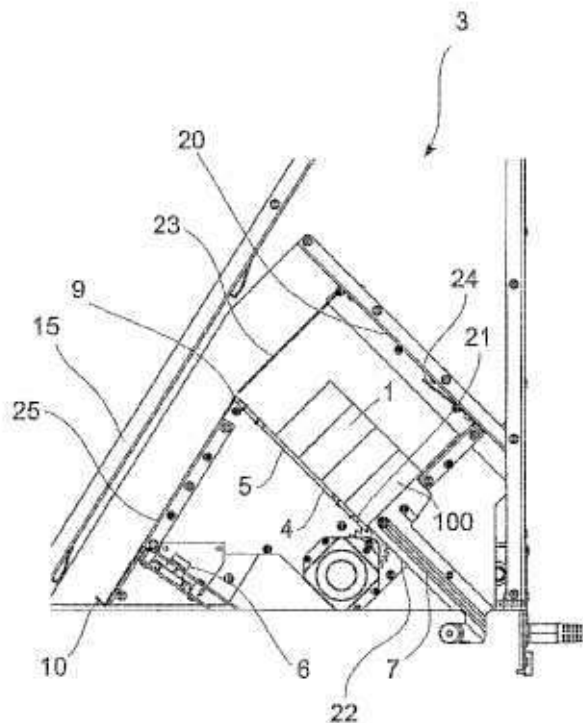


Fig. 1

more **packages** (1, 100) from the storage unit (16) to an outlet, said unit (14) being in the form of a fetcher mechanism which comprises means for determining position, whereby the fetcher mechanism (14) can be caused to be situated next to a given storage shelf or **tube** (15), where said fetcher mechanism (14) is arranged to convey one or more **packages** (1, 100) from a feeding device (3) to a storage shelf or **tube** (15). The invention further relates to a **method** for storing and **dispensing** goods such as tobacco related products.

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PN - [DK177157B](#) B1 20120305

PR - DKPA201170193 20110419

AP - DKPA201170193 20110419

DT - I

CCI - [G07F17/16](#) ; [G07F11/10](#) ; [G07F11/165](#) ; [G07F11/28](#)

PA - PROCES DATA AS [DK]

AB - The invention relates to an apparatus for storing and **dispensing** goods such as tobacco related products, which products are contained in **packages**, said apparatus comprising a storage unit (16) for storing **packages** in a number of storage shelves or **tubes** (15), a unit (14) for conveying one or more **packages** (1, 100) from the storage unit (16) to an outlet, said unit (14) being in the form of a fetcher mechanism which comprises means for determining position, whereby the fetcher mechanism (14) can be caused to be situated next to a given storage shelf or **tube** (15), where said fetcher mechanism (14) is arranged to convey one or more **packages** (1, 100) from a feeding device (3) to a storage shelf or **tube** (15). The invention further relates to a **method** for storing and **dispensing** goods such as tobacco related products.

43/206 © EPODOC / EPO

PN - [CA2740051](#) A1 20060928

PNFP - CA2740051 C 20140603

PR - US20050085370
20050321; CA20062601225
20060321

AP - CA20062740051 20060321

DT - I

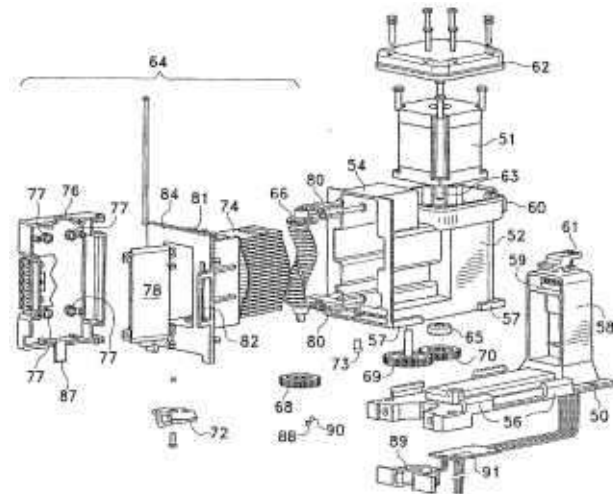
CCI - [B67D1/0054](#) ; [B67D1/0082](#) ;
[B67D1/0862](#) ; [B67D1/0864](#) ;
[B67D1/108](#)

PA - (A1 C)
LANCER PARTNERSHIP LTD [US]

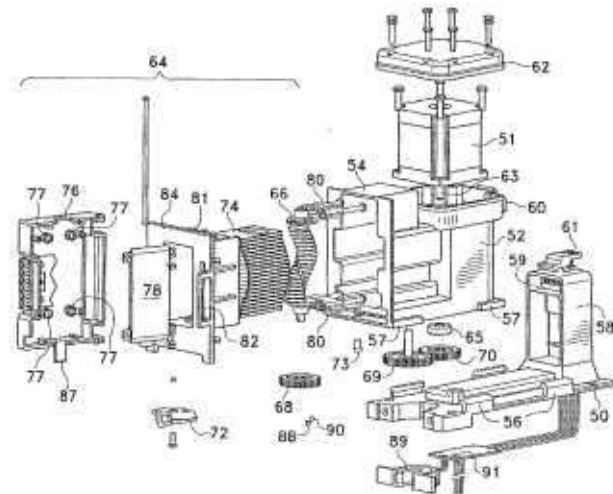
TI - (A1)
**METHODS AND APPARATUS FOR
PUMPING AND DISPENSING**

- (C)
APPARATUS FOR PUMPING
AND **DISPENSING**

AB - (A1 C)
Methods and apparatus for
pumping and **dispensing** are
provided in which a peristaltic
pump pumps liquid from
a **package**, and may be integrated
in a **dispenser**. The peristaltic
pump is adapted for improved
accuracy, cleaning, and
maintenance. Also provided are
improved **tubes** for peristaltic
pumping that are coupled to self-
sealing **dispensing** valves.



PN - [CA2740131](#) A1 20060928
 PNFP - CA2740131 C 20131029
 PR - US20050085370
 20050321; CA20062601225
 20060321
 AP - CA20062740131 20060321
 DT - I
 CCI - [B67D1/0054](#) ; [B67D1/0082](#) ;
[B67D1/0862](#) ; [B67D1/0864](#) ;
[B67D1/108](#)
 PA - (A1 C)
 LANCER PARTNERSHIP LTD [US]
 TI - (A1 C)
**METHODS AND APPARATUS FOR
 PUMPING AND DISPENSING**
 AB - (A1 C)
Methods and apparatus for
 pumping and **dispensing** are
 provided in which a peristaltic
 pump pumps liquid from
 a **package**, and may be integrated
 in a **dispenser**. The peristaltic
 pump is adapted for improved
 accuracy, cleaning, and
 maintenance. Also provided are
 improved **tubes** for peristaltic
 pumping that are coupled to self-
 sealing **dispensing** valves.



PN - [US2011083402](#) A1 20110414

PR - US20100901950
20101011; US20090250373P
20091009

AP - US20100901950 20101011

DT - *; Rep

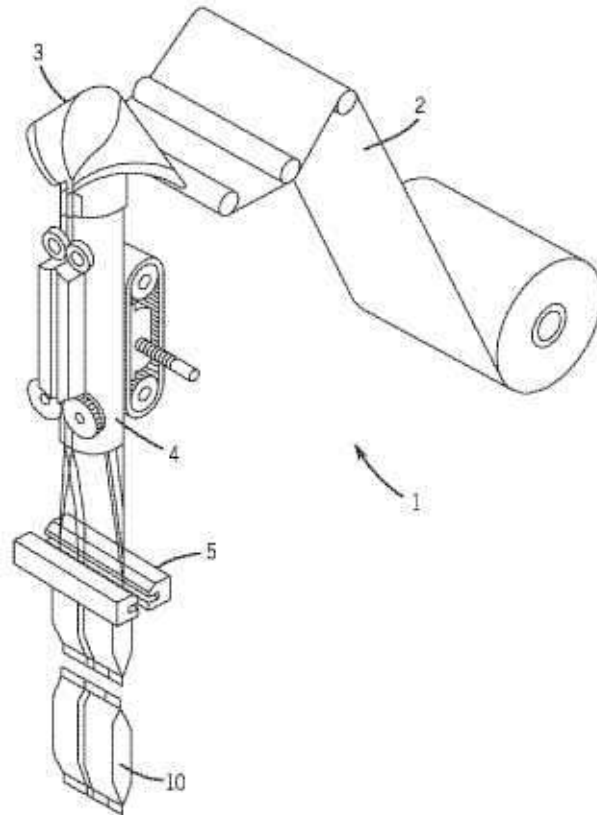
CT - || R141 (A1)
[US7065937](#) B2 [];
[US5606844](#) A [];
[US6805261](#) B1 [];
[US2004083684](#) A1 [];
[US2008173385](#) A1 [];
[US6354062](#) B1 [];
[US2006196151](#) A1 [];
[US2005172576](#) A1 [];
[US2004206055](#) A1 [];
[US7600360](#) B2 [];
[US7207153](#) B1 [];
[US7147597](#) B2 [];
[US6892508](#) B2 [];
[US6402019](#) B1 [];
[US6378271](#) B1 [];
[US6321813](#) B1 [];
[US5852913](#) A [];
[US5716471](#) A [];
[US6817160](#) B2 []

CCI - [B65B61/186](#) ; [B65B9/20](#) ;
[B65B9/2042](#)

CCA - [B65B61/24](#)

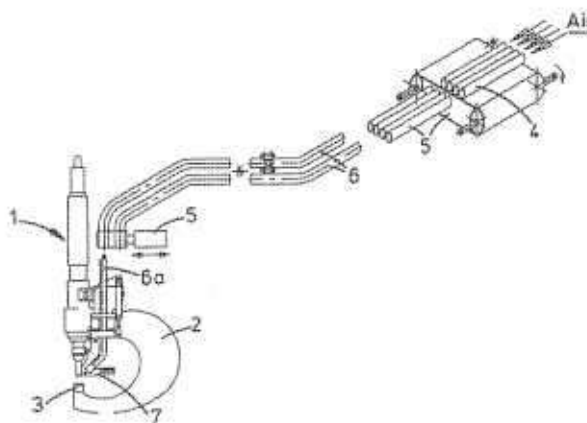
TI - VERTICAL FORM, FILL, AND SEAL
SYSTEM FOR HOT FILL LIQUIDS

AB - A vertical form, fill, and
seal **packaging** system may
comprise a source of flexible
thermoplastic **packaging**
material, a tubular folder, a
product **dispenser** of the tubular
folder, and a side sealer. The
source of flexible **packaging**
material in an elongated thin flat
strip of material may comprise
successive flat **package** blanks
as integral longitudinally
contiguous sections. The tubular
folder may be adapted to receive
a strip material and
progressively forms in passage



to a depending and upwardly open tubular configuration, with opposite longitudinal edge portions of the material being progressively juxtaposed in a passage so as to extend in vertical and parallel directions. The product **dispenser** of the tubular folder for discharging measured quantities of materials may be through a fill **tube** extending downward into an interior of the depending **tube** of **packaging** material through an upwardly open end. The side sealer may be used for sealing the juxtaposed vertically extending longitudinal edge portions of the **tube**. A **method** of making **packages** may comprise the steps of folding a single sheet of thermoplastic film into a **tube**; sealing an open vertical end or side around a filing **tube**; tucking gussets; sealing bottom; and filing an opened cavity of **package** with a hot material at 160 DEG F. or greater.

46/206 © EPODOC / EPO
 PN - [US2011049176](#) A1 20110303
 PNFP - US8850685 B2 20141007
 PR - US20100941539
 20101108; GB19980016796
 19980803; WO1999GB02545
 19990803; US20090356225
 20090120; US20050102335
 20050408; US20010762200
 20010720
 AP - US20100941539 20101108
 DT - **
 CT - || STSE (B2)
[US5465868](#) A 19951114 [
] (BONOMI GIOVANNI B [IT])
[US7849579](#) B2 20101214 [
] (CRAYTHORN RUPERT ANDREW
 [AU], et al)



- || R141 (A1)
[US7849579](#) B2 [];
[US6027004](#) A [];
[US5011339](#) A [];
[US6052882](#) A [];
[US5906041](#) A [];
[US4592136](#) A [];
[US5772098](#) A [];
[US4463888](#) A [];
[US5452630](#) A [];
[US5813114](#) A [];
[US6944944](#) B1 [];
[US5351392](#) A [];
[US4174802](#) A [];
[US5263627](#) A [];
[US5974660](#) A [];
[US5988026](#) A [];
[US4555838](#) A [];
[US5476204](#) A [];
[US5579975](#) A [];
[US6006975](#) A [];
[US5465868](#) A []

CCI - [B21J15/32](#)

CUI - [B21J15/025](#) ; [B21J15/10](#) ;
[B23P11/00](#)

CCA - [Y10T29/49](#) ; [Y10T29/49943](#) ;
[Y10T29/49947](#) ; [Y10T29/49956](#) ;
[Y10T29/5118](#) ; [Y10T29/5343](#) ;
[Y10T29/53478](#) ; [Y10T29/5377](#)

CUA - [B65G47/1407](#)

PA - (B2)
CRAYTHORN RUPERT ANDREW
[AU]; FUHRMEISTER RALPH [AU];
MATTHEWSSHANE PETER [AU];
GOSTYLLA WOJCIECH [AU];
BLACKETSTUART EDMUND [AU];
CLEW NICHOLAS RICHARD [US];
BUTLER MICHAEL [GB]; HENROB
LTD [GB]

TI - (A1)
FASTENING MACHINES

- (B2)
Method for delivering fasteners
via an intermediate buffer

AB - (A1 B2)
Fastener delivery apparatus for
automatically selecting and

delivering fasteners such as rivets to a setting tool. The fasteners are pre-loaded in a **package** and **dispense** via at least one fastener delivery **tube** that interconnects the setting tool to a fastener feeder device. The fastener feeder device releases selected fasteners from the **package** into the delivery **tube**. The fasteners are transportable individually or in groups in the **tube** from the feeder device to the tool. A transfer station attached to the tool or the delivery **tube** transfers a fastener from the delivery apparatus into the tool, transfer station is adjacent to the tool so that a delivered fastener may be inserted by the transfer station into the tool and a second position in which it is clear of the tool so as to permit the tool or a portion thereof to move towards a workpiece to insert a smooth, rapid and reliable delivery of fasteners of various sizes and types to the nose of a setting tool in any particular order and provides all the fastener types for any particular work cycle.

PN - [US2011024445](#) A1 20110203
 PNFP - US8464909 B2 20130618
 PR - EP20070120148
 20071107; WO2008EP64855
 20081103
 AP - US20080741728 20081103
 DT - **
 CT - || STSE (B2)
[US3308898](#) A 19670314 [
] (HARPER INC ALLEN)
[US4042153](#) A 19770816 [
] (STANDARD OIL CO)
[US4529106](#) A 19850716 [
] (BROADFOOT JOHN T [US], et al)
[US4702675](#) A 19871027 [
] (HOSPAL AG [FR])
[US4728501](#) A 19880301 [
] (ATAKE MINORU [JP])
[US4762483](#) A 19880809 [
] (ZEVLAKE JOHN M [US])
[US4830864](#) A 19890516 [
] (ZEVLAKE JOHN M [US])
[US5020698](#) A 19910604 [
] (CROSSLEY JIMMY L [US])
[US5048724](#) A 19910917 [
] (FEDPAK SYSTEMS INC [US])
[US5069364](#) A 19911203 [
] (MCGILL SHANE R [GB])
[US5215215](#) A 19930601 [
] (VARTA BATTERIE [DE])
[US5215222](#) A 19930601 [
] (MCGILL SHANE R [GB])
[US5232027](#) A 19930803 [
] (NISSEI CO LTD [JP], et al)
[US5405054](#) A 19950411 [
] (FEDPAK SYSTEMS INC [US])
[US5421484](#) A 19950606 [
] (POLAR EXPRESS
 INTERNATIONAL IN [US])
[US5453246](#) A 19950926 [
] (MITSUBISHI YUKA BIO CLINICAL
 L [JP], et al)
[US5494194](#) A 19960227 [
] (WHITE CONSOLIDATED IND INC
 [US])
[US5505336](#) A 19960409 [
] (DIGGS GROUP [US])
[US5553756](#) A 19960910 [

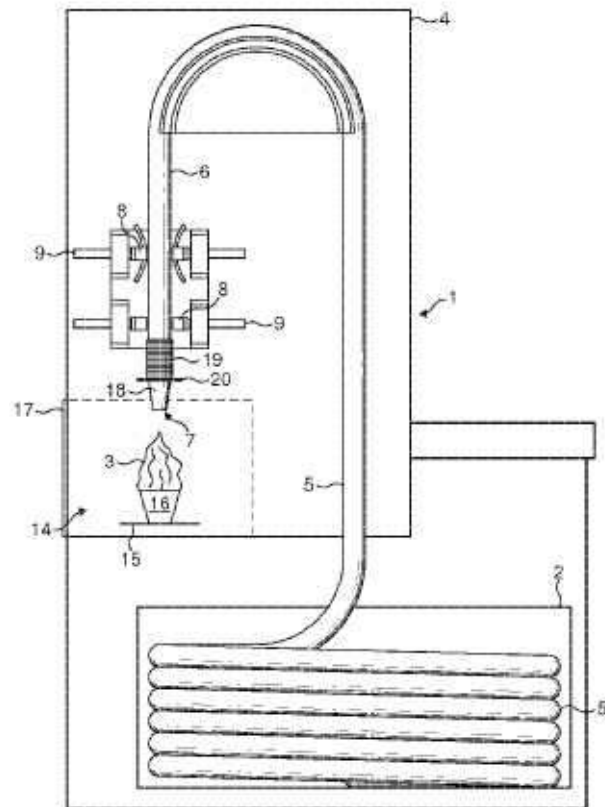


FIG. 1

] (WHITE CONSOLIDATED IND INC
 [US])
[US5556268](#) A 19960917 [
] (WHITE CONSOLIDATED IND INC
 [US])
[US5623106](#) A 19970422 [
] (JOHNSON & JOHNSON CLIN
 DIAG [US])
[US5775533](#) A 19980707 [
] (LANCER PARTNERSHIP LTD [US])
[US5967381](#) A 19991019 [
] (GREGORY RUSSELL VAN
 ZEELAND [AU])
[US6155461](#) A 20001205 [
] (HOSHIZAKI DENKI CO LTD [JP])
[US6299025](#) B1 20011009 [
] (HOSHIZAKI DENKI CO LTD [US])
[US6319532](#) B1 20011120 [
] (PINEAULT MARCEL [CA])
[US6325244](#) B2 20011204 [
] (GRAND SOFT EQUIPMENT CO
 [US])
[US6435377](#) B1 20020820 [
] (HOSHIZAKI DENKI CO LTD [JP])
[US6453803](#) B1 20020924 [
] (SANYO ELECTRIC LTD [JP], et al)
[US7651010](#) B2 20100126 [
] (NESTEC SA [CH])
[US7665630](#) B2 20100223 [
] (MCGILL TECH LTD [GB])
[US7784423](#) B1 20100831 [
] (NAT SEMICONDUCTOR CORP
 [US])
[US8011505](#) B2 20110906 [
] (HOLLISTER INC [US])
[US2007275131](#) A1 20071129 [
] (NESTEC SA [CH])
[US2011024445](#) A1 20110203 [
] (NESTEC SA [CH])
[US2011079615](#) A1 20110407 [
] (OPHARDT HEINER [CA], et al)
[JPH07327608](#) A 19951219 [
] (SUN TEC KK)
 - || R141 (A1)
[US3308898](#) A [];
[US4042153](#) A [];
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[US4762483](#) A [];

[US4830864](#) A [];
[US5215215](#) A [];
[US5232027](#) A [];
[US2007275131](#) A1 [];
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[US5553756](#) A [];
[US5623106](#) A [];
[US5775533](#) A [];
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[US6435377](#) B1 [];
[US6453803](#) B1 [];
[US7784423](#) B1 [];
[US5281429](#) A [];
[US2005189375](#) A1 []

- | | |
|-----|---|
| CCI | - A23G9/28 ; A23G9/30 |
| PA | - (A1)
NESTEC SA [CH]
- (B2)
DELANDE BRUNO SADI HENRI [FR];
FUNNELL BRUCE [FR]; NESTEC SA
[CH] |
| TI | - (A1 B2)
DISPENSING SYSTEM FOR FOOD
PRODUCTS |
| AB | - (A1)
The present invention concerns
a dispensing device for a viscous
edible product, comprising a
storing unit for storing the said |

viscous product, and
a **dispensing** unit with: (i) a flexible packing **tube** for packing and **dispensing** said food product, disposed within said **dispensing** unit such that it comprises a substantially linear portion adjacent its **dispensing** opening, (ii) compression means for pinching said linear portion of **tube**, said means being movable in substantially perpendicular and parallel directions relative to the longitudinal axis of the **tube**, (iii) actuation means for reversibly moving said compression means firstly in a direction substantially perpendicular to the longitudinal axis of the packing **tube** to releasably pinch at least one portion of said flexible **tube**, and secondly in a direction parallel to the longitudinal axis of the **tube** towards its **dispensing** opening, so as to **dispense** at least one portion of the product packed in the **tube**. The invention also relates to a corresponding **tube**-like **package** for storing and **dispensing** the viscous, edible product, and to a corresponding **method** of **dispensing** the viscous, edible product.

- (B2)

A **dispensing** device for a viscous edible product, with a storing unit for storing the viscous product, and a **dispensing** unit. The **dispensing** unit includes a flexible packing **tube** for packing and **dispensing** the food product, disposed within the **dispensing** unit such that it comprises a substantially linear portion adjacent its **dispensing** opening,

compression components for pinching said linear portion of **tube**, compression components being movable in substantially perpendicular and parallel directions relative to the longitudinal axis of the **tube**, actuation components for reversibly moving said compression components firstly in a direction substantially perpendicular to the longitudinal axis of the packing **tube** to releasably pinch at least one portion of the flexible **tube**, and secondly in a direction parallel to the longitudinal axis of the **tube** towards its **dispensing** opening, so as to **dispense** at least one portion of the product packed in the **tube**.

48/206 © EPODOC / EPO

PN - [EP2341250](#) A2 20110706

PNFP - EP2341250 A3 20111012

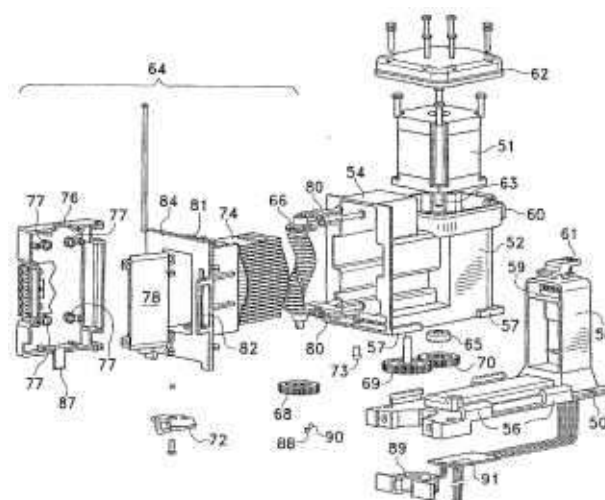
- EP2341250 B1 20160316

PR - EP20060739048
20060321; US20050085370
20050321

AP - EP20110000647 20060321

DT - **

CT - || STSE (A3)
[US2004074393](#) A1 20040422
[XYI] (MINARD JAMES J [US], et al)
[X] 1
* paragraphs [0022] , [0025];
figures 1-3 *
[Y] 13-20
[I] 2-11;
[US5433242](#) A 19950718
[XYI] (BUCHTEL DEAN H [US], et al)
[X] 1
* column 1, line 5 - column 3,
line 40; figure - *
[Y] 13-20
[I] 2-11;



[FR2721591](#) A1 19951229
 [X] (ODY STE CIVILE RECH [FR])
 [X] 1
 * page 4, line 19 - page 6,
 line 19; figure . *;
[US2003066306](#) A1 20030410
 [Y] (RENKEN RICHARD K [US], et
 al)
 [Y] 13-20
 * paragraphs [0023] , [0 29];
 figure 3 *;
[US5890626](#) A 19990406
 [Y] (WOLSKI PETER F [US], et al)
 [Y] 13
 * column 4, line 39 - column 5,
 line 14; figure - *;
[DE927313](#) C 19550505
 [A] (ERWIN JOHN
 ARMATURENFABRIK)
 [A] 1
 * the whole document *;
[US2216890](#) A 19401008
 [A] (PHILIPPS VIRGIL J)
 [A] 1
 * figure - *

CCI - [B67D1/0054](#) ; [B67D1/0082](#) ;
[B67D1/0862](#) ; [B67D1/0864](#) ;
[B67D1/108](#)

PA - (A2)
 LANCER PARTNERSHIP LTD [US]
 - (A3 B1)
 LANCER CORP [US]

TI - (A2 A3 B1)
Dispenser with self
 closing **dispensing** valve and
 peristaltic pump

AB - (A2)
Methods and apparatus for
 pumping and **dispensing** are
 provided in which a peristaltic
 pump (16, 64) pumps liquid from
 a **package** (12), and may be
 integrated in a **dispenser** (10).
 The peristaltic pump (64) is
 adapted for improved accuracy,
 cleaning, and maintenance. Also
 provided are improved **tubes**
 (18) for peristaltic pumping that

are coupled to self-sealing **dispensing** valves (92, 104, 110, 120).

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PN - [CN101924176](#) A 20101222

PNFP - CN101924176B B 20131023

PR - CN20101231888 20100712

AP - CN20101231888 20100712

DT - I

CT - || STSE (A)

[US2007252157](#) A1 20071101 [] (DELTA ELECTRONICS INC)

[CN101661977](#) A 20100303 [] (BEIJING PANTIAN NEW TECHNOLOGY)

[CN101765350](#) A 20100630 [] (MEIKEI TECHNOLOGY CORP LTD)

[US2005236638](#) A1 20051027 [] (SANKEN ELECTRIC CO LTD)

[US2010072492](#) A1 20100325 [] (CHEN CHIH-MING [TW], et al)

CLC - [H01L2924/181](#), [H01L2924/00012](#), ADD

- [H01L2224/48091](#), [H01L2924/00014](#), ADD

CCA - [H01L2924/181](#); [H01L2224/48091](#); [H01L2224/48247](#); [H01L2224/49109](#)

PA - (A B)

UNIVSHENZHEN

TI - (A B)

Light-emitting diode **packaging** structure and **packaging method** thereof

AB - (A)

The invention relates to the field of optoelectronic **packaging** and discloses a light-emitting diode (LED) **packaging** structure and a **packaging method** thereof. The invention has the following beneficial effects: not passing through a ceramic insulating layer, an LED chip directly keeps away from the low heat conductivity bottleneck, and the heat can not be accumulated in the insulating layer; a metal heat conducting layer can rapidly transfer the heat generated by the LED chip to a metal substrate; the metal substrate has sufficient width and heat dissipation space; and a glass-ceramic insulating layer is manufactured on the metal heat conducting layer by selective laser melting and then a metal electrode layer and external electrodes are manufactured on the glass-ceramic insulating layer, thus not only ensuring insulation of the **tube** shell with the outside but also having little effect on the overall heat dissipation effect. The required ceramic insulating layer and the metal electrode layer are formed by laser ablation melting, thus avoiding overall high temperature sintering, **dispensing** with the high temperature sintering process, saving energy, protecting the environment, enlarging the material types of the selectable metal substrate and being easy to realize industrialization.

50/206 © EPODOC / EPO

PN - [US2010243671](#) A1 20100930

PNFP - US8528783 B2 20130910

PR - US20090413759 20090330

AP - US20090413759 20090330

DT - *; Rep

CT - || R141 (A1)

[US6227410](#) B1 20010508 [] (STERN LEIF EINAR [SE]);

[US4325496](#) A 19820420 [] (MALPAS JON H);

[US3807597](#) A 19740430 [] (WELLS R, et al);

[US5967368](#) A 19991019 [] (GUILLERMIER BERNARD [FR]);

[US4165023](#) A 19790821 [] (SCHMIT JUSTIN M);

[US2004104246](#) A1 20040603 [] (KAWAGUCHI SUSUMU [JP], et al);

[GB1104359](#) A 19680228 [] (KATHLEEN HENFREY);

[US8205771](#) B2 20120626 [] (COMPTON STEPHEN F [US]);

[US5464123](#) A 19951107 [] (SCARROW DAVID [GB]);

[US4603793](#) A 19860805 [] (STERN LEIF EINAR [SE]);

[US4776488](#) A 19881011 [] (GURZAN EGON [DE]);

[US5407099](#) A 19950418 [] (HEUKE KARL-HEINRICH [DE], et al);

[US5730327](#) A 19980324 [] (STERN LEIF EINAR [SE]);

[USD418413S](#) S 00000000 [];

[US6082584](#) A 20000704 [] (STERN LEIF EINAR [SE]);

[US6098845](#) A 20000808 [] (STERN LEIF EINAR [SE]);

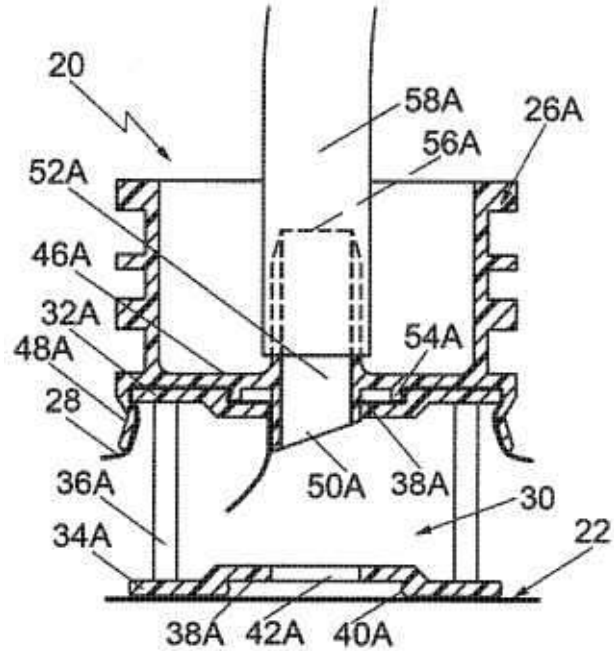
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[US6460732](#) B1 20021008 [] (DRENNOW STEN [SE]);

[USD464262S](#) S 20021015 [] (DRENNOW STEN [SE]);

[US6802436](#) B2 20041012 []



] (DRENNOW STEN [SE], et al);
[US6860407](#) B2 20050301 [
] (GOSSELIN FRANCOIS [US]);
[US7011233](#) B2 20060314 [
] (DRENNOW STEN [SE]);
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] (DRENNOW STEN [SE]);
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] (STERN LEIF E [SE]);
[US7395947](#) B2 20080708 [
] (DRENNOW STEN [SE]);
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] (DRENNOW STEN [SE])
 - || STSE (B2)
[US3807597](#) A 19740430 [
] (WELLS R, et al);
[US4165023](#) A 19790821 [
] (SCHMIT JUSTIN M);
[US4325496](#) A 19820420 [
] (MALPAS JON H);
[US5464123](#) A 19951107 [
] (SCARROW DAVID [GB]);
[US5967368](#) A 19991019 [
] (GUILLERMIER BERNARD [FR]);
[US6227410](#) B1 20010508 [
] (STERN LEIF EINAR [SE]);
[US8205771](#) B2 20120626 [
] (COMPTON STEPHEN F [US]);
[US2004104246](#) A1 20040603 [
] (KAWAGUCHI SUSUMU [JP], et
 al);
[GB1104359](#) A 19680228 [
] (KATHLEEN HENFREY)
 CCI - [B65D75/5877](#)
 CCA - [B65B69/0041](#) ; [B65D2203/00](#)
 PA - (A1)
 FRES CO SYSTEM USA INC [US]
 - (B2)
 PRITCHARD BARRY [US]; FRES CO
 SYSTEM USA INC [US]
 TI - (A1)
 STERILE **DISPENSING PACKAGE**
 WITH COUPLING INSERT FOR
 RECEIPT OF PIERCING MEMBER
 AND **METHOD** OF USING THE SAME
 - (B2)
 Sterile **dispensing package** with
 coupling insert for receipt of

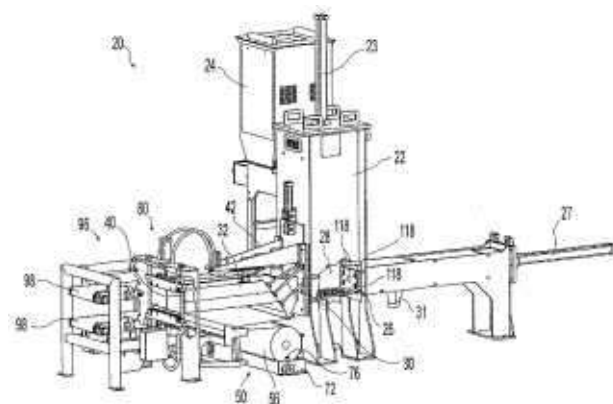
piercing member and **method** of using the same

AB

- (A1 B2)
A **package** for **dispensing** a flowable material is disclosed. The **package** includes an interior chamber for holding the flowable material, a coupling insert located within the chamber and a piercing member. The piercing member includes a **dispensing tube** and is arranged to pierce through the **package** to communicate with the chamber and thereafter to snap-connect to the coupling insert. The contents of the **package** can then be **dispensed** from the **package** via the **dispensing tube**. The coupling insert is arranged to be moved to any desired position within the chamber. The **package's** wall may be constructed, e.g., be transparent and/or include target indicia thereon, to facilitate the positioning of the coupling insert at the desired position.

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- PN - [US2010242410](#) A1 20100930
- PNFP - US7891156 B2 20110222
- PR - US20090383391 20090324
- AP - US20090383391 20090324
- DT - *; Rep
- CT - || R141 (A1)
[US2580833](#) A 19520101 [] (PIPER FRANK R, et al);
[US5177935](#) A 19930112 [] (JONES DAVID [GB], et al);
[US7165378](#) B2 20070123 [] (RIMONDI RENATO [IT]);
[US1702704](#) A 19290219 [] (PHILLIPS HARLEY R);
[US2628753](#) A 19530217 [] (FIELD ALAN D);



[US2005028484](#) A1 20050210 [
] (LITTLEWOOD RICHARD W [CA]);
[US1456576](#) A 19230529 [
] (ROBINSON GEORGE A);
[US3513629](#) A 19700526 [
] (HOAGLAND FRANK V N, et al);
[US1913828](#) A 19330613 [
] (BRENNAN MARK O);
[US3738081](#) A 19730612 [
] (HEINZER H);
[US4272944](#) A 19810616 [
] (SUGA TADORU);
[US5524420](#) A 19960611 [
] (IKUTA SYUNYA [JP]);
[US2010146908](#) A1 20100617 [
] (HONEGGER CHRIS ALLEN [US]);
[US3897530](#) A 19750729 [
] (LEATHERS JOEL M);
[US4677909](#) A 19870707 [
] (BEESLEY BRIAN G [GB], et al);
[US5226269](#) A 19930713 [
] (STOLTENBERG RONALD F [US]);
[US7076930](#) B2 20060718 [
] (RIMONDI RENATO [IT]);
[US4106262](#) A 19780815 [
] (ATERIANUS JOHN S);
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[US3528214](#) A 19700915 [
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] (KOVACS LLOYD [US], et al);
[US2002124533](#) A1 20020912 [
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] (SASAKI YUKIO [JP]);
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[US5566526](#) A 19961022 [
] (SUGA YASUTAKA [JP]);
[US5966907](#) A 19991019 [
] (JULIUS ROBERT P [US]);
[US2009241474](#) A1 20091001 [
] (ACTIS BRADLEY P [US]);
[US2179685](#) A 19391114 [
] (WALKER CHALMERS JOHN);
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] (FOURNESS CHARLES A, et al);

[US2773773](#) A 19561211 [
] (HARDER CLARENCE L, et al);
[US4625495](#) A 19861202 [
] (HOLOVACH JOHN M [US]);
[US5694742](#) A 19971209 [
] (ELLIOTT KENNETH W [US], et al);
[US7308780](#) B2 20071218 [
] (RIMONDI RENATO [IT])
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[US1913828](#) A 19330613 [
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] (ACTIS BRADLEY P [US]);
[US2010146908](#) A1 20100617 [
] (HONEGGER CHRIS ALLEN [US])

CCI

- [B29C65/224](#) ; [B29C65/7451](#) ;

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CLC	- B29C66/71 , B29K2023/06 , ADD
CCA	- B29C66/3494 ; B29C66/71 ; B29C2035/1666
PA	- (A1) RETHCEIF ENTPR LLC - (B2) RETHCEIF ENTPR LLC [US]
TI	- (A1 B2) Packaging apparatus and method of packaging
AB	- (A1 B2) A packaging apparatus including a receptacle, a ram, a film dispensing assembly and first and second elongate members. The receptacle defines a central axis and has a dispensing end with first and second substantially linear and parallel opposed edges that define an axial limit of the dispensing end. The plastic film material forms a film tube about the receptacle. The first and second elongate members are substantially parallel with the first and second edges. In operation, the ram is extended to eject the batch of material through the dispensing end into the film tube . Retracting the ram forms a partial vacuum within the film tube between the batch of material and the ram. The first and second elongate members compressively engage the film tube between the batch of material and the dispensing end and thereby form folded flaps in the film tube . A method

of **packaging** is also disclosed.

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PN - [US2010199606](#) A1 20100812

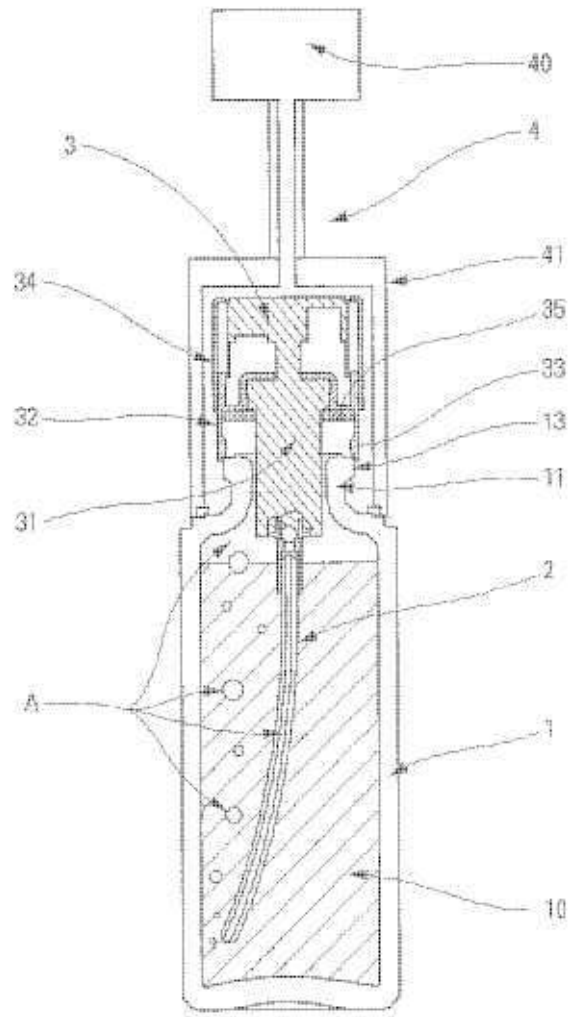
PNFP - US8646245 B2 20140211

PR - FR20070055876
20070620; WO2008FR50762
20080428

AP - US20080598675 20080428

DT - **

CT - || R141 (A1)
[US4397132](#) A 19830809 [
] (PARDES GREG, et al);
[US4437588](#) A 19840320 [] (SHAY
JOSEPH J [US]);
[US5144788](#) A 19920908 [] (VARLET
JEAN-PIERRE [FR]);
[US5425477](#) A 19950620 [
] (MONTANER PEDRO P [ES], et al);
[USRE35683E](#) E 19971209 [
] (VARLET JEAN-PIERRE [FR]);
[US5875932](#) A 19990302 [
] (MESHBERG PHILIP [US]);
[US5305810](#) A 19940426 [
] (MESHBERG PHILIP [US]);
[US5769274](#) A 19980623 [] (BEHAR
ALAIN [FR]);
[US2003197034](#) A1 20031023 [
] (PETIT LUDOVIC [FR]);
[US6691494](#) B2 20040217 [
] (NOMOTO TSUGIO [JP], et al);
[US2004211481](#) A1 20041028 [
] (GARCIA FIRMIN [FR], et al);
[US7578319](#) B2 20090825 [
] (BEHAR ALAIN [FR], et al);
[WO2004105960](#) A2 20041209 [
] (AIRLESSYSTEMS [FR], et al);
[US3718165](#) A 19730227 [
] (GROTHOFF G);
[US4278189](#) A 19810714 [] (KIRK
JR DONALD C);
[US5102018](#) A 19920407 [
] (DESAZARS DE MONTGAILHARD
WILLI [FR], et al);
[WO2007047168](#) A2 20070426 [
] (MEADWESTVACO CORP [US], et
al);
[GB1586447](#) A 19810318 [



] (OREAL);
[EP0408421](#) A1 19910116 [
] (AEROSOLS & BOUCHAGE [FR]);
[WO2008132413](#) A2 20081106 [
] (VALOIS SAS [FR], et al)
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[US4278189](#) A 19810714 [] (KIRK
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[US4397132](#) A 19830809 [
] (PARDES GREG, et al);
[US4437588](#) A 19840320 [] (SHAY
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[US5102018](#) A 19920407 [
] (DESAZARS DE MONTGAILHARD
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[US5425477](#) A 19950620 [
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[USRE35683E](#) E 19971209 [
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[US5769274](#) A 19980623 [] (BEHAR
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[US6691494](#) B2 20040217 [
] (NOMOTO TSUGIO [JP], et al);
[US7578319](#) B2 20090825 [
] (BEHAR ALAIN [FR], et al);
[US2003197034](#) A1 20031023 [
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[US2004211481](#) A1 20041028 [
] (GARCIA FIRMIN [FR], et al);
[EP0408421](#) A1 19910116 [
] (AEROSOLS & BOUCHAGE [FR]);
[GB1586447](#) A 19810318 [
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[WO2004105960](#) A2 20041209 [
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 al);
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] (VALOIS SAS [FR], et al)

- CCI - [B05B11/0097](#) ; [B65B31/003](#)
 CCA - [B05B11/3047](#) ; [B05B11/3049](#) ;
 [B05B11/3061](#) ; [B05B15/30](#)
 PA - (A1)

VALOIS SAS [FR]

- (B2)
BEHAR ALAIN [FR]; VILAIN
EMMANUEL [FR]; APTAR FRANCE SAS
[FR]

TI

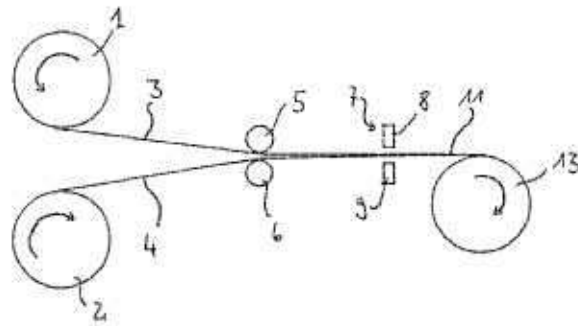
- (A1)
**METHOD AND DEVICE
FOR PACKAGING A FLUID
PRODUCT DISPENSER**
- (B2)
Method and device for **packaging a
fluid product dispenser**

AB

- (A1)
A **method** for **packaging** a fluid
product **dispenser**, where the
said **dispenser** includes a
reservoir (1) of constant effective
volume filled with a fluid product
(10), and a **dispensing** device (3)
that includes a dip **tube** (2) which
is intended to extract the fluid
product (10) contained in the
reservoir on operation of
the **dispensing** device (3), the
reservoir (1) and the dip **tube** (2)
being made from a material or
materials that are substantially or
perfectly transparent, where the
said dip **tube** initially contains air
(A), and the dip **tube** (2) is
connected to the **dispensing** device
and has one free end extending to
the bottom of the reservoir,
the **method** being characterised in
that the air (A) is extracted from
the dip **tube** (2) and is replaced by
the fluid product.
- (B2)
A **method** for **packaging** a fluid
product **dispenser**, where the
said **dispenser** includes a
reservoir (1) of constant effective
volume filled with a fluid product
(10), and a **dispensing** device (3)
that includes a dip **tube** (2) which
is intended to extract the fluid
product (10) contained in the
reservoir on operation of

the **dispensing** device (3), the reservoir (1) and the dip **tube** (2) being made from a material or materials that are substantially or perfectly transparent, where the said dip **tube** initially contains air (A), and the dip **tube** (2) is connected to the **dispensing** device and has one free end extending to the bottom of the reservoir, the **method** being characterized in that the air (A) is extracted from the dip **tube** (2) and is replaced by the fluid product.

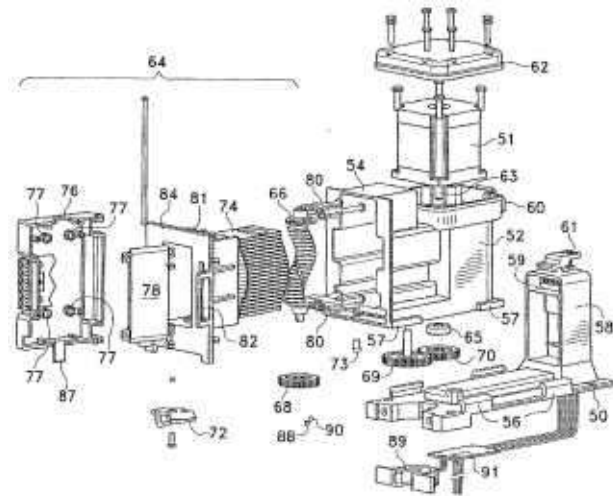
- 53/206** © EPODOC / EPO
- PN - [DE102008056979](#) A1 20100602
- PR - DE20081056979 20081112
- AP - DE20081056979 20081112
- DT - *; Rep
- CT - || STSE (A1)
[DE10326320](#) A1 20050113 [
] (WIDMANN MASCHINEN E K
 [DE]);
[DE102006018083](#) A1 20071018 [
] (KALLFASS GMBH [DE])
- CCI - [B29C66/1122](#) ; [B29C66/43](#)
- CLC - [B29C66/71](#) , [B29K2067/046](#) , ADD
- CCA - [B29C65/08](#) ; [B29C66/71](#) ;
[B29K2067/046](#) ; [B29C65/02](#) ;
[B29C2793/009](#) ; [B31B2160/10](#) ;
[B31B2155/00](#) ; [B31B70/644](#) ;
[B31B2170/20](#) ; [B31B2155/002](#)
- PA - PFANKUCH MASCHINEN GMBH
 [DE]
- TI - Endless semi-flexible **tube**
 manufacturing **method** for
 manufacturing e.g. double-
 chamber bag in **package**
 industry, involves connecting
 film webs together with semi-
 flexible **tube** along seam line in
 form-fit manner
- AB - The **method** involves guiding two
 endless film webs (3, 4) together
 along a connection station (7).



The film webs are connected together with an endless semi-flexible **tube** (11) along a seam line (10) in a form-fit manner, where the seam line runs in a longitudinal direction. The form-fit connection is formed by ultrasonic sealing, and a projection is separated at a region of the seam line. The endless film webs are run by **dispenser** rollers (1, 2), and the endless semi-flexible **tube** is wound on receiver rollers (13). The film webs consist of non-petrochemical plastic i.e. polylactic acid. An independent claim is also included for a device for manufacturing an endless semi-flexible **tube**.

54/206 © EPODOC / EPO
 PN - [US2009302059](#) A1 20091210
 PR - US20090462837
 20090810; US20050085370
 20050321
 AP - US20090462837 20090810
 DT - **
 CT - || R141 (A1)

[US4776495](#) A [];
[US5071017](#) A [];
[US5353963](#) A [];
[US5551599](#) A [];
[US5797519](#) A [];
[US6068162](#) A [];
[US6142340](#) A [];
[US7322491](#) B2 [];
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[US4211519](#) A [];
[US4515535](#) A [];
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[US4349133](#) A [];
[US5558507](#) A [];
[US5803312](#) A [];
[US2004168466](#) A1 [];
[US2216890](#) A [];
[US6637471](#) B2 [];
[US6003733](#) A [];
[US6325115](#) B1 []

- CCI - [B67D1/0054](#) ; [B67D1/0082](#) ;
[B67D1/0862](#) ; [B67D1/0864](#) ;
[B67D1/108](#)
- PA - LANCER PARTNERSHIP LTD
- TI - **Methods** and apparatus for
pumping and **dispensing**
- AB - **Methods** and apparatus for
pumping and **dispensing** are
provided in which a peristaltic
pump (16, 64) pumps liquid from
a **package** (12), and may be
integrated in a **dispenser** (10).
The peristaltic pump (64) is
adapted for improved accuracy,
cleaning, and maintenance. Also
provided are improved **tubes**
(18) for peristaltic pumping that
are coupled to self-
sealing **dispensing** valves (92,
104, 110, 120).

PN - [US2009266841](#) A1 20091029

PNFP - US8123078 B2 20120228

PR - US20090426418
20090420; US20080048367P
20080428

AP - US20090426418 20090420

DT - *; Rep

CT - || STSE (B2)
[US6485479](#) B1 20021126 [
] (FRESENIUS AG [DE])
[US2003077010](#) A1 20030424 [
] (SCHULZ WERNER [DK])
[US2005067432](#) A1 20050331 [
] (OREAL [FR])

- || R141 (A1)
[US2005067432](#) A1 [];
[US2003077010](#) A1 [];
[US6485479](#) B1 []

CCI - [B65D75/566](#) ; [B65D75/5811](#)

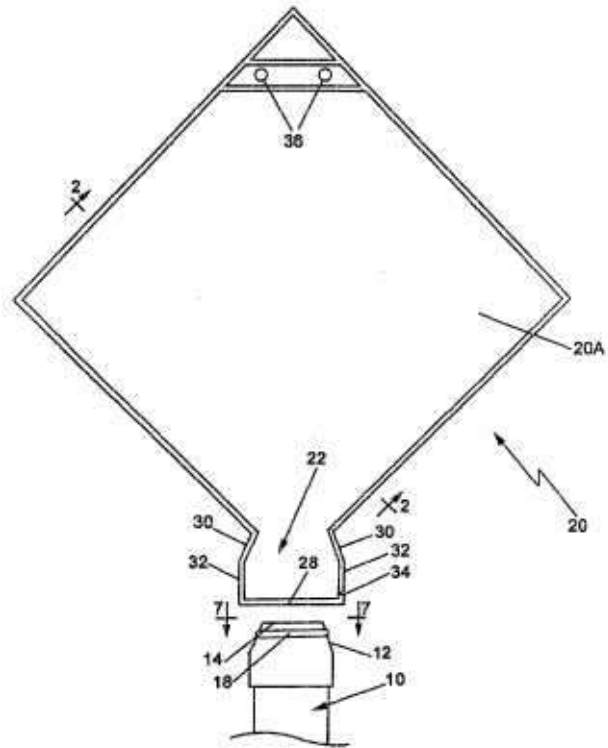
CCA - [B65D2575/565](#) ; [Y10S383/906](#)

PA - (A1)
FRES CO SYSTEM USA INC [US]

- (B2)
THOMAS JR JOHN S [US]; FRES CO
SYSTEM USA INC [US]

TI - (A1 B2)
FLEXIBLE **PACKAGES** FOR
CONNECTION TO A **DISPENSING**
SYSTEM AND CLAMPING DEVICES
FOR RELEASABLY CONNECTING
SUCH **PACKAGES** TO THE
INLET **TUBE** OF A **DISPENSING**
SYSTEM AND **METHODS**
OF **DISPENSING** FLOWABLE
MATERIALS FROM
FLEXIBLE **PACKAGES**

AB - (A1 B2)
A flexible **package** for holding a
flowable material therein
and **method** of use to enable the
flowable material to be
introduced into a **dispensing**
system via an inlet **tube**. The
flexible **package** has a body
portion and a projection which
forms a mouth for the **package**



and is in communication with the interior of the **package**. The projection is openable for receipt of the inlet **tube** and is arranged to be clamped into engagement with the inlet **tube** to form a fluid-tight interface by use of a clamping mechanism. The fluid-tight interface is releasable, when desired.

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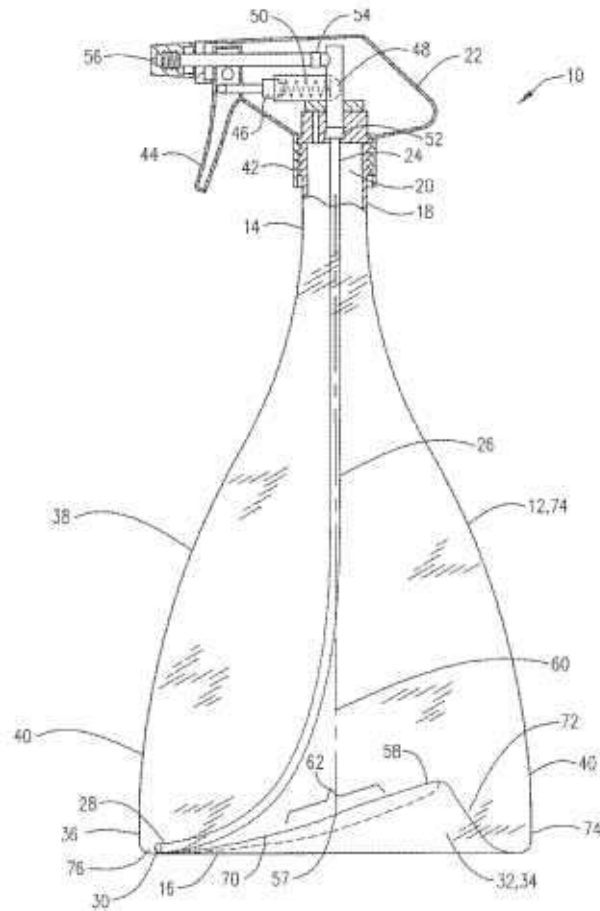
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PR - US20090472175
20090526; US20060494337
20060727

AP - US20090472175 20090526

DT - *; Rep

CT - || R141 (A1)
[US4247012](#) A 19810127 [] (ALBERGHINI ALFRED C);
[US6837404](#) B2 20050104 [] (TORRES ADAN E [US], et al);
[US4502607](#) A 19850305 [] (SZAJNA JOHN L [US]);
[US5195664](#) A 19930323 [] (RHEA STEVEN [US]);
[US5875940](#) A 19990302 [] (MAYFIELD TODD A [US]);
[US6213358](#) B1 20010410 [] (LIBIT JEFFREY M [US], et al);
[US2005087568](#) A1 20050428 [] (SILVAGGIO JOSEPH A [US]);
[US6059152](#) A 20000509 [] (MAYFIELD TODD A [US]);
[US5423460](#) A 19950613 [] (THOMANN GUENTER [DE]);
[US6398080](#) B1 20020604 [] (DE LAFORCADE VINCENT [FR]);
[US2004112922](#) A1 20040617 [] (OUELLETTE MARC [CA]);
[US6910604](#) B2 20050628 [] (GUGLIOTTI CARMINE [US], et al);
[US4276987](#) A 19810707 [] (MICHEL EDMOND);
[US4598831](#) A 19860708 [] (NAKAMURA YOSHINORI [JP], et



al);
[US4108324](#) A 19780822 [
] (KRISHNAKUMAR SUPPAYAN M,
 et al);
[US5934519](#) A 19990810 [] (KIM
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- CCI - [B05B11/0037](#) ; [B05B15/30](#)
- CCA - [B05B11/3011](#)
- TI - **Dispensing Package and Methods**
 of Using and Making
- AB - A container **package** capable
 of **dispensing** all of the liquid
 from within the container
 comprises a pump device having
 a **tube** extending through an
 aperture in the container neck
 wherein the mouth end of
 the **tube** is directed, upon
 insertion into the container
 body, to a desired bottom edge.
 The direction is provided by a
 grooved indentation in the upper
 portion of the container, or by a
 swan shape having a
 downwardly sloping surface in
 the upper portion of the
 container. Biasing insertion of
 the **tube** mouth to the front edge

of the bottle advantageously
allows a user to
completely **dispense** the contents
while directing their delivery to a
horizontal surface.

Interruption by user...

[SS 3] ..v

[EPODOC: SS 3]